

**BABCOCK  
UNIVERSITY**  
**A Seventh-day Adventist Institution of Higher Learning**  
**Ilishan-Remo**  
**Nigeria**

**2019-2023**  
**Undergraduate Bulletin**

## **CONTENTS**

Correspondence Directory	2
Meet the President/Vice Chancellor	4
Our Mission Statement	5
Content	6
Babcock University Programmes by Schools and Departments	
Academic Calendar	

### **WELCOME TO BABCOCK UNIVERSITY MANAGEMENT SERVICES DIVISION FINANCIAL ADMINISTRATION STUDENT DEVELOPMENT DIVISION ACADEMIC DIVISION**

BU Assessment Philosophy and Policy  
Academic Honesty  
Grievance Procedure  
General Graduation Requirements  
Education Support Services

### **COLLEGE, SCHOOLS AND DEPARTMENTS AT A GLANCE BENJAMIN S. CARSON COLLEGE OF HEALTH AND MEDICAL SCIENCES (School of Basic Medical Sciences, School of Basic Clinical Sciences, School of Clinical Sciences, School of Nursing, and School of Public and Allied Health.**

#### **1. SCHOOL OF BASIC MEDICAL SCIENCES DEPARTMENTS**

Department of Anatomy  
Department of Biochemistry  
Department of Nutrition and Dietetics  
Department of Physiology

#### **2. SCHOOL OF BASIC CLINICAL SCIENCES DEPARTMENTS**

Department of Chemical Pathology  
Department of Haematology and Immunology  
Department of Histopathology  
Department of Medical Microbiology  
Department of Pharmacology and Therapeutics

#### **3. SCHOOL OF CLINICAL SCIENCES DEPARTMENTS**

Department of Community Medicine  
Department of Internal Medicine  
Department of Paediatrics

Department of Obstetrics and Gynaecology  
Department of Surgery

#### **4. SCHOOL OF NURSING SCIENCE**

##### **DEPARTMENTS**

Department of Adult Health  
Department of Community Health  
Department of Maternal and Child Health  
Department of Psychiatry and Mental Health

#### **5. SCHOOL OF PUBLIC AND ALLIED HEALTH**

##### **DEPARTMENTS**

Department of Medical Laboratory Sciences  
Department of Public Health

#### **OTHER SCHOOLS**

#### **6. SCHOOL OF COMPUTING AND ENGINEERING SCIENCES**

##### **DEPARTMENTS**

Department of Computer Science  
Department of Information Technology  
Department of Software Engineering

#### **7. SCHOOL OF EDUCATION AND HUMANITIES**

##### **DEPARTMENTS**

Department of Education  
Department of History and International Studies  
Department of Languages and Literary Studies  
Department of Music and Creative Arts  
Department of Religious Studies

#### **8. SCHOOL OF LAW AND SECURITY STUDIES**

##### **DEPARTMENTS**

Department of International Law and Security Studies  
Department of Jurisprudence and Public Law  
Department of Private and Commercial Law

#### **9. SCHOOL OF MANAGEMENT SCIENCES**

##### **DEPARTMENTS**

Department of Accounting  
Department of Business Administration and Marketing  
Department of Finance  
Department of Information Resources Management

#### **10. SCHOOL OF SCIENCE AND TECHNOLOGY**

##### **DEPARTMENTS**

Department of Agriculture and Industrial Technology  
Department of Basic Sciences

Department of Microbiology

**11. VERONICA ADELEKE SCHOOL OF SOCIAL SCIENCES  
DEPARTMENTS**

Department of Economics

Department of Mass Communication

Department of Political Science and Public Administration

Department of Social Work

**UNIVERSITY GOVERNANCE PROFILE**

**BABCOCK UNIVERSITY BYE- LAW**



## CORRESPONDENCE DIRECTORY

Copies of this Bulletin and Departmental Student Handbook are available at the time of registration. Enquiries may be made to:

### **The Registrar**

**Babcock University, Ilishan Remo,  
Ogun State, NIGERIA**

WEBSITE: [www.babcock.edu.ng](http://www.babcock.edu.ng)

Phone Numbers: +(234) 8162835333, 8183277727, 8158628568, 8126456667

Website: [www.babcock.edu.ng](http://www.babcock.edu.ng)

E-mail(General): [registrar@babcock.edu.ng](mailto:registrar@babcock.edu.ng)

### **Location Address:**

Ilishan-Remo,  
Ogun State, Nigeria

## **Enquiries**

### **For:**

### **Address To:**

Academic Affairs.....Senior Vice President/DVC, Academics:	<a href="mailto:svp.acad@babcock.edu.ng">svp.acad@babcock.edu.ng</a>
Management Services Senior Vice President/DVC, Management Services:	<a href="mailto:svp.mgt@babcock.edu.ng">svp.mgt@babcock.edu.ng</a>
Accounts.....Deputy Bursar:	<a href="mailto:deputy.bursar@babcock.edu.ng">deputy.bursar@babcock.edu.ng</a>
Admissions ..... The Registrar:	<a href="mailto:registrar@babcock.edu.ng">registrar@babcock.edu.ng</a>
Alumni, Development & Strategy.....Director, Alumni Affairs:	<a href="mailto:alumni@babcock.edu.ng">alumni@babcock.edu.ng</a>
BU Press.....Director, BU Press:	<a href="mailto:bupress@babcock.edu.ng">bupress@babcock.edu.ng</a>
BU Ventures.....General Manager Ventures:	<a href="mailto:buventures@babcock.edu.ng">buventures@babcock.edu.ng</a>
Books & Publications.....Manager, University Bookshop:	<a href="mailto:bookshop.manager@babcock.edu.ng">bookshop.manager@babcock.edu.ng</a>
Chaplaincy.....University Pastor:	<a href="mailto:varsity.pastor@babcock.edu.ng">varsity.pastor@babcock.edu.ng</a>
Communication & Marketing .....Director, Comm. & Marketing:	<a href="mailto:cio@babcock.edu.ng">cio@babcock.edu.ng</a>
Community Relations.....Director, Ext. & Logistics and Protocol:	<a href="mailto:dir.ealp@babcock.edu.ng">dir.ealp@babcock.edu.ng</a>
Counseling Services.....Director, Student Support Centre:	<a href="mailto:dir.ssc@babcock.edu.ng">dir.ssc@babcock.edu.ng</a>
Employment Matters .....Director, Human Resources:	<a href="mailto:hr@babcock.edu.ng">hr@babcock.edu.ng</a>
Endowments & Trusts.....Bursar:	<a href="mailto:vpfa@babcock.edu.ng">vpfa@babcock.edu.ng</a>
Evaluation of Certificates.....The Registrar:	<a href="mailto:registrar@babcock.edu.ng">registrar@babcock.edu.ng</a>
Financial Assistance.....The Bursar:	<a href="mailto:vpfa@babcock.edu.ng">vpfa@babcock.edu.ng</a>
Food Services.....Director of Food Services:	<a href="mailto:dir.fs@babcock.edu.ng">dir.fs@babcock.edu.ng</a>
General Business Matters.....The Bursar:	<a href="mailto:vpfa@babcock.edu.ng">vpfa@babcock.edu.ng</a>
General University Interest.....The Vice-Chancellor:	<a href="mailto:vc@babcock.edu.ng">vc@babcock.edu.ng</a>
Iperu Campus.....Provost, Iperu Campus:	<a href="mailto:Provost.iperu@babcock.edu.ng">Provost.iperu@babcock.edu.ng</a>
Legal Services.....Director, Legal Services:	<a href="mailto:legalunit@babcock.edu.ng">legalunit@babcock.edu.ng</a>
Office of Institutional Effectiveness.....Associate Vice President, IE:	<a href="mailto:oie@babcock.edu.ng">oie@babcock.edu.ng</a>
Placement Service.....The Registrar:	<a href="mailto:registrar@babcock.edu.ng">registrar@babcock.edu.ng</a>
Research Innovation and International Cooperation.....RIIC:	<a href="mailto:riic@babcock.edu.ng">riic@babcock.edu.ng</a>
School of Science and Technology.....Dean, SAT:	<a href="mailto:dean.sat@babcock.edu.ng">dean.sat@babcock.edu.ng</a>

School of Management Sciences.....	Dean, SMS:	<a href="mailto:dean.sms@babcock.edu.ng">dean.sms@babcock.edu.ng</a>
Veronica Adeleke School of Social Sciences .....	Dean, VASSS:	<a href="mailto:dean.vasss@babcock.edu.ng">dean.vasss@babcock.edu.ng</a>
School of Computing and Engineering Science.....	Dean, CES:	<a href="mailto:dean.sces@babcock.edu.ng">dean.sces@babcock.edu.ng</a>
School of Education & Humanities.....	Dean, EAH:	<a href="mailto:dean.eah@babcock.edu.ng">dean.eah@babcock.edu.ng</a>
Benjamin S. Carson College of Health & Medical Sciences...	Provost:	<a href="mailto:provost.buchms@babcock.edu.ng">provost.buchms@babcock.edu.ng</a>
School of Law and Security Studies.....	Dean, LSS:	<a href="mailto:dean.lss@babcock.edu.ng">dean.lss@babcock.edu.ng</a>
School of Nursing.....	Dean, Nursing:	<a href="mailto:dean.son@babcock.edu.ng">dean.son@babcock.edu.ng</a>
School of Public and Allied Health.....	Dean, PAH:	<a href="mailto:dean.sph@babcock.edu.ng">dean.sph@babcock.edu.ng</a>
College of Postgraduate Studies.....	Provost, Postgraduate Studies:	<a href="mailto:provost.pgs@babcock.edu.ng">provost.pgs@babcock.edu.ng</a>
Student Support Services.....	Dir. Stud. Supp. Centre:	<a href="mailto:dir.ssc@babcock.edu.ng">dir.ssc@babcock.edu.ng</a>
Student Finance.....	The Bursar:	<a href="mailto:vpfa@babcock.edu.ng">vpfa@babcock.edu.ng</a>
Student Welfare and Housing.....	Vice-President, Student Development:	<a href="mailto:vpsd@babcock.edu.ng">vpsd@babcock.edu.ng</a>
Teacher Qualification.....	Senior Vice President, Academics:	<a href="mailto:svp.acad@babcock.edu.ng">svp.acad@babcock.edu.ng</a>
Transcripts and Records.....	The Registrar:	<a href="mailto:registrar@babcock.edu.ng">registrar@babcock.edu.ng</a>
University High School.....	Principal:	<a href="mailto:principal@buhs.babcock.edu.ng">principal@buhs.babcock.edu.ng</a>
University Staff School.....	HeadTeacher:	<a href="mailto:sht.staffschool@babcock.edu.ng">sht.staffschool@babcock.edu.ng</a>

**MEET THE PRESIDENT/VICE-CHANCELLOR:  
Towards Our Educational High Calling in Christ**



***Professor Ademola S. TAYO***  
***President/ Vice Chancellor***

This academic bulletin is a rendition of Babcock University programmes - all of which is designed to respond to the demands, not just of the present, but also of the future. Its orientation is ennobled by its dynamism. This dynamism opens up whole new vistas for students in the different fields they choose, whether they plan to work in the public, private, or nonprofit sectors.

Undergirding the philosophy of these academic programmes is the innocuous but deliberate strategy that finds expression in an educational system based, not only on general Christian comprehension of reality and value but one that equally reflects the distinctive Adventist form of education. Babcock University prioritizes a pragmatic and ecclesiastical understanding of issues of our times and develops practices in harmony with those foundational understandings.

This bulletin primarily provides users with academic information and the principles, processes and practices that underpin them. The mantra that resonates with Babcock University programs since her establishment in 1999 is excellence – a quality of prestige and power associated with pristine nobility and pre-eminence.

The University Senate has responsibility for and authority over all academic content and information contained in this Bulletin in line with national and international regulatory authorities to which Babcock University accedes to. Every step of the University's educational process, from admission through graduation, receives appropriate approval by University officials and academic committee. The University, therefore, reserves the right to change the requirements and regulations contained in this bulletin and to determine whether a student has satisfactorily met its requirements for admission or graduation, and to reject any applicant for any reason the University determines to be material to the applicant's qualifications to pursue higher education.

Babcock University's reputation for whole person education, its incredible history of being the pioneer private university in Nigeria, and the torchbearer of quality from this sector, its commitment to building standards and raising the bar of excellence could only have been possible because of her core values that aggregates integrity, transparency, team spirit, servant-leadership, intellectual freedom and responsibilities and of course, Adventist heritage

Babcock University is readily associated with student-centered Christian community providing an academically challenging education that empowers people of diverse backgrounds to engage and transform the world with disciplined intelligence, compassion, courage and faith. This gave rise to our strap line\*\*\*\* the future is bright.

The beautiful campus reflects a long, rich history that dates back to sixty years ago. Its student body is diverse and unique, and the University continues on a journey of constant improvement, while assuring students who choose to learn and grow in this extraordinarily ordained institution that they are receiving absolutely the best educational experience possible.

I welcome you on board this train of academic and professional journey. As you apply and tailor your studies along the stipulations in this bulletin, be assured of a training that geared to train the whole person, adequate, responsive and relevant to the emerging trends in the labour market.....the future is bright!!!!

## **WELCOME TO BABCOCK!**

### **OUR PHILOSOPHY**

Babcock University's philosophy is anchored on the harmonious development of the intellectual, physical, psycho- social and spiritual potentials of our students, inspiring stable and noble character needed for effective leadership and service in the society. While upholding the importance of the highest academic standards, the uniqueness of Babcock University is to be found in the pursuance of the Seventh-day Adventist philosophy of education. The reason for the existence of a Church-operated institution must be sought in that uniqueness - a specificity of utmost excellence in the achievement of preset high morality-based spiritually powered goals. Its value must be judged by the contribution it makes directly through its community of scholars toward the fulfillment of the mission of its sponsoring organization. It is our belief that if God's Word were studied as it should be, men and women would have a nobility of character and a stability of purpose that is so much needed in our society today. Babcock University is committed to providing an educational environment that fosters these ideals.

### **OUR VISION**

A first-class Seventh-day Adventist institution, building servant leaders for a better world.

### **OUR MISSION**

Building leadership through Christian education; transforming lives, impacting society for positive change.

To achieve the mission, we are committed to:

- Achieving excellence in our teaching, research programme and service delivery
- Imparting quality Christian education
- Instilling Christ-like character to the members of our Community

### **OUR CORE VALUES**

- |                               |                 |
|-------------------------------|-----------------|
| • Excellence                  | -Our Culture    |
| • Integrity                   | -Our Promise    |
| • Accountability              | -Our Moral      |
| • Team Spirit                 | -Our Strength   |
| • Servant Leadership          | -Our Dignity    |
| • Autonomy and Responsibility | -Our Passion    |
| • Adventist Heritage          | -Our Commitment |

### **BU ANTHEM**

-Hail Babcock, God's own university  
Built on the power of His word  
Knowledge and truth, service to God and man  
Building a future for the youth  
Holistic education, the vision is still aflame

Mental, physical, social, spiritual – Babcock is it!  
Hail Babcock, God's own university  
Good life here, and for ever more!!

## **OUR GOALS AND OBJECTIVES**

The traditional emphasis of the Seventh-day Adventist philosophy of education is on the balanced and harmonious development of the whole person in his physical, social and spiritual environment. Specific goals and objectives of Babcock University are, therefore, classified as follows:

### **Intellectual**

- a) Provides a high quality education in the arts, sciences, as well as certain professional and pre-professional programmes for students who desire excellent educational programme that guarantees the development of the whole person in a conducive learning environment.
- b) Creates a milieu that attracts high quality students and faculty who can study together to understand and appreciate the knowledge and culture that have been passed down from earlier generations, while seeking new knowledge and understanding from on-going research;
- c) Fosters critical thinking, problem-solving skills, creativity and self-expression, while striving to apply the wisdom of the past and the discoveries of the present to the challenges of a rapidly changing world, and challenging students to be original thinkers rather than mere reflectors of other people's thoughts;

### **Occupational**

The aim to educate the total person requires that in addition to acquiring a liberal education, students should develop a competence by which they may become economically independent. A balanced course should imbue them with ambition for continual improvement through study and practice. It should also encourage each student to prepare for dynamic, spiritually-inspired life of service for humanity within whatever secular occupations chosen. In line with this understanding, therefore, Babcock University would aim to:

- a) Prepare quality leadership for the church in the fulfillment of its divinely inspired global mission
- b) Ensure excellent preparation for students to assume careers in the professions, in industry, in public service, in business, in the arts, in various trades, et cetera.
- c) Provide opportunities for the practice of certain vocational skills as part of the educational process and as income earner to help the student defray a large share of educational expenses.
- d) Help the student develop manual skills as an avenue for recreation and profitable use of time, as a means of understanding better the dignity of labour, and as contributory toward economic security.

### **Aesthetic**

Art affords an area of experience in which emotion can be objectified or externalized and within which feeling may blend with cognition. Creative abilities in man are regarded as gifts from the original Creator that contribute profoundly to a harmonious personal development when exercised intelligently. Because the senses are avenues to learning of all kinds, they may become the gateways not only to ennoblement but also to degradation of character. Therefore, the highest standards for the arts must be upheld (in music, literature, painting, et cetera). The maintenance of such standards may be expected to encourage a growing distaste for the grotesque, the clumsy, the discordant, and the ugly. Escapist, tawdry, mean, vulgar, obscene, sense-benumbing, or nerve-scarring art forms or entertainments are incompatible with the soteriological aims of Christian

education. Accordingly, Babcock University would aim to:

- a) Teach the students an appreciation of natural beauty as a portrayal of God's activity in the world
- b) Help the student develop a healthy acquaintance with the fine arts and encourage him to enlarge his capacity to enjoy and to create works of artistic value
- c) Impress upon the students the cardinal importance for man's survival on the earth, of a healthy respect for nature, the environment and the habitat.

### **Physical**

- a) Encourage students to know themselves and to consider their relationship with their Creator;
- b) Promote in students an awareness of their physical needs and encourage them to maintain a balance between their academic pursuits and the cultivation of their physical well-being;
- c) Sensitize students as to the importance of care of personal appearance and grooming with emphasis on natural rather than artificial beauty, simplicity and modesty in dress and diet
- d) Stimulate the student to appreciate the value and dignity of manual as well as other types of honest labour.

### **Social**

- a) Help students learn effective communication and human-relations' skills that cross the boundaries of disciplines, cultures and personal philosophies;
- b) Help students develop into people who can become effective members of social institutions, such as community, church, and family, and who will take an active role in contemporary society, seeking to solve its problems and to improve the quality of life for all people;
- c) Impress upon the students a sense of good citizenship, patriotism and loyalty to the nation and every legitimate action of government which is scripturally regarded as a divinely approved means for the maintenance of order and for the protection of persons and property.
- d) Inculcate in the students a high sense of justice that becomes indignant at inequity and prompts a willingness to sacrifice self in order to bring about rectification.

### **Spiritual**

In the realization that religion is more than a struggle against immorality or a quest for naked ethics, and is founded on the experience of awe and wonder in the presence of God and that the sole good required of man by the Creator is to "do justice, love kindness and to walk humbly with your God" (Micah 6:8), Babcock University would aim to:

- a) Develop genuine Christian character motivated by love and controlled by steadfast principle, thus preparing the individual for self-government and self-discipline.
- b) Nurture spiritual sensitivity and awareness
- c) Teach and encourage internalization of Christian doctrine and practice as believed and taught by Seventh-day Adventists
- d) Foster understanding and respect for those of other religious and intellectual persuasions.
- e) Make religion worship, faith and participation an integrating and unifying force in learning.
- f) Provide an environment in which students are exposed to Seventh-day Adventist standards of modesty and moral behaviour by precept and example
- g) Inspire commitment to the global mission of human salvation

The University would offer a variety of programs leading to Diplomas, Undergraduate and Post-graduate degrees in selected programmes pertinent to the felt and real developmental needs of Nigeria and countries of the ECOWAS sub-region and beyond. Courses are taught according to the requirements intrinsic to the subject matter and the professional standards of the lecturers.



## **ACHIEVEMENT OF OBJECTIVES**

The University, like its prototype, will be a sub-regional tertiary institution. By Seventh-day Adventist educational principles and practice in fulfillment of its global mission of selfless service to mankind, admissions to its institutions are granted irrespective of race, colour, national or ethnic origins, or sex. No particular religious or political affiliation is, therefore, required for admission, in as much as the qualified applicant undertakes to abide by the rules and regulations governing membership of the university community. This statement is, however, without prejudice to the proprietorship and leadership of the institution, since no organization, large or small, secular or religious, educational or social, professional or academic, governmental or non-governmental, global or local will long endure in the fulfillment of its purpose unless its leaders are in harmony with its basic philosophy and committed to the attainment of its objectives. The international nature and genius of Seventh-day Adventism demand that its institutions be committed in philosophy and practice to the doctrine of equal human rights. This is held as a Bible doctrine and not merely as a matter of public policy. Its mission is to "...every tribe and tongue and people and nation" (Revelation 5:9). Positions of leadership on all levels of the Church, within all of its organizations and institutions, must be open to all on the basis of qualifications without regard to race, colour, ethnic background, country of origin, age, or sex. Seventh-day Adventist institutions of learning seek to achieve their aims first by the persuasiveness of - knowledge, insight, reason, and serious involvement in the school program; second, through the influence of example in the lives of the faculty and the majority of students; and third, by rules and regulations which require at least minimal conformity by all students.

## **OUR CHRISTIAN HERITAGE**

The great education experience that is now Babcock University (BU) has its roots in the Adventist College of West Africa (ACWA), established on September 17, 1959 with an initial intake of seven ministerial students. The university is fully owned and operated by the Seventh-day Adventist (SDA) Church, and registered under the laws of the Federal Republic of Nigeria to operate as a private university and, as such, does not receive government grants. As a senior college, the first set of Bachelor of Arts degrees in Theology was awarded under its own name in 1966. ACWA made history in 1975 by becoming the premier institution to sign and operate an affiliation agreement with Andrews University, Berrien Springs, Michigan, USA. This relationship enabled it to train students and award Bachelor's degrees from Andrews University, primarily in Biology, Business Administration, Theology, and Religion with minors in Biblical Languages, Biology, Business Administration, English, History, Religion and Secretarial Studies. Also, in 1975, the name Adventist Seminary of West Africa (ASWA) was adopted in response to the dynamics of its socio-political environment. The four B.A. programs were run until 1983 when restricting local factors necessitated the phasing out of the B.A. programs in Biology and Business Administration. In 1988, ASWA reached the second milestone in its academic history in an affiliation agreement with the Seventh-day Adventist Theological Seminary of Andrews University which authorized the college to offer the M.A. in Pastoral Ministry (by extension).

The M.A. Religion program was later added in 1990. Both programs were upgraded from part-time to resident status in 1992, but later reverted to summer sessions again in 1997 due to the unsuccessful search for qualified full-time teaching staff. A stop-gap measure was,



meanwhile, taken to afford national recognition for its status and programs by way of the institution's request for a local affiliation agreement with the University of Ibadan (UI) under the name "Babcock College". The request was still clearing the tedious hurdles of UI administrative process when BU got its own accreditation on April 20, 1999. A major bridge crossed by the institution in its quest for a charter as Babcock University was the accreditation visit by a team from the National Universities Commission (NUC), representing government, the first of its kind ever in the history of the nation. This was in response to the application of the Seventh-day Adventist Church in Nigeria for the establishment of a private tertiary institution with diverse programs ranging from the Arts to various science disciplines, technology and medicine. The Certificate of Registration No. 002 was handed over to the President of the Africa-Indian Ocean Division of Seventh-day Adventists, pioneer BU Chancellor and Chairman of the University Council, Pastor Luka T. Daniel, at a May 10, 1999 public ceremony in the Conference Hall of the National Universities Commission in Abuja, presided over by the Honorable Minister of Education, Sam Olaiya Oni.

The University was formally inaugurated by the proprietors on June 17, 1999, in the presence of various ecclesiastical, governmental, diplomatic corps and local community leaders and dignitaries, including the Minister of Education, the Permanent Secretary in the Ministry of Education, Executive Secretary of the National Universities Commission, Registrar of the Joint Admissions & Matriculations Board, Secretary-General of the National Council on Education. Babcock University finally opened its gates to welcome the premier intake of 1006 students on September 13, 1999. Prof. Jan Paulsen, General Conference (GC) President and world leader of Seventh-day Adventist Church, in his official capacity as visitor to the University presided over the maiden matriculations ceremony on January 28, 2000.

## **OUR DEVELOPMENT FOCUS**

Within the last few years, Babcock has witnessed a tremendous growth in both physical and intellectual advancement. This is reflected in different areas, especially in the proactive efforts to ensure a 100 % residency for our student to create the enabling conducive environment for academic learning.

## **STUDENT HOSTELS**

There are 20 halls of residence on both the Ilishan and Iperu campuses of the University. Each is equipped with adequate facilities for the comfort and convenience of students.

## **BABCOCK UNIVERSITY TEACHING HOSPITAL**

The ultra-modern Babcock University Teaching Hospital (BUTH) is now a household name in the area of medical achievements. BUTH is equipped with modern medical facilities for the diagnosis and treatment of various medical issues. The Teaching Hospital houses a cardiac center for the treatment of heart-related issues, including minor and major heart surgeries. Over 300 open heart surgeries with 100 percent success rate have been carried out at the cardiac center since its inception in 2015. It also has a well-equipped radio diagnostic laboratory, and a 140-bed facility. Besides, the teaching hospital boasts of 600-seater auditorium and Medical College complex with research and teaching laboratories, skill acquisition and administrative offices for the Benjamin S. Carson College of Health and Medical Sciences.

## **LAZ OTTI MEMEORIAL LIBRARY**

On the intellectual front, the University has made significant advancements. At no other place is this more pronounced than in the Laz Otti Memorial Library which is named after the father of the donor, Dr. Alex Otti, a former member of the University's governing council. The ultra-modern library facility is to enhance research and learning in Babcock University. It was commissioned in May 2014.

### **BABCOCK BUSINESS SCHOOL BUILDING**

At the peak of Babcock's new drive for growth stands the N900 (Nine Hundred) million project, the Babcock Business School Building which was rebranded the School of Management and Social Sciences, to reposition it for a cutting-edge advantage in the business world.

The Babcock Business School building features smart, air-conditioned classrooms as well as seminar rooms and lecture theatres. It represents the new face of Babcock's structural engineering advancement. The fountain, which comprises a collection of 17 small outlets for water and light, is one of the star attractions of the plaza. The model ensures that the top remains dry when not in use. More interesting is the fact that the fountains refract lights and form a beautiful spray effect at night. The middle square has its spray as high as three metres whilst the others are two and one metre each. The water then flows out and the cycle continues. It was completed in June 2012.

### **BABCOCK SPORTS COMPLEX**

The University's Parents Consultative Forum, a viable development partner built an over 10,000 capacity sports complex for the University on its main campus in 2009. The complex which is of international standard include indoor sports pavilion, changing and rest rooms, offices as well as a fitness center complete with equipment. The complex serves the university's needs beyond sports. In February 15, 2009, it was used for the global satellite evangelism programme. Other activities include graduation ceremonies, week of spiritual emphasis and career week for graduating students.

### **BABCOCK INVESTMENT GROUP (BIG)**

The University's commercial arm, Babcock Investment Group (BIG), has come a long way from a miniature structure to becoming an imposing edifice - the Babcock Superstore. This new shopping outlet will not only enhance the department's revenue but also improve customer satisfaction for the more discerning shopper. Beyond quality, its pricing is also very competitive. The goal is to create a pricing policy that will be user friendly and a little lower than the market price outside the campus. The unit also has a retail outlet for grocery and basic provisions, and Chinese restaurant near the Babcock University Students Association's (BUSA) House. Other ventures under BIG are: Babcock Guest House, Babcock Block Industry, Babcock Water Industry, Babcock Bakery and Babcock Bookshop.

### **BABCOCK MICROFINANCE BANK**

The University's Microfinance Bank is one of the subsidiaries of the Babcock Investment Group, BIG. It is meant to enhance the institutional drive for shoring up its revenue base through the development of small and medium scale entrepreneurship.

### **BABCOCK UNIVERSITY CENTRE FOR EXECUTIVE DEVELOPMENT**

Babcock University Centre for Executive Development is another addition to Babcock's

strategic development. It handles training, top-up and executive programmes, conversion courses, seminars and workshops for institutions, organisations and individuals. Recently, it expanded its network to include some Executive Postgraduate Programmes in conjunction with the Academic Departments.

## **OUR ACCREDITATION**

Babcock University, by virtue of the Decree 9 of 1993 and the Certificate of Registration as a Private University issued by the Government of the Federal Republic of Nigeria (1999), is authorized to provide facilities for learning, confer degrees, conduct research and to provide whole-person education in such branches of knowledge as the University may desire upon approval by the National Universities Commission (NUC). The University, by the recommendation of the International Board of Education of the General Conference of the Seventh-day Adventists (IBE), is also accredited by the Adventist Accrediting Association (AAA) as a unit of its worldwide network of Universities and Colleges established to fulfill the mission of education with commitment to excellence and the development of godly character. Babcock University is also a registered member of the Association of African Universities (AAU) and in the process of registration with the Association of Commonwealth Universities. Various programmes are also being accredited by relevant professional bodies like the Institute of Chartered Accountants of Nigeria (ICAN), Chartered Institute of Bankers of Nigeria (CIBN), Institute of Chartered Secretaries and Administrators of Nigeria (ICSAN), the Nursing and Midwifery Council of Nigeria (NMCN), Advertising Practitioners' Council of Nigeria (APCON), Teachers' Registration Council of Nigeria (TRCN), Medical and Dental Council of Nigeria (MDCN), Medical Laboratory Science Council of Nigeria (MLSCN), Council of Legal Education (CLE) among many others.

## MANAGEMENT SERVICES



***Professor Sunday A. OWOLABI***  
***Senior Vice President/ Deputy Vice Chancellor, Management Services***

The *Division of Management Services* supports, encourages and promotes the University's mission and vision through interactions with students, staff, alumni, friends, parents, corporate bodies, government and other stakeholders. Our goal is to develop appropriate strategies that will engage and connect these constituents with the University for Student Enrollment, to garner support and secure resources that will enhance Babcock University's unique place in higher education in Africa.

### **Vision**

Excellent leadership and assistance by increasing public understanding and support for BU through stewardship, marketing, friends and fundraising.

### **Mission**

To be the public voice of the university in the promotion and presentation of our needs to students, alumni, staff, constituency and the global community.

### **OFFICE DIVISION**

Division of Management Services comprises the following departments and units:

- **Advancement:** The development office coordinates and generates philanthropic support for the development of the university. In addition, the unit maintains strong and vibrant relationship with the alumni members.

- **Alumni:** The office strives to create a welcoming atmosphere for communication network, one that keeps our alumni, friends and stakeholders connected for greater achievement. The Babcock University alumni is a community, which offers a sense of belonging. The office invites and welcomes alumni and undergraduate in connecting with fellow classmates through reunion activities and alumni events. The department solicits supports for Babcock's legacy of innovative teaching, research and mentorship through various information communication technologies. We engage our alumni and keep them connected and updated with latest information. We facilitate the growth of professional networks and personal relationships through engagement activities.
- **Strategy:** The department provides leadership for strategic planning as well as supports the university's communication and marketing efforts. In addition, this unit provides strategic and financial guidelines as well as actionable recommendations to the University.
- **Babcock University Campus Landscape and Environmental Amelioration Network (BUCLEAN):** The unit is saddled with the responsibility of managing and maintaining the university's eco system, creating the enabling and welcoming environment for learning and abode.  
Babcock University offers its students and guests an enthralling environment in which to study, and have a holiday. Its classic and beautiful buildings and landscapes are some of the most engaging sites you can find on a university campus in Nigeria. The fascinating history, unique architecture and stunning grounds of the University are made possible by the sheer commitment of the BUCLEAN.
- **Hope FM:** This is the university campus radio by which education, information, and enlightenment are provided to the immediate communities to build capacity and ensure their participation in rural development. The radio is run by the University but managed by the Division of Management Services. The radio is also accessible through internet. It features a wide range of different programs that broadcast from the University's oldest school building – School of Education and Humanities. The programs on offer range from music shows, chat shows, plenty of news, religious shows and interviews. The Hope FM 89.1 is manned mainly by students.
- **Information Communication Technology (ICT):** This department is the hub of the University's information technology, and it provides the expertise that ensures seamless interconnectivity between the University community and the outside world. The department offers several services for staff, students and academics. The department has a central IT Service Desk that provides user support for staff and students. It works to keep the University's IT safe and delivers IT services and projects to support Babcock University mission as a leading research and teaching institution.
- **Fire Service:** The department plays a significant role in ensuring campus safety of lives and properties. The University has a duty to provide suitable and sufficient training to all its employees at periodic intervals. This is a key function of the Division of Management Services. The effects of fire can be devastating, not only in terms of lives lost and injuries, but also in terms of damage to equipment, property, the environment, business interests and reputation. The Fire Safety department ensures that good management of fire safety is essential to ensure that fires are unlikely to happen; and if fire outbreaks occur, the department ensures they are promptly, efficiently and safely contained.
- **Marketing Department:** The department is saddled with the responsibility of overseeing the marketing needs of the university to ensure effective and efficient engagement with potential

students and parents on information concerning enrollment. The department provides expertise to the University; generate new approaches, devices and materials for commercial success on student enrolment. The department also facilitates and coordinates the relevant resources to develop the most promising into attractive commercial advantage.

- **Babcock Traffic and Safety Management Authority:** This department ensures the enforcement of all existing University rules in order to maintain free flow of vehicular and pedestrian movements on campus. It also gives directional service to visitors to the campus.
- **WAD Media Centre:** This Centre promotes the full effective use of the broadcast media for educational, social, spiritual and informational purposes in tandem with the philosophy of the Adventist heritage. It also offers learning activities for students and faculty for the purpose of developing their communication, analytical, integrative and collaborative skills for meaningful lifelong learning. The media centre operates in line with the Adventist Philosophy of education, which aims at building the whole being by focusing on the physical, mental, social and spiritual wellbeing of the individual.

## **FINANCIAL ADMINISTRATION**



***Folorunso I. AKANDE, FCIB, FCA, PhD***  
***Vice President, Financial Administration/Bursar***

Babcock University is financed in part by the fees paid by students, but also by grants and gifts from the Seventh-day Adventist Church organizations and individuals throughout the world. The cost is further brought within reach of the student by the sacrifice of the missionary-spirited academic and non-academic staff operating the practice of strict economy and transparent financial management with which Adventist institutions are known all over the world.

The statements of financial policy contained in this section are part of the contract which every student enters into with the University at the time of enrolment. It is, therefore, of the utmost importance for every student to give careful consideration to these policies and ensure that the terms specified are met.

The University, through actions of the Board of Trustees or duly authorized administrative officers, reserves the right to change the financial policies published in this bulletin at any time it becomes necessary to do so. Such changes as may be formally communicated to students and/or guardians shall be equally binding or, if necessary, supersede the statements published in this bulletin.

### **HOW TO PLAN**

Students should plan their financial arrangements for an entire school year (two semesters) beginning late August and lasting to late April. Fees are payable before resumption at each semester or session. Graduate students (Religious Studies) should make advance financial

arrangements for the duration of their intended programme of study.

### **WHAT IT COSTS**

Students have two types of expenses while attending the university: - educational (tuition, books, and fees) and living (housing and meals). The university makes every effort to maintain the costs published in this bulletin. It reserves the right, however, to make changes as necessitated by unexpected increases in living costs and inadvertent errors. Such changes are announced in advance of the semester in which they become effective. Students are, therefore, encouraged to regularly visit Babcock website to update themselves with current financial information.

### **BANKING SERVICES**

The university provides an on-line banking service through some bank branches located in the campus. Students are advised to open a personal bank account to minimize risks involved with carrying cash and to facilitate monetary transfers from far and near. The banks now on campus where students can open personal accounts include: WEMA Bank PLC, First Bank Nig. PLC, Zenith Bank PLC, among others.

### **REMITTANCES**

The following banks are most relevant GT Bank, WEMA Bank PLC, First Bank Nig. PLC and Zenith Bank PLC.

### **TEXTBOOKS**

Cost of text books and supplies are not included in the estimates because they do not form part of fees. Each student is, however, advised to make a provision equal or superior to an amount from **N30, 000.00 to N40,000.00 per semester**, depending on the discipline. All text books and supplies obtainable from the Babcock University must be paid for in cash unless the student has made prior arrangements on his/her account.

### **AUDITING**

The tuition charge for auditing a class is the same as for regular tuition.

### **COURSES DROPPED**

Where it becomes necessary for a student to drop out during the Semester, financial adjustment will be made as follows:

#### **Tuition Refunds: (1)**

Refunds will be made only for withdrawals fully registered before the end of the fourth week. (2) Charges will be prorated on the basis of the actual number of days school had been in session before completion of withdrawal procedures. Board and Room refunds charges will be prorated on the basis of the actual number of days that the school has been in session until the time that the student has properly checked out and returned the room key.

In the case of serious illness, accident, or other factors beyond the student's control which may cause a withdrawal from classes, charges may be prorated over the entire semester. All students should note that provisions for refunds do not apply to withdrawals consequent upon a disciplinary action or abscondment.



## **SCHEDULE OF PAYMENTS**

The full cost of tuition and general fees are normally payable at registration. It is in the best interest of each student, however, to plan for the entire school year (two semesters) as a unit, making sure that funds are available to carry the individual through his/her intended period of study. No student will be allowed to register who fails to meet full payment requirement. Sponsored students are expected to make acceptable arrangements to have their financial obligations to the university met before registration.

## **PAYMENT PLANS**

### **Tuition Guarantee Plan -Undergraduate Student Cash Plan.**

Students should pay in cash the full undergraduate program estimated charges (tuition, room, board, books, and fees) on or before first semester registration of the first year. By taking advantage of this plan, tuition is 'locked in' at the same rate for the entire undergraduate program regardless of any general changes within four years.

## **REMITTANCES**

All remittances could be made on-line to BABCOCK UNIVERSITY through e-transact at any of the branches of UBA PLC, Intercontinental Bank PLC, WEMA Bank PLC, Zenith Bank PLC, or any other duly authorized banks with certified tellers from Babcock University Bursary/debit cards as may be advised. Official University receipts are issued by the cashier against all certified payments.

## **FAMILY DISCOUNTS**

A discount of 5% on the net portion of tuition, and residential fees (after allowance for scholarships, bursaries and other discounts) will be allowed to each full-time student who is a dependent child of a family having two or more children enrolled full-time at Babcock University concurrently. To qualify as dependent, the student should not be married, not in a defacto relationship, not in receipt of regular remuneration, and under the age of 21 at the commencement of his/her course of studies at Babcock.

## **HEALTH SERVICE CHARGES**

Routine treatments, minor surgery, prescription medications, etc., are covered by the student accident/medical insurance up to the accumulative cost of N25,000 per session. All charges beyond this ceiling must be paid for by the student. It is the responsibility of all married students to meet the medical care and expenses of their family members.

## **FINANCIAL ASSISTANCE: SCHOLARSHIPS, BURSARIES &GRANTS**

A limited number of financial aid programs are available to deserving students. Awards and financial assistance vary according to the student's financial need and the availability of funds. These funds have generally been set up by friends of the university, including former staff members and alumni. All needy students may apply for financial aid. However, preference will be given to those with superior standard in their citizenship and academic performance, and those in their junior or senior years. The nature of assistance to be given will vary. Contact the Academic Office for details!

To qualify for scholarships and bursaries, students must be full-time registered students of Babcock University and meet the specific requirements listed under each award. Students will

not be allowed to combine scholarships or bursary awards. Most scholarships have a closing date. Late applications will not, normally, therefore, be considered. An application form must be completed for all scholarships and bursaries except those in which nominations are made by different administrative bodies. All scholarships and bursaries are granted on the condition that a student undertakes a full academic load of study each semester (normally 16 credits points). The continuance of all scholarships and bursaries is contingent upon satisfactory academic progress, citizenship record, and class attendance each semester. Scholarships and bursaries cannot be redeemed for cash, in whole or in part. Any scholarship or bursary recipient who voluntarily drops out, or, is subjected to disciplinary measures within the semester will be required to refund the cost of studies incurred for that semester in consideration that the award is deemed to have been relinquished.

Application forms for financial assistance, bursaries and scholarships of any kind are available in the Office of the Registrar. Some of them are listed below

- HERITAGE BURSARY AWARDS
- ILISHAN-REMO INDIGENES' TUITION SCHOLARSHIPS
- OLUSOLA AKANBI MEMORIAL COMPUTER SCIENCE AWARD
- SPRINGTIME DEVELOPMENT FOUNDATION SCHOLARSHIPS
- SULAIMON DAUDA MEMORIAL NURSING AWARD
- VERONICA ADELEKE SOCIAL SCIENCE FEMALE EXCELLENCE AWARDS
- WOMEN'S MINISTRIES SCHOLARSHIPS

### **WORK STUDY SCHOLARSHIPS**

In harmony with the general objectives of the university, students are offered varied employment opportunities on campus. Many students are able to defray a good portion of their expenses in the campus work programme. Current policy provides for a student to earn up to 20% of his or her tuition for a full involvement in the work-study program during the school year. Part-time employment opportunities are available at the beginning of the school year and are made to suit students' class schedules and needs. The employing departments include the Bakery, Peanut Butter factory, Wood workshop, Food Services, offices, Farm and other service areas.

Earnings may be credited to the student's account or withdrawn monthly according to policy.

### **Work Responsibility:**

Resident students are expected to work 10 to 20 hours weekly. Work assignments are normally made at the beginning of each semester. Students are expected to meet their work appointments punctually. Suspension or dismissal from any campus employment will automatically debar the student from other work opportunities. The student should read the sections on Work Responsibility and Work Opportunities in the Student Handbook, and should contact the Human Resources Department for more information.

### **STUDENT LITERATURE EVANGELIST SCHOLARSHIP PLAN**

The Student Literature Evangelist Scholarship Programme is, perhaps, the most important source of student aid at the university. Full details of the summer programme are available from the Conference office nearest to you or from the Vice President for Students Development and Services. In addition to the summer programme (May to August), many students engage in literature evangelism during the academic year.

### **MISSION GRANTS AND SCHOLARSHIPS**

Some Financial help is also available directly from different units/levels of the Seventh-day Adventist Church organizations. Recipients are usually, but not exclusively, those who have approved post-graduation ministerial career plans as pastors, evangelists, or Bible teachers, etc. More information may be obtained by writing to the Church organizations concerned. Other organizations are also encouraged to contact the University on possible arrangements for their constituents.

### **CASH WITHDRAWALS**

It is the responsibility of a student's sponsor to pay for incidentals during the school year. Cash withdrawals may not be permitted from the student's regular account unless there is an excess of funds on such account, arising from labour credits or other non-tagged sources. For safe keeping, students are encouraged to deposit their money for incidentals or other needs at the Campus branch of the WEMA Bank, Zenith Bank PLC, First Bank Nig. PLC. Sponsored students should have the express permission of their sponsors before any withdrawals may be authorized by the Bursar.

### **STATEMENT OF ACCOUNT**

The Balances on students' accounts are displayed online through the students' pages on the institution's Portal system. Detailed statement of account can be given on request by Bursary Department.

### **CHECK-OUT PROCEDURE**

Any student leaving before or at the end of a school term is required to obtain a check-out form from the Bursary or the Office of Vice President for Student Development, and follow the instructions. The clearance procedure includes:

1. Academic Department for Check-out  
Signature from HOD
2. Faculty Clearance with Dean's Office
3. Librarian for books and fees.
4. Health Center for medical bills.
5. Accommodation Checkout: Preceptor's room check (not Preceptor's Assistant) or Married Students housing check with the Bursar's or Deputy Bursar's signature
6. Student Development Citizenship and Work/Study clearance.
7. Office of Admissions and Records/Registry.
8. Security Department Clearance & ID Card Submission

### **Applications and Final Clearances**

Students in their final year, who are planning to graduate must file a Graduation Application and Agreement Form. Postgraduate students in their final year must also file an Advancement to Candidacy Form Both forms are available at the Registry and must be returned to the same office after they have been filled. Transcripts for transfer credit must be submitted to the Registry a minimum of one semester before graduation. All incomplete (IG) and deferred grades (DG) (if used for the degree) must be changed to a satisfactory grade in the Academic Records Office a minimum of 15 days before graduation. Students must receive financial clearance from the Student Accounts Officer before they can participate in graduation exercises or receive certificates.

### **Graduation in Absentia**

Students are expected to participate in all services associated with graduation unless they are granted permission to graduate in absentia. Those desiring to graduate in absentia must indicate that intention at the time of application for graduation

## **OFFICES TO HELP MEET YOUR FINANCIAL NEEDS**

### ***KNOW WHAT PAYMENT PLAN TO USE?***

**Student Accounts' Officer - Bursary**

### ***ELIGIBLE FOR FINANCIAL ASSISTANCE?***

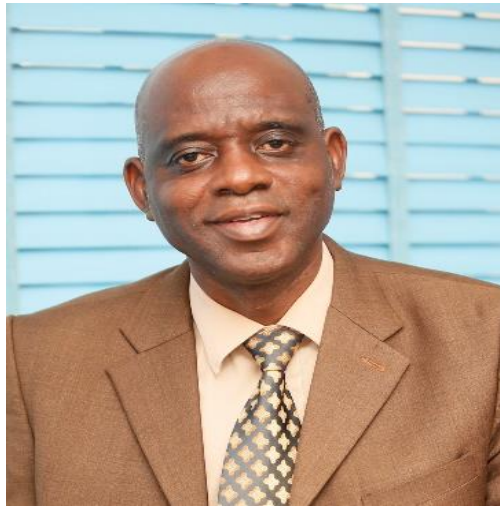
**Student Financial Aid Officer -**

**Office of the Senior Vice President/Deputy Vice- Chancellor, Academics**

### ***LOOKING FOR A CAMPUS JOB?***

**Student Labor Officer - Human Resources Department**

## **STUDENT DEVELOPMENT DIVISION**



***Professor Joseph A. OLANREWAJU***  
***Vice President, Student Development***

A university is not only for classroom instruction, but also a mode of association and fellowship. The effectiveness of university education is enhanced when students strive to develop the spiritual, academic, social and cultural dimensions of their being and their interest. To achieve this well-rounded personality traits students are encouraged to take advantage of the facilities and opportunities planned on campus for their harmonious development.

### **STUDENT DEVELOPMENT OFFICE**

The Student Development Office belongs to the students. When the student has exhausted all the support service units without solution to a problem, this office should be the next port of call. Students can drop their complaints inside the “Suggestion Box” or book an appointment with the Vice President for Student Development. The Office is located at the Ground Floor of the Adekunle Alalade Administrative Building.

### **RESIDENCE HALL LIVING**

The hall of residence is meant to be home away from home. The hall administrators are ever present to make your stay and experience at Babcock a unique one. Living in a university residence hall with its daily “give and take” prepares the student to meet life with equanimity, teaches respect for self as well as for the rights and opinions of others, and offers

first-hand experience in adjusting to a new social group. Each room is provided with beds, bookshelves, a table, chairs and dressers. To maximize this beneficial experience, the university normally would require regular students who are unmarried, under 27 years of age, and not living with their parents, spouses or other approved relatives in the vicinity, to reside in the university residence halls and abide by the rules and regulations prescribed for the halls. . Each hall has the Administrator's Office located on the ground floor. Students are encouraged to report problems that arise to the hall administrator promptly. Those granted privilege of living off-campus are required to conduct themselves in the highest moral standards as not to misrepresent the institution and its high ideals to the neighborhood.

### **CATERING AND FOOD SERVICES**

For the promotion of student health and vitality, the university provides a cafeteria service with specialized facilities for a balanced and wholesome low-fat vegetarian diet. The dining hall is naturally a center of student social and cultural life with adequate provisions made for many student and faculty social functions. Special attention must, therefore, be paid to the decency of dress and decorum.

The guest section of the cafeteria caters for important and special guests of the university, or at the request of paying faculty, staff or students. All residence hall students are normally expected to take their meals in the dining hall. For personal safety and hygiene reasons, no provision is made for food preparation in the rooms or residence halls. The cost of an option between two and three daily meal service is included in the boarding fees. Light foods and drinks are allowed in designated areas of the residence halls.

### **ORIENTATION PROGRAMME**

Babcock University has a personal interest in the success of the student pursuing higher education. It is only natural that, as with every new situation in life, there is much that the new student must do to get acquainted with the academic, social, and religious life of the university by perusing the University Bulletin and the Student Handbook. Instruction and counsel are given which helps the student better understand the university program and what is expected of him/her as a citizen of the university community.

Orientation for new students, held along with registration, includes medical examination, citizenship and instruction helpful in course planning. The student is introduced to the facilities, purposes, and functions of the university. Social occasions are also provided when students may meet faculty members and fellow students. All new students are required to attend the orientation programme to facilitate their integration into campus life.

### **CHAPLAINCY SERVICES**

Any student of Babcock University has the opportunity to enrich his/her personal relationship with Jesus through Campus Ministries activities. Through the programmes coordinated from the Chaplain's Office, students can engage in a wide variety of spiritual activities both on campus and off campus. The campus chaplain serves as a pastor for the university campus, and is available for spiritual counseling, personal and corporate concerns, or any confidential setting for students to discuss personal issues. Since many university students choose a life partner while in college, the Chaplain's Office provides various pre-marital inventories and counseling programmes to aid in the establishment of healthy Christian relationships. The services of the chaplain's office are rendered free of charge and without prejudice to religious affiliation or



confession of faith of the university community. Very useful contacts are maintained with other religious establishments in the community to ensure mutual respect and a harmonious co-existence as well as provide a link for the assessment of and spiritual assistance to students who belong to those communities of faith. The Chaplaincy Unit is located at Pioneer Seventh-Day Adventist Church located on the left immediately as one enters the campus from the main gate.

### **STUDENT SUPPORT CENTER**

The University recognizes the challenges young people face in this time and age. The Student Support Center was established to help meet these challenges. This center comprises the counseling and social work units. Upon request or referral, students with challenges such as substance abuse, bereavement, health or behavioral problems meet with a team of professionals who are ready to assist them. The center is located beside the Education and Humanity (EAH) building.

### **STUDENT ADVISORY**

During registration each student is assigned an academic advisor (usually the head of department (HOD) or another academic staff member appointed by the HOD who will assist in programme planning and give advice and guidance on academic questions throughout the school year. Students may also seek counsel concerning academic or personal problems from any member of the academic staff, where more formal assistance or specialized attention is needed, be it emotional, academic, social or spiritual.

### **STUDENT EMPLOYMENT SERVICE**

Babcock University, in line with the Seventh-day Adventist philosophy of education, encourages every student enrolled to organize his/her educational programme on the work-study plan. It is a policy of the university to give students first priority for jobs in its Auxiliary and Vocational services and campus industries. The uniqueness of this approach to education is that, if a student wants to work to earn a portion of his/her school expenses, provided he or she is physically and emotionally able to work, and has arranged his/her class schedule to accommodate a reasonable work schedule, he or she should be able to obtain employment on campus. These opportunities to engage in productive and gainful labor help to develop character traits of industry, dependability, initiative and the appreciation of the dignity in labor. In the process, students may also acquire valuable vocational skills and develop a responsible appreciation of personal finance and family budgets. Students seeking employment should contact the Human Resource Office. The student's performance in this work study qualifies him or her for Heritage Bursary Awards.

### **CAMPUS SAFETY**

The university has a security outfit with trained men and women security officers usually in uniforms. Their role is to maintain campus safety,. They are your friends on campus; and you can report any suspicious movement or if under any attack, harassment, or victimization to the nearest uniform officer.

### **STUDENT ACTIVITIES**

It is part of the university's policy to provide you with gainful physical exercise and Christian social programmes. The university has a sports' stadium and some equipment for games and aerobics. And, students are encouraged to make use of these facilities. All activities related to sports and socials are organized by the Student Activities Unit located at the stadium. ,

**i. Student Association**

Every student at Babcock University who is registered for not less than 16 semester hours of class work is a member of the Student Association (BUSA) with voting rights and privileges in the election of officers. Opportunities for responsible leadership development and for cooperation in achieving the objectives of the university are afforded by the Association.

The Association assists the University administration and Senate in the implementation of policies and assumes responsibility in giving direction to campus activities entrusted to it. The activities and responsibilities of the officers and the detailed organization of the Student Association are outlined in the Student Association Constitution and Bylaws, as approved by the University Council.

**ii. Campus Organizations**

Apart from the Student Association and its committees, there is the provision for the creation and organization of campus organizations to provide additional opportunities for enrichment, leadership training, and social well-being and happiness on campus. These could be church-related organizations, Campus Ministries, Student Ministerial Association, Literature Evangelists' Club, Adventist Youth for Better Living, Adventist Youth Society; clubs related to academic interests, sponsored by the departments; social, regional and cultural clubs. All clubs must be duly registered with Campus Life Department.

Each of these clubs must be approved by the University Senate and or Administrative Committee (ADCOM) to exist on campus, and must have an approved faculty sponsor and a student leader. Students may join any of the clubs, but must have a cumulative grade point average of 3.5 to hold any elected office.

Membership in any off-campus or inter-campus organizations and associations or participation in any off-campus events must be with the written approval of the University Administration.

Babcock University will not tolerate the existence of, or membership in any form of secret cults or societies and their affiliates or activities.

**iii. Standards of Conduct**

In harmony with the objectives of the University, high standards of behavior are maintained to encourage the development of genuine godly character. Mature believing students of sound spiritual and social integrity appreciate standards that elevate and ennoble. Detailed information about standard and expected conduct is found in the *Student Handbook*. Every student should become acquainted with its content and guide his/her conduct by the principles found therein. Admission to Babcock University is a privilege that requires the acceptance of and compliance with published and announced regulations. Only those whose principles and interests are in harmony with the ideals of the university, and who willingly subscribe to the social programmes ordered are welcomed.

A student who is out of harmony with the social policies of the institution, who is uncooperative, and whose attitude gives evidence of an unresponsive nature may be advised to withdraw without specific charge. The use of tobacco or alcoholic beverages, the improper use of drugs, attendance of questionable amusement places, gambling, indecent conduct, profane or vulgar language, the reading of pernicious literature and improper and secret associations and cults are to be strictly avoided.

So much has been packed under Student Development. I think some of them need to be re-distributed.

**UNIVERSITY PASTOR**



The University Pastor readily helps out in spiritual matters on Campus. He has a team of highly spirited and dedicated pastors to pray, educate, counsel, and walk with each student on the spiritual journey. His office is located at the University Church (Pioneer Seventh-day Adventist Church) by the Main Entrance of the University.

### **ASSEMBLY AND WORSHIP SERVICES**

A fundamental objective of the university is to develop a high concept of service to God and humanity. Daily worship services, weekend services, and weekly assemblies are important parts of the university programme in pursuit of this objective. They also provide an element of unity, which is one of the most desirable features of private education such as is found at Babcock. The Week of Spiritual Emphasis and all church services assist in the spiritual growth of the students. Students are, therefore, required to attend these services regularly for their own benefit. This campus life regulation is without prejudice to the privilege granted for students who are adherents of other faith communities to sign out off campus on individual request and parental consent, to enable them fellowship with their community of faith on an agreed schedule.

### **A DRUG AND CULT FREE ENVIRONMENT**

Babcock University has both a drug-free and cult-free policy. Drug-free' means abstinence from the use or possession of alcohol, tobacco and mind-altering drugs, and from the abuse of prescription drugs. Babcock University also upholds all laws which prohibit the possession, use, manufacture or distribution of drugs and other controlled substances. The possession of paraphernalia for the manufacture of drugs and the use of 'look- alike' or designer drugs is also prohibited.

"Cult-free" means that Babcock University is indisputably hostile to, absolutely incompatible with, and resolutely intolerant of the existence of, or membership in and overt or covert support for any form of secret cults or societies and their affiliates or related activities and symbols. Authors and agents of any form of violence or violent threats to life, property and programme, or any form of negative pressure (physical, mental or otherwise) exerted on individual members or groups will be permanently excluded from the university campus, and may be liable to prosecution.

Violation of Babcock's drug-free and cult-free policy will result in disciplinary action by the university. The primary intent of discipline is rehabilitative. A breach of the drug-free policy, however, will result in suspension or expulsion of the student involved, while the law makes mandatory an official report on cult-related activities to the Federal Minister of Education and the National Universities Commission. Persons involved at any time in the promotion, manufacture and/or distribution of these substances or the promotion, establishment or dissemination of these anti-social activities will be expelled from the University.

## ACADEMIC ADMINISTRATION DIVISION



***Professor Iheanyichukwu O. OKORO***  
***Senior Vice President /Deputy Vice Chancellor Academics***

Training the whole individual for the 4Hs: hand, head, heart, and habits have been the focus of Babcock University. This “harmonious development of the physical, mental, spiritual, and social powers” is our *raison d’être*, our reason for being. It is our definition of functional education. To us, it constitutes the contents of qualitative education. It is the education of the whole person in practical terms. This educational philosophy has an eternal dimension. In addition to preparing the student to be useful to himself/herself, the parents, and the larger society in the daily affairs of life, the student is prepared for the life hereafter, for the University of Eternity, presided over by the Creator. Acquaintance with this Creator is at the root of academic offerings at Babcock University. Thus, the most important objective of our education is “that they might know Him whom to know is life eternal”. This undergraduate ***Bulletin*** in your hands contains the academic programmes for achieving the aims and objectives of our education. That each student will, through the various courses, come to know Him, is the fervent prayer of the Academic Division of the university.

### **SCHOOLS AND DEPARTMENTS**

The undergraduate academic programme of the university is currently composed of one College, eleven schools and thirty nine Departments as follows:

**BENJAMIN S. CARSON COLLEGE OF HEALTH AND MEDICAL SCIENCES: This**

**consists of 5 schools.**

**SCHOOL OF BASIC MEDICAL SCIENCES**

**DEPARTMENTS**

Department of Anatomy  
Department of Biochemistry  
Department of Nutrition and Dietetics  
Department of Physiology

**SCHOOL OF BASIC CLINICAL SCIENCES**

**DEPARTMENTS**

Department of Chemical Pathology  
Department of Haematology and Immunology  
Department of Histopathology  
Department of Medical Microbiology  
Department of Pharmacology and Therapeutics

**SCHOOL OF CLINICAL SCIENCES**

**DEPARTMENTS**

Department of Community Medicine  
Department of Medicine  
Department of Paediatrics  
Department of Obstetrics and Gynaecology  
Department of Surgery

**SCHOOL OF NURSING**

**DEPARTMENTS**

Department of Adult Health  
Department of Community Health  
Department of Maternal and Child Health  
Department of Psychiatry and Mental Health

**SCHOOL OF PUBLIC AND ALLIED HEALTH**

**DEPARTMENTS**

Department of Medical Laboratory Sciences  
Department of Public Health

**The other schools are:**

**SCHOOL OF COMPUTING AND ENGINEERING SCIENCES**

**DEPARTMENTS**

Department of Computer Science  
Department of Information Technology  
Department of Software Engineering

**SCHOOL OF EDUCATION AND HUMANITIES**

**DEPARTMENTS**

Department of Education  
Department of History and International Studies  
Department of Languages and Literary Studies  
Department of Music and Creative Arts  
Department of Religious Studies

**SCHOOL OF LAW AND SECURITY STUDIES****DEPARTMENTS**

Department of International Law and Security Studies  
Department of Jurisprudence and Public Law  
Department of Private and Commercial Law

**SCHOOL OF MANAGEMENT SCIENCES****DEPARTMENTS**

Department of Accounting  
Department of Business Administration and Marketing  
Department of Finance  
Department of Information Resources Management

**SCHOOL OF SCIENCE AND TECHNOLOGY****DEPARTMENTS**

Department of Agriculture and Industrial Technology  
Department of Basic Sciences  
Department of Microbiology

**VERONICA ADELEKE SCHOOL OF SOCIAL SCIENCES****DEPARTMENTS**

Department of Economics  
Department of Mass Communication  
Department of Political Science and Public Administration  
Department of Social Work

**COURSE NUMBERS**

100-199 ----- 100 Level  
200-299 ----- 200 Level  
300-399 ----- 300 Level  
400-499 ----- 400 Level  
500-599 ----- 500 Level

Courses ending with odd numbers are usually first semester courses while courses ending with the even numbers are normally offered during the second semester. A course ending in “0” may be offered in either semester. Upper division requirements for graduation must be met by courses numbered 300 or above.

**COURSE ABBREVIATIONS**

ACCT            Accounting

ACHM	Analytical Chemistry
ANAT	Anatomy
ANSC	Animal Science
AGRE	Agricultural Economics
AGRI	Agriculture
AGRY	Agronomy
ANTH	Anthropology
AUTO	Auto Technology
BCHM	Biochemistry
BIBL	Biblical Languages
BIOL	Biology
BSAD	Business Administration
BOTA	Botany
CHEM	Chemistry
CHPA	Chemical Pathology
CMSS	Criminology and Security Studies
COMM	Communication
COHE	Community Medicine
COSC	Computer Science
CRIM	Criminology
CRLS	Christian Religious Studies
CTEC	Computer Technology
DIPL	Diplomacy/International Relations
ECON	Economics
EDPA	Educational Administration and Planning
EDTE	Teacher Education
EDUC	Education
ELCT	Electronics
ENGF	English and French Studies
ENGL	English
FNCE	Finance
FRED	French and Diplomatic Studies
FREN	French
EVMT	Environmental Management
GCPY	Guidance and Counseling
GEDS	General Education Studies
HAEM	Haematology
HIFL	History (French Language)
HIST	History and International Studies
HLED	Health Education
HMEC	Home Economics
HPAT	Histopathology
ICHM	Industrial Chemistry
ILDP	International Law and Diplomacy
INSY	Information Systems
INTC	Industrial Technology

INDS	Interior Design
IRMA	Information Resources Management
ITGY	Information Technology
LAWS	Law
LIBR	Library Science
MISY	Management Information Systems
MATH	Mathematics
MBBT	Molecular Biology and Biotechnology
MBIO	Microbiology
MCOM	Mass Communication
MDSG	Medicine and Surgery
MKTG	Marketing
MLSB	Haemathology and Blood Group
MLSC	Medical Laboratory Science
MLSH	Histopathology
MLSM	Medical Microbiology and Parasitology (For Med Lab Sci.)
MLSP	Chemical Pathology
MMIC	Medical Microbiology
MUSC	Music
MUPF	Music Performance
NRSG	Nursing Science
NUDT	Nutrition and Dietetics
OFSY	Office System Management
OFTE	Office Technology
PBAD	Public Administration
PHAM	Pharmacology
PHGY	Physiology
PHSC	Public Health
PHYS	Physics
PLSC	Political Science
PSYC	Psychology
RELB	Biblical Religion
RELG	General Religion
RELH	History of Religion
RELP	Professional and Applied Studies in Religion
RELT	Theology in Religion
SECU	Security Sciences
SOCI	Sociology
SENG	Software Engineering
SOWK	Social Work
STAT	Statistics
TCED	Technical Education
TXTL	Textiles and Clothing
WOOD	Wood Technology
ZOOL	Zoology

## **BABCOCK UNIVERSITY PROGRAMMES BY SCHOOLS AND DEPARTMENTS**

**BENJAMIN S CARSON COLLEGE OF HEALTH AND MEDICAL SCIENCES** (School of Basic Medical Sciences, School of Basic Clinical Sciences, School of Clinical Sciences, School of Nursing and School of Public and Allied Health)

### **SCHOOL OF BASIC MEDICAL SCIENCES**

#### **DEPARTMENTS**

Department of Anatomy

*Anatomy and Medicine*

Department of Biochemistry

*Biochemistry and Medicine*

Department of Nutrition and Dietetics

*Nutrition and Dietetics*

Department of Physiology

*Physiology and Medicine*

### **SCHOOL OF BASIC CLINICAL SCIENCES**

#### **DEPARTMENTS**

Departments of Pathologies

*Medicine*

Department of Pharmacology

*Medicine*

### **SCHOOL OF CLINICAL SCIENCES**

#### **DEPARTMENTS**

Department of Community Medicine

*Medicine*

Department of Medicine

*Medicine*

Department of Paediatrics

*Medicine*

Department of Obstetrics and Gynaecology

*Medicine*

Department of Surgery

*Medicine*

**SCHOOL OF NURSING SCIENCE**

Department of Adult Health

*Nursing Science*

Department of Community Health

*Nursing Science*

Department of Maternal and Child Health

*Nursing Science*

Department of Psychiatry and Mental Health

*Nursing Science*

**SCHOOL OF PUBLIC AND ALLIED HEALTH**

Department of Medical Laboratory Sciences

*Medical Laboratory Science*

Department of Public Health

*Public Health*

**SCHOOL OF COMPUTING AND ENGINEERING SCIENCES**

**Department of Computer Science**

*Computer Science*

*Computer Information Systems*

*Computer Technology*

**Department of Information Technology**

*Information Technology*

**Department of Software Engineering**

*Software Engineering*

**SCHOOL OF EDUCATION AND HUMANITIES**

**Department of Education**

*Business Education*

*Economics Education*

*Educational Administration and Planning*

*English Education*

*Guidance and Counseling*

**Department of History and International Studies**

*History and International Studies*

**Department of Languages and Literary Studies**

*English Studies*

*French*

**Department of Music and Creative Arts**

*Music*

**Department of Religious Studies**

*Christian Religious Studies*

**SCHOOL OF LAW AND SECURITY STUDIES**



Department of International Law and Security Studies

*Law*

**Department of Jurisprudence and Public Law**

*Law*

**Department of Private and Commercial Law**

*Law*

## **SCHOOL OF MANAGEMENT SCIENCES**

**Department of Accounting**

*Accounting*

**Department of Business Administration and Marketing**

*Business Administration*

*Marketing*

**Department of Finance**

*Finance*

**Department of Information Resources Management**

*Information Resources Management*

## **SCHOOL OF SCIENCE AND TECHNOLOGY**

**Department of Agriculture and Industrial Technology**

*Agricultural Science*

**Department of Basic Sciences**

*Biology*

*Chemistry*

*Mathematics*

*Physics with Electronics*

**Department of Microbiology**

*Microbiology*

## **VERONICA ADELEKE SCHOOL OF SOCIAL SCIENCES**

**Department of Economics**

*Economics*

**Department of Mass Communication**

*Mass Communication*

**Department of Political Science and Public Administration**

*Political Science*

*International Law and Diplomacy*

*Public Administration*

**Department of Social Work**

*Social Work*

## **AUTHORIZATION AND IMPLEMENTATION OF ACADEMIC POLICY**

The University Senate, chaired by the Vice-Chancellor, is responsible for setting academic standards and policies within the general policies established by the Babcock University Governing Council and the West-Central Africa Division (WAD) Board of Education. The general responsibility for interpretation and implementation of policies are, however, delegated to the Senior Vice-President/Deputy Vice-Chancellor (Academics), as the Chief Academic Adviser to the Vice-Chancellor.

Academic policies are published in the *University Bulletin* (Undergraduate and Postgraduate) and other media as may be published from time to time (examination guidelines, registration procedures, etc.). Changes to academic regulations which occur between printings of the Bulletin are binding if they have been approved by the University Senate and presented to students by a formal written notice. All sub-committees of Senate charged with academic responsibilities operate within the scope of powers delegated to them by Senate, viz: powers to recommend and powers to act in certain matters entrusted to them.

### **ADMISSION REQUIREMENTS**

Applicants for regular admission as freshmen (100-Level) must submit three satisfactory letters of recommendations to the Admissions Office, and satisfy the following, with original copies of documents available for verification at the time of enrolment:

#### **Regular Admission:**

West African Senior Secondary School Certificate (SSSC); General Certificate of Education (GCE) Ordinary Level (O'L) or equivalent, National Examinations Council (NECO), National Business and Technical Examinations Board (NABTEB), at not more than two sittings.

- a. A minimum of Credit level (C6) pass in at least 5 subjects, including English Language; Mathematics is also required at credit level for sciences, social sciences, business and management courses, and Law degrees
- b. Acceptable passes in the Unified Tertiary Matriculation Examinations (UTME);
- c. Acceptable entry requirements for major area of study;
- d. In addition, candidates with acceptable Unified Tertiary Matriculations Examinations (UTME) results will further be screened to ascertain suitability for admission into Babcock University.

### **Provisional Admission**

All admissions offered by the University are provisional until the credentials of the candidate have been verified and certified by the Registrar. Applicants awaiting the results of the Senior Secondary School Certificate Examinations (SSSCE), National Examinations Council (NECO), or General Certificate of Education (GCE) are eligible to apply, but must provide authenticated results before Matriculation. If the results are not favourable, the admission will be withdrawn automatically. Authenticated results must satisfy the requirements for a chosen degree programme before consideration for regular admission and matriculation.

### **Application Procedures**

Prospective students should complete and submit their application forms, along with three letters of recommendation and photocopies of their certificates, to the Registrar. The required application fee must accompany the forms. Students are required to present all original official/permanent certificates at registration time for verification.

Application procedures and Admission Requirements for the Postgraduate programmes are contained in the section for policies on Postgraduate Studies.

### **ADMISSION OF CONSTITUENCY CANDIDATES**

Seventh-day Adventist candidates and the children of faculty and staff may be offered admission on concessionary basis, provided they have met the minimum academic requirements for the intended programs.

### **TRANSFER STUDENTS**

Due to the exigent nature of its programs, Babcock University does not normally accept students on transfer from other institutions. However, students wishing to transfer to Babcock University from other accredited colleges or universities must follow the same application procedure as other applicants. Complete transcripts of studies taken elsewhere and a letter of recommendation by the current school must be submitted, even if no credit was earned. Such transfer credits, although can be counted towards degree requirements, will not reflect on Babcock University issued transcript and will not be used for the GPA or CGPA calculation.

Credits of examination taken at other colleges or universities will be accepted according to Babcock University standards (see section on “University Credit by Examination” in the Academic Policies section of this document). Students should spend a minimum of three years in residence before graduation. A maximum of 84 semester hours may be accepted from a college or university where the highest degree offered is the associate degree. Background deficiencies revealed by transcripts and entrance examinations will be given individual attention.

Conditions regulating the admission of transfer students are summarized below:

1. Only those courses that are comparable to Babcock University courses, and for which the student has earned a minimum grade of “C” (2.0 on a 4-point scale or 2.5 on a 5-point scale) will be accepted. The overall CGPA on all previous college work must be at least a C.
2. If a transfer student requests a transcript from Babcock University before he graduates, credits from previous institutions attended will not be listed on the Babcock University

issued transcript.

3. Approval of the Senate is needed for a student to take any class in another institution while registered at Babcock University.
4. A student who has been dismissed from another institution because of poor scholarship or citizenship, or who is on probation from that institution may not be eligible for admission.
5. Regardless of the number of transfer credits accepted, a student must meet the general residency of three years and take all general education (GEDS) courses of Babcock University to qualify for graduation.

Policies regarding postgraduate students on transfer are contained in the Postgraduate section.

### **Direct Entry Admission**

Candidates with post-secondary qualifications may apply for admission into 200 level for the relevant undergraduate programmes. Complete transcript must be submitted by the student. Babcock University General Education Courses must be taken by Direct Entry students from the point of entry. While commensurate credits may be given for specific courses passed in any recognized diploma or certificate examinations, no 'direct entry' candidate shall be considered for whole session exemptions by University policy (academic).

### **INTERNATIONAL STUDENTS**

An international student applying to Babcock University (BU) must have obtained the equivalence of the Senior Secondary School Certificate (SSSC). The student is required to list only the institutions and dates attended on the application forms, but will not be accepted by Babcock University until the university has received original transcripts, records, and official copies of all credits, degrees, diplomas, and other credentials with validation by faculty or national officials. These should be in the original language, accompanied by a translation (not an interpretation) in English, done and validated at the country's embassy, where the programmes were offered in languages other than English. The Registrar will evaluate academic documents received from international students. Proficiency in English, both written and oral, must be proven before regular admission is offered. International students are strongly advised to remain in their homeland until they have received official letters of admission from BU. Such a letter will be issued only if the student's academic credentials are satisfactory, a surety advance deposit made, and the student is able to demonstrate ability to finance his/her education at Babcock University. International students must have students' residence/study permit or visa to qualify for study at Babcock University and must report to the International Student's Adviser at the Registry with their documents upon arrival on campus.

### **Admission Credentials**

A student is not considered as a regular undergraduate candidate until original/official certificate(s) have been submitted to BU Registrar for verification purposes.

### **Placement Tests**

New students may be required to take Placement Tests as deemed fit by the University.

### **Auditing Classes**

Students desiring to audit classes (attend class periods without earning grades or credits by taking tests or examinations) must receive official permission from the Registrar. No academic credit will be awarded, and the course will appear on the transcript designated as "AU". The tuition charged for auditing a class is the same as for regular classes. Students who audit classes must attend at least 80% of the classes and laboratories and pay the same tuition as others, but they are not required to do class assignments or sit for tests. They will be given a grade of AU, but no credits. A student who fails to meet the attendance requirements will be given a "W". Should the student later desire credit, he must retake the class.

## **STUDENT RESIDENCY AND PLANNING A COURSE OF STUDY**

The university programmes include course offerings leading to the Bachelor's and other professional degrees, in various fields as well as post-graduate degrees. As a matter of policy, the university academic session runs a regular cycle beginning on the first Monday of September, and ending during the last weekend of April of the following year.

### **1. Planning:**

Degree candidates are responsible for satisfying all degree requirements. To effectively plan their course work, students should acquaint themselves with the programs of study and graduation requirements outlined in the *Bulletin* with which they were admitted.

### **2. Residency:**

The normal residency for each degree programme is aligned with the stipulation of the National Universities Commission. A maximum of two extra years are allowed beyond the normal residency for each programme.

### **3. Discontinuation of Studies:**

A student who discontinues his/her education for a period of one academic year or more needs to apply for resumption, as long as his/her studentship and *Bulletin* are still active. Discontinuation without permission will lead to loss of studentship.

### **4. Expiration of Studentship:**

A student's residency expires if he/she fails to complete the degree requirements at the end of the two extra years beyond normal residency. A student who wishes to continue his/her studies is required to apply for fresh admission under the most current *Bulletin*. Peculiar cases will be referred to the University Senate for appropriate action.

## **REGISTRATION**

### **Procedure**

Registration days are specified in the academic calendar of each semester. Written instructions are given on Bulletin boards at the Registry and around campus. Registration is complete only after all required procedures have been satisfied.

### **Medical Examination**

A complete medical examination is required of all prospective students. The university provides an examination form which is to be completed and signed by the Chief Medical Director of Babcock University Teaching Hospital (BUTH), certifying that a thorough

medical examination of the prospective student has been completed. This service is to be completed as soon as the student arrives on campus. An emergency medical care/surgery authorization must be signed at the Babcock University Teaching Hospital (BUTH) by the parents/guardians for resident students.

### **LATE REGISTRATION**

Failure to register within the period stated in the academic calendar or as announced attracts a late registration fee charged in accordance with announced regulations. The course load of any student registering late will be reduced one credit hour for each week of instruction or part thereof missed. No student may register after the date published in the academic calendar as the last day to enter any class, except if there is a change.

### **ADD AND DROP OF COURSES**

A student is permitted to add and/or drop a course/courses within the semester. The last day to drop a course is usually published in the academic calendar. However, a student is not permitted to add or drop a course after the officially approved date for the Mid Semester examination for each semester.

### **CHANGE OF PROGRAMME**

Before a change of programme may be considered, the student ought to have completed at least two semesters in the programme as contained in the admission letter. Such a student should apply through the department, whom, upon consultation with relevant units, such as Registry, Student Support Services, etc. shall recommend the student to the desired programme. Having indicated acceptance, the releasing department signs the Change of Programme Form, obtainable from the Registrar's office. All other formalities as contained in the form shall be duly followed. The student should endeavor to secure the acceptance of the receiving department before initiating the change of programme. It is advisable that every request for change of programme be initiated at the end of the second semester.

It is recognized that there are two categories of students seeking for change of program:

- (a) Students who are unable to cope in a particular programme and consequently have failing grades;
- (b) Students who are doing well academically in one program but desire to change to another program.

In the process of the change of programme, disparity in courses do occur, whereby some courses offered and passed in the previous program become irrelevant to the new desired program. In this instance, students' records which are not relevant to the new program of choice, should be expunged from the students' academic records, as they move into a new program.

A student in 300 level and above is not encouraged to transfer from one programme to another. However, where the student is allowed to transfer, he/she should start from 200 level (except where a student desires to begin from 100). In such instances, all courses taken at 200 and subsequent levels that are not relevant to the new desired program should be expunged from the student's academic records.

## **CLASSWORK**

### **Class Attendance**

Every student is required to attend classes regularly and punctually, unless ill or prevented by some recognized emergency. Students who absent themselves from class for more than three weeks during the semester shall merit an “FA” grade. Authorized leave of absence from campus does not excuse the student from classes, or relieve the student of the required course work.

A teacher who consistently violates the policy on absence of teachers from classes will be issued a query and the response and action taken should be forwarded to the Office of Institutional Effectiveness.

### **Class Load**

Except where the Senate-approved requirements of particular course of study so allow, a full-time student is one who is registered for a minimum of 16 credits per semester. Only final year students of superior scholarship, with a minimum CGPA of 3.50 on a 5-point scale, will normally be allowed to take up to 3 credits in excess of the full load as prescribed in the applicable bulletin. One semester credit represents a 50-minutes class period per week, for a minimum of 15 weeks of classes that constitute one semester. Students on academic probation may be allowed to take between 12 and 16 credits in order to allow them improve on their academic performance. Extra year students may be allowed to take a minimum of eight (8) credits during their final regular semester or maximum of 13 during their final summer, to prevent the students from abusing the privilege of doing less than the minimum, and to prevent extra fees the following school year.

In order to carry full class load, students on work study program are limited to 20 hours of work per week during the regular semester.

### **Class Standing**

At the beginning of the first semester, students are classified as follows:

Freshman	(100 Level) -	0-48 credits
Sophomore	(200 Level) -	49-96 credits
Junior	(300 Level) -	97-144 credits
Senior	(400 Level) -	145-192 credits
Senior	(500 Level) -	193-240 credits

Note that class standing is determined by credit load accumulated and not number of years after admission.

### **Graduating Student**

A graduating student is one who does not have more than 48 units to complete his/her program in a given school year.

### **Extra Year Student**

An extra year student is one who has exhausted the minimum approved period of residency for a program but who is yet to complete and pass all courses leading to graduation.

## **SUMMER SCHOOL**

This is a two-month summer term that usually holds within May-July. This academic term is designed to:

1. empower students who so desire, to complete degree requirements a little earlier than the 4-year or 5-year period provided for by regular two-semester sessions;
2. enable academically weak students to spread out their sessional academic load over two additional months of the year subject to the proviso of minimum of 16 credits per semester with exception of unique cases as approved by Senate.
3. allow students with program deficiencies catch up on needed requirements before the beginning of a new academic session;
4. provide continuing education training opportunities through professional certificates, and programmes mounted by diverse disciplines according to the felt needs of the local, national and international constituency as well as academic programmes that require them to be in summer school.

Students planning to enroll for the summer school or participate in a summer tour must pre-register by the middle of the second semester. While summer course offerings are usually more limited than during regular sessions, the academic load is normally restricted to a maximum of 10 semester credits or 13 for graduating students in their final year, and not more than 13 credits for students completing requirement that summer. During the Summer School, courses are offered based on the needs of the student, without prejudice to even or odd course codes. However, students are to request and select courses in the Summer Semester according to their class standings. Proper guidance from the department is key in the request and selection of courses during the Summer School.

## **DISTANCE LEARNING COURSES**

By special request, a student may be given approval to take up to six credits from a recognized correspondence school or Distance Learning Center (DLC). Credit will not be given for courses in a student's major field, unless that course is not offered at the university. Correspondence courses cannot be used to replace failures or other low grades earned in residence. Permission for taking a course(s) by long distance (DLC) or by correspondence must be sought and approval received from the HOD and Dean after the student must have completed necessary forms at the Registry.

## **COURSE WAIVER EXAMINATION**

A waiver examination may be requested from the University's Academic Standards Board through the departments. Such an examination does not earn credit, but allows for a reduction by a course or a substitution for another course. There is a charge for all waiver examinations.

## **EXTERNAL EXAMINATIONS**

Students will not be permitted to sit for any external examinations during the school year, unless permission is sought through the teacher, the Head of Department, and the Dean. The Leave of Absence from classes Request Form must be completed and sent to the Deputy Vice Chancellor/Senior Vice President.



## **BABCOCK ASSESSMENT PHILOSOPHY AND POLICY**

Assessment of student performance at Babcock University for all academic programs shall be in accordance with the following policy guidelines:

### **RATIONALE FOR STUDENT ASSESSMENT**

1. Assessment of student work through grading of assignments and examinations has the following objectives:
  - a. To provide learning experiences in which students may develop and demonstrate a range of intellectual abilities
  - b. To permit teachers to measure the achievements of students against both institutional objectives and standards current in comparable institutions in the international higher education community
  - c. To provide a means of monitoring students' progress, and to diagnose specific strengths and weaknesses in student learning so that teachers and students may work together to remediate difficulties and maximize student achievement
  - d. To provide a variety of formative and summative assessment tasks which recognize individual differences between students and address a range of skills and abilities
  - e. To assist in the process of designing curriculum and in choice of presentation methods
  - f. To indicate to teachers as to where modifications in their teaching may be desirable in order to facilitate improved student learning
2. The assessment process should be characterized by:
  - a. Content Validity: does the assessment measure what it claims to measure? Does it reflect the teaching process? Is it representative of the content as taught?
  - b. Predictive Validity: does the assessment predict success in desired outcomes, for example, effectiveness in ministry, accounting, nursing, teaching, law?
  - c. Suitability: is the assessment process suitable to the discipline?
  - d. Reliability: is there consistency in the evaluation?

### **GENERAL CRITERIA FOR ASSESSMENT**

The assessment process will provide indicators for students with:

- a. mastery of a corpus of knowledge and/or skills
- b. understanding of key interpretive issues
- c. ability to deduce, analyze, synthesize, and evaluate capacity for sound scholarship in the selection, use, and documentation of sources
- d. ability to apply theories and methodological content of the discipline
- e. capacity for independent thought
- f. capacity to argue and communicate coherently and persuasively either symbolically or in written form

### **MODES OF ASSESSMENT**

Students may be assessed on the basis of either course work or subject examinations or as is likely in most instances, by a combination of both. All written and oral assessment will use English medium except for non-English language examinations. All continuous assessment work during the semester will be returned for review by students after assessment during the semester. Final examination scripts will be retained by the institution for a period of at least five years after

graduation, but will not be returned to the student.

Specific modes of assessment may include the following:

- a. Written examinations, short answer/multiple choice and open book tests
- b. Essays, reading reports, research assignments
- c. Independent research projects, field work performance
- d. Class presentations, oral assessments, open book assessments
- e. Portfolios or work, artifacts, works of art.
- f. Process diaries, work books, project work, laboratory reports

The modes will be appropriate to both the level of difficulty and to the specific objectives of each subject, and will reflect the expectation of increasing levels of achievement and sophistication as a student progresses. For example, assessment of 200-level subjects will rely less on multiple choice or short answer type questions than 100-level subjects might, while 300-level courses and above will primarily utilize, but may not necessarily be limited to, extended response, constructive or deductive questions that assess a student's ability to analyze, synthesize, evaluate and develop an argument, communicating clearly and persuasively in English or other language of instruction.

Evaluation should seek to be as objective as possible, although it is recognized in some disciplines. Lecturers through their assessment criteria will not assign marks for such matters as 'attitude'. Normally, marks assigned for 'general participation' in a course should not exceed 10%.

### **COURSE OUTLINE (SYLLABUS)**

A teacher is required to prepare a detailed course outline (syllabus) for each course. A well designed course outline should, in addition to Course Description, contain detailed information about student assessment and should be made available to the students at the beginning of every course, with a copy domiciled in the Department.

### **PATTERNS OF ASSESSMENT**

At the beginning of the school year, each academic department (through committees, or where appropriate, course teaching teams), will scrutinize the type and volume of work expected in all their subjects to ensure that coincidence of demands placed on students are appropriate and reasonable. In general, a student is expected to spend a minimum of 3 hours (180 minutes.) for each credit unit registered for. Each department will submit a summary of each subject's workload for review by the School Board of Studies. Within departments, an effort will be made to avoid unmanageable peaks of assessment for likely subject combinations in student programs, to facilitate the objective of reflective and contemplative learning. Each subject description will indicate the percentage each assignment or assessment measure contributes towards the final grade given for that subject. The total number of assessable assignments, including a final examination, will generally not exceed four for a three (3) or four (4) credit point subject.

Where an assessable assignment or module constitutes an essential component of the subject that must be passed satisfactorily, the subject outline must clearly state the minimum percentage

that constitutes a satisfactory pass in each of the essential components. Teachers of subjects which normally include a sequence of assessable practical classes should regard that sequence as an assignment. The assessments schedule will be clearly stated to the students at the beginning of each semester in the course outlines, subject descriptions or subject handouts in order to encourage students to make efficient use of their time. The total length of all written assignments set in subjects of 3 or 4 credits or unit points (apart from the end of semester examination) will not exceed the following limits:

100-level subjects	-	2,500 words;
200-level subjects	-	3,000 words;
300-level subjects	-	3,500 words;
400/500-level subjects	-	4,000 words

Subjects in which the nature of the learning requires assessment to be entirely or mainly by course-work or workshop assignments shall follow criteria established within each relevant department and approved by Senate. Appropriate equivalent criteria approved by the Department and Senate shall be established in those disciplines in which assessments are substantially in a non-written form. To ensure equivalence of demand, assessments for subjects carrying other than 3 or 4 credit points will be on a pro-rata basis, and by current Senate policy, the value of CONTINUOUS ASSESSMENT SHALL BE 50% of course grades, exclusive of the final semester examinations.

## **CONTINUOUS ASSESSMENT-BASED GRADING PERCENTILE GUIDELINES**

### ***Continuous Assessment:***

Class Attendance:	5% }		
Quizzes & Tests:	10% }		
Assignments:	10% }	=	40%
Mid-Semester Exam:	15% }		

Final Semester Exam:	60%
<b><i>TOTAL</i></b>	<b><i>100%</i></b>

### ***Short Periodic Tests:***

In those subjects where short periodic tests are appropriate there should be no more than four of such during the semester. They should not be scheduled during the last three weeks of classes. The deadline for submission of essay and research assignments is eight calendar days prior to the end of classes. Exemptions from this requirement for any subject must be specifically approved by the Head of Department and Dean of School each semester.

### ***Grading and Returning all Tests Papers to Students:***

Teachers are under obligation to grade, record and return all tests, quizzes, assignments, reports, and mid-semester examination scripts to students before the final examination. This will enable the students to assess their performances in the Continuous Assessment

components and make adequate adjustments in their preparation for final examination.

***Assessing Group Assignments:***

Teachers are to exercise great care in assessing GROUP ASSIGNMENTS and GROUP PRESENTATIONS. In some instances, some members of a group are not present in class during the presentation of their group assignment for whatever reasons. In such instance, instead of rejecting the assignment and marking every member of the group down, the teacher is under obligation to protect students who are present by (a) allocating some of the marks for the assignment to out-of-class participation in the completion of the assignment and some marks to in-class presentation of the findings and (b) assigning the appropriate marks accruable to the presentation to the group assignment to group members who participate in the in-class presentation of the group assignment.

This will ensure that students who did not participate in the completion of the assignments or were not present during the presentation in class would lose appropriate marks while those who participated in both stages earn maximum marks accruable to the graded group assignment.

*Policies on missed assignments or tests apply here as well.*

***Right of Student to Review Continuous Assessment Components:***

A student has the right to see and review his/her score on every component of assessment leading to his/her grade in a course. Teachers are required to oblige the requests from students, even if arrangements have to be made to ensure that this is accomplished. To forestall unnecessary interruptions, teachers may publish and announce the dates, times and venues when students can have access to their assessment scores and procedures.

***Exclusive Nature of Final Examination:***

A teacher shall not, under any circumstance, administer any other form of assessment to the students together with the final examination on the day of final examination, not even make-up tests. This will both encroach on the time allotted for the final examination and mount undue pressure on the student and possibly negatively affect his/her performance in the final examination as well as the other assessment.

**MISSED EXAMINATIONS**

Any student missed an examination due to ill-health or any genuine emergency or who falls ill during an examination should report in writing to the Registrar (through the Dean, HOD, and Lecturer of the affected Course/s), attaching evidence of hospitalization certified by Babcock University Teaching Hospital or other relevant and verifiable evidence of the emergency. He/She should be excused from writing the examination and would be allowed to write the missed examination at an appropriate time. However, if a student, in spite of his/her illness, writes the examination, whatever grade he/she scores will remain recorded for him/her.

**EXAMINATION PAPERS AND ASSIGNMENTS MODERATION PROCESSES**

Setting and Marking of Examinations and Assignments;

The Head of Department shall ensure that examination questions are reviewed and attested to before administering to students.

External moderators currently teaching in a recognized and approved university shall be appointed for each discipline area within the courses of study. Subject moderators will be chosen for their competence in each of the examinable areas of the curriculum, and shall serve for a period of two years. External subject moderators are an integral part of the quality control process. Their role is to ascertain, in accordance with existing Babcock University regulations and tradition, that students receive fair evaluation and to assist in ensuring that rigorous academic standards are maintained for the degrees awarded. In each subject they will review a representative sample of examination scripts and assignments in the light of the subject descriptions and the examination paper.

Students' formal contribution to quality assurance procedures is through the systematic use of the Student Rating of Teaching Effectiveness Instrument, which is used in a minimum of one subject per teacher per semester. The evaluation exercise shall be conducted regularly by the Head of Department between the 10th -12th week who submits the completed instrument to the Associate Vice President, for Institutional Effectiveness immediately upon completion. The Office of Institutional Effectiveness will analyse and submit the findings to the teachers, HODs and Deans. The result of the findings may be discussed with the teachers by the Associate Vice President, for Institutional Effectiveness. Teachers to be evaluated shall be nominated by the Head of Department each semester, and shall be planned on a systematic schedule so that each teacher is evaluated at least once every three years.

#### **DEPARTMENTAL COMMITTEE OF EXAMINERS (DCE)/SCHOOL BOARD OF EXAMINERS (SBE)**

Within two weeks of the conclusion of the semester examinations, results will be released to students. During this period, the Departmental Committee of Examiners (DCE) shall meet to review the distribution of grades, moderating borderline results and determining that all results are in accordance with approved course requirements and regulations. All assessments will be reviewed to ensure that they are fair, uniform, and of an acceptable standard for the award. The Dean of each school constitutes a School Board of Examiners (SBE) for the purposes of reviewing and accepting recommendations forwarded to it by the Department Committee of Examiners (DCE) before submission of final results for Senate approval. The SBE shall include all internal examiners (all teaching staff).

#### **GRADES AND REPORTS**

The authority to determine grades is the preserve of the teacher. Reports on student's scholastic standing will be issued following the mid-semester and semester examinations.

#### **5-POINT GRADING SYSTEM**

Currently, the 5-point grading system adopted by the University Senate translates as follows:

<b>Grades</b>	<b>Marks Range</b>	<b>Quality Points</b>	<b>Definition</b>
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A	80-100	5.00	Superior
B	60-79	4.00	Above Average
C	50-59	3.00	Average
D	45-49	2.00	Below Average
E	40-44	1.00	Pass
F	0-39	0.00	Fail

### GENERAL NON-POINT GRADES

I - Incomplete, because of illness or extreme recognized emergency. An Incomplete is not automatic.

To qualify for an Incomplete, the students must make a written request through the teacher, and obtain approval from the Registry. Incomplete must be made up by the end of the following semester or the grade automatically becomes an F. An “I” has no effect on the GPA.

S - Satisfactory (no grade point value)

U - Unsatisfactory (no grade point value)

W - Withdrawal (no grade point value)

WV - Waiver (no grade point value)

AU - Course audited (no academic credit)

FA - Failure due to unauthorized absence

### CUMULATIVE GRADE POINT AVERAGE (CGPA) CALCULATION

The following formula is used to calculate the cumulative grade point average, taking into consideration all courses taken and credits earned by students, including repeated courses.

$$\text{CGPA} = \frac{\sum (\text{CR} * \text{QP})}{\sum (\text{CR})}$$

Where:

CGPA = Cumulative Grade Point Average

CR = Credit value for each course taken (passed or failed)

QP = Quality Points earned from the grade for each course taken (passed or failed)

### CUMULATIVE GRADE POINT AVERAGE (CGPA) DEGREE CLASSIFICATION

To ensure a high quality of Babcock University graduates trained for the employment market, further studies and society at large, the institution, by policy, does not issue “Ordinary Pass” degrees. This is in addition to the generally higher recommended grade point averages than recommended in the Minimum Academic Standards policy book of the National Universities Commission. Degree Classification shall be according to the following criteria:

First Class	- 4.50-5.00
Second Class Upper	- 3.50-4.49
Second Class Lower	- 2.50-3.49

**REPEATING CLASS/COURSES**

An undergraduate student may repeat only ONCE a course in which he/she has not earned the minimum “Pass” grade (Core Course = 50%; General Education Course = 40%). Students are required to repeat courses for which they did not obtain the minimum “Pass” grade. All subsequent repeats (beside the first one) will be counted in the computation of the CGPA. The “Fail” grade received in a repeated course is not expunged from the academic record.

Students are not eligible to graduate with First Class Honours if they: (a) have repeated a course(s); (b) have not carried a minimum of 16 credit units for each semester enrolled with the exception of the last semester in residence and (c) have not completed the last half of the work required for their degree in residence at Babcock.

When a course with laboratory practicals is repeated, it is required that the practicals also be repeated. In a sequence type course, a student who earns an “F” or “WP” for one semester must automatically repeat that course before being permitted to enroll or remain enrolled in subsequent courses in that sequence. Repeat courses not passed may prevent registration authorization for subsequent serial or more advanced courses until the deficiency is remedied. Course listing will be as follows: General Courses, Core/Required Courses, and Electives.

**SENIOR VICE PRESIDENT/DEPUTY VICE-CHANCELLOR’S SUPERIOR  
ACADEMIC PERFORMANCE LISTS****Academic Honour List A:**

To be on this list, a student must have a semester GPA of between 4.50 and 5.00. The student must be enrolled full-time, carrying a minimum load of 16 credits, all with letter grades of C or above, and has no incomplete result. Each semester this list may be published.

**Academic Honour List B:**

A student with a semester GPA of between 4.00 and 4.49 is eligible to be on this List. The other requirements on Academic Honour list also apply. Each semester this list may be published.

**ACADEMIC PROBATION**

- a. A student whose Cumulative Grade Point Average (CGPA) falls below 2.00 at the end of a semester is placed on academic probation. Such a student will be served a letter of warning, informing him of his status.
- b. If a student’s CGPA is still below 2.00 at the end of the subsequent semester, the student becomes subject to suspension from the University for low academic performance.
- c. Such a student in (b) may be recommended for a University remedial programme and may be readmitted into the University programme upon evidence of academic improvement.
- d. If conditions (a) and (b) above become applicable again to the same student, or if a student during a given semester earns a semester GPA of 1.00 or less, such a student shall be asked to withdraw from the programme or from the University for academic

reasons.

- e. A 100 level student who obtains a CGPA of less than 2.00 at the end of the first year after having obtained a GPA and CGPA of less than 2.00 in the consecutive 1<sup>st</sup> and 2<sup>nd</sup> semesters shall be permitted to repeat failed courses and/or change program of study without going on academic suspension.
- f. Where a student has been asked to go on suspension for academic reasons, the Head of Department shall work with the Student Support Services to determine if and which other program of study may be appropriate for the student upon return from suspension. The request of such a student shall then be forwarded for Senate approval for program change and program re-design through the HOD, Dean, School Academic Board, DVC/SVP and Senate.
- g. A student on academic probation shall register for a minimum of 12 and maximum of 16 credits. Carrying a higher load may jeopardize chances of earning the grades necessary to make proper academic improvement. Carrying a lower load makes the student lose the status of “regular full-time” and may jeopardize chances of earning sufficient quality points to raise the CGPA to the required level within the time limits specified. Grades earned on a lower course load also may not be significant indicators of academic ability. Such a student is expected to limit extra-curricular activities and work study employment as long as he is on academic probation.
- h. A student who has been suspended for academic reasons may reapply after one school year has elapsed. Readmission is considered by the Academic Standards Board only if the student gives evidence of having significantly improved his/her ability to pursue university studies. If any student is dismissed for academic reasons after such readmission, he/she may not be admitted again.

## **ACADEMIC HONESTY**

Babcock University has a zero tolerance for any form of academic dishonesty. Morally and spiritually, the institution is committed to scholastic integrity. Consequently, both students and staff are required to maintain high, ethical Christian levels of honesty. Transparent honest behavior is expected of every student in all spheres of life. Academic dishonesty issues include such practices as plagiarism, unauthorized use of notes or textbooks (hard or digital copies) in quizzes and examinations, copying or spying on the test paper of another student (formal or take-home), talking to another student during examinations. Such academic matters would automatically result in a failing grade for the examination, and suspension, or outright dismissal from the University. Academic dishonesty issues are referred to Senate Panel on Examination and Academic Misconduct (SPEAM) who investigates and makes recommendations to Senate. Penalties for examination and academic misconduct are spelt out in the students’ handbook and in other regulations as published from time to time.

## **Teacher Responsibility**

- a. Teachers must explain clearly the requirements and regulations for assignments, examinations, and projects, such as “open book” or “peer collaboration”. It is expected that the teacher’s course outline (syllabus) should be explicit on the regulations.
- b. Teachers may assume “no collaboration” is the rule unless they state otherwise.

## **Student Responsibility**



- a. Students assume responsibility to avoid plagiarism by learning the proper procedures for acknowledging borrowed wording, information, or ideas. Otherwise students might innocently misrepresent others' material as their own.
- b. Students unfamiliar with procedures for citing sources should confer with their lecturers to seek clarifications.
- c. Students are to assume that all course work is "no collaboration" unless stated otherwise by the lecturer.
- d. Students must endeavour to have, at least, a textbook per course.

### **Departmental Responsibility**

Some departments, because of the nature of their programs, have additional honesty policies which have the same force as those published here. Such policies will be presented to students before implementation.

### **Procedures for Handling Academic Dishonesty**

When a teacher or examination invigilator suspects academic dishonesty in some form, such as cheating or plagiarism, the lecturer must first confront the student with the dishonesty and document the confrontation before witnesses, if available. Then the case should be referred to Senate Panel on Examination and Academic Misconduct (SPEAM), who would notify the department promptly. A student may appeal Senate's decision either for leniency or misjudgment.

### **TRANSCRIPTS**

The Registrar's Office issues transcripts of students' academic record on written and signed request by the student. No transcript can be released until all financial obligations to the university are met. The first transcript (STUDENT COPY) is issued free. All subsequent transcript requests attract fee and are sent only to the requesting institution.

#### ***Transcript Request from Expelled Student***

A student who is expelled (dismissed) from Babcock University may not usually be readmitted into the University, except in rare cases of executive pardon. However, in view of our unique redemptive philosophy and outlook on Christian education, the request for transcript from an expelled (dismissed) student would be granted and processed so as not to completely block the student's future progress life.

### **SEQUENCE OF COURSES**

A student may not receive credit for a course which is a prerequisite to a course for which the student already received credit. Also, students are not allowed to take upper level courses when they have not completed their lower level courses.

### **GRIEVANCE PROCEDURE**

A student who believes that his/her academic rights have been infringed upon or that s/he has been unjustly treated with respect to his/her academic program is entitled to a fair and impartial consideration of his/her case. S/He should do the following to address his/her concerns:

1. Present their case to the teacher(s) concerned. The teacher is required to attend to the student's complaint within five working days.

2. If necessary, discuss the problem with the Head of Department. The HOD is required to attend to the student's complaint within two working days.
3. If agreement is not reached at this level, submit them later to the School Dean (and the Provost, in case of Postgraduate students). The Dean is required to attend to the student's complaint within two working days.
4. Finally, ask in writing (through the Head of Department, Dean and Provost) for a review of the case by the Grievance Committee.
5. A fee is charged to the student for remarking of scripts. Evidence of payment of the fee must be attached to the letter asking for remarking of scripts. If a student's grievance is upheld after an external examiner has remarked the script, the grade awarded by the external examiner would be credited to the student. The lecturer will be given a letter of reprimand and will be asked to refund the fees to the student. If the student's grievance is not sustained, the student will be given a letter of reprimand and the original grade retained.

Both the student and the teacher involved in the case shall be invited to appear before the committee or to present a written statement of the case. The decision of the committee shall be presented in writing to the individuals involved within three days of the committee's meeting unless a later time is agreed upon by both parties. The decision of the committee is binding and will be implemented by the lecturer involved or the Deputy Vice-Chancellor/Senior Vice President. Legal representation is not allowed before university committees.

### **FEES FOR REGRADING**

1. Whereas, there may be situations when a student will complain about grades and,
  2. Whereas, the Lecturer may have satisfactorily re-checked his records and
  3. Whereas, there may be a need for an external Assessor to re-grade the script based on the question paper, marking scheme and course materials
- a) Applications for re-grading of results will be made through the registry and paid for by the student
  - b) This process will be carried out between the Registry, the Dean and the external Examiner without the knowledge of the Student or Lecturer involved (in order to protect the integrity of the University, the Lecturer and the Student)
  - c) The application fee for re-grading of examination results is (N5,000.00). This amount is subject to review as deemed necessary by the University Administration.
  - d) If the Student wins, the grade would be credited to the Student, the Lecturer will be given a letter of reprimand and will refund the fees to the Student.
  - e) If the Student loses, he/ she will be given a letter of reprimand as a deterrent to others and will be asked to repeat the course.

### **GENERAL GRADUATION REQUIREMENTS**

Responsibility for meeting degree requirements rests upon the student. Each student is expected

to be aware of the various requirements as published in the academic *Bulletin* under which the student is to graduate. The academic *Bulletin* in force at the time of initial registration is the binding document between the student and the university. However, a student may file an official petition with the office of the Dean of his/her School through the Head of the Department, requesting to be allowed to meet the requirements of another *Bulletin* in force during his/her time of residence. Because of the unique nature of the postgraduate programmes, the general and specific requirements and regulations for graduation for postgraduate students are well spelt out in the PG *Bulletin*.

General requirements and regulations for the undergraduate academic programmes are:

1. The completion of minimum required semester credits as determined by each department as published in the university undergraduate *Bulletin*
2. Earn the minimum passing grade (Core Course = 50%; General Education Course = 40%) in all credits earned at Babcock University.
3. A minimum grade point average of 2.50 on the 5.00 point scale
4. A student is not allowed to apply all the credits earned for one baccalaureate degree to earning a second degree in the same university. If a second (different) baccalaureate degree is desired, the student must complete at least half of the required credits beyond those required for the first baccalaureate degree and must meet all of the published requirements of the second degree.
5. All graduating students are required to complete a research project prior to graduation.
6. In a situation where a student has met all academic requirements, passing all GEDS courses with a minimum of “D” grade and “C” grade in core courses and the CGPA still falls below 2.50, such a student should be allowed to graduate with the Third Class grade.

### **STUDENT INDUSTRIAL WORK EXPERIENCE SCHEME (SIWES)**

SIWES was initiated in 1973 by the Industrial Training Fund (ITF). This was in response to the mandate given to the ITF by the Federal Government, through decree 47 of 1971, charging it with the responsibility of promoting and encouraging the acquisition of skills in Industry and Commerce, with the view to generating a pool of trained indigenous manpower sufficient to meet the needs of the economy.

The National Universities Commission in its Minimum Academic Standards document, in line with the ITF mandate, requires students in all Nigerian Universities to embark on a six-month single 0–0 stretch supervised and evaluated industrial attachment with relevant organizations. This is consistent with the Seventh-day Adventist philosophy of wholistic education which involves training the 3Hs - head, heart and hands. Only programmes that are accredited for SIWES by the ITF and the NUC are eligible to participate in the scheme.

### **POST SIWES SECOND SEMESTER**

Usually, SIWES programme runs from January to June. By this, students who engage in SIWES programme are dislodged from the normal Second Semester on the University Calendar. In order not to extend the duration of their residency, students returning from SIWES programme are required to register for and take their Second Semester courses in a post SIWES Second Semester scheduled to run from the first week in July to the last week in August. Thus, they resume for the regular First Semester of the subsequent school year in September, alongside other students.

## **WITHDRAWAL FROM THE UNIVERSITY**

### **Withdrawal on Academic Grounds**

Any student whose Cumulative Grade Point Average (CGPA) falls below 2.00 at the end of a semester is placed on academic probation. Students will be served letters of warning, informing them of their status. If the student's Cumulative GPA is still below 2.00 at the end of the subsequent semester, he/she becomes subject to suspension from the University for low academic performance. Details of this are contained in the 'Academic Probation' section.

### **Voluntary Withdrawal**

Students may withdraw voluntarily from the university at any time upon completion of the official withdrawal forms obtainable from the office of the Registrar. Such students may retain the records and grades **for all the** courses completed. Students who have withdrawn voluntarily from the university may apply to the Registrar for re-admission not later than two (2) years after the withdrawal. Policies on residency apply upon readmission (see the section on Student Residency).

### **Withdrawal for Disciplinary Reasons**

Students who are asked to withdraw for disciplinary reasons may only be re-admitted into the university with the permission of the university Senate on conditions to be clearly spelt out in the letter of re-admission.

### **Withdrawal on Health Grounds**

A student may request or be asked to withdraw from the university on health grounds upon due certification of a university-approved Medical Officer. The student's readmission into the university is conditional upon production of a valid medical certificate of clean bill of health duly signed by a university-approved Medical Officer.

## **STUDENT WITH DISABILITIES**

Babcock University seeks to provide a conducive environment for optimal living and learning experience. While the university is working towards facilities that accommodate persons with disabilities, provisions will be made for students with disabilities under the following conditions. Students with disabilities are to:

- a. Report to Student Support Services for assessment, and obtain a clearance/recommendation at the commencement of the semester or as soon as disabling incidence occurs
- b. Show the clearance/recommendations to relevant university officials at the commencement of the semester or as soon as disabling incidence occurs
- c. Maintain ongoing contact with Student Support Services

## **ILLEGAL TEXTBOOKS**

Any Lecturer, Department or School that coerces students to buy unapproved textbooks and do assignments or tests inside them, will be sanctioned by the Staff Disciplinary Committee.

## **EDUCATIONAL SUPPORT SERVICES**

## **LAZ OTTI MEMEORIAL LIBRARY**

An academic library is like a growing organism and so also is the collection and user population. Adekunle Alalade Library has evolved through the years from 1959 to date serving as a College, Seminary and now University Library. This transition presented various forms of challenges which of course were not insurmountable. The main library is situated at the centre of core academic area of Babcock University and serves as the academic resource of last recourse. Since no university can rise above the status of her library, conscious efforts are continually made to reposition the library for greater service.

### **VISION**

A top rank provider of research and instructional materials in a user-friendly environment encapsulated with missionary zeal and infections competence.

### **MISSION**

Support the university mission through the provision of current and broad spectrum research, teaching and learning materials for transforming lives and impacting society positively.

### **OPENING HOUR**

The Library opens from 8:30 a.m. to 9.00 p.m. Mondays through Thursdays, 8:30 a.m. to 1:00 p.m. on Fridays, and 12 noon to 9.00 p.m. on Sundays.

There are five (5) branch libraries located within the host school or department that caters for the information, research and learning needs of users.

- i) EAH I Library: This is located on the right wing upstairs of School of Education and Humanities. It is a departmental library for students of Religion and Theology.
- ii) EAH 2 Library: This is located downstairs below EAH I Library. It serves students of History and International Studies.
- iii) SAT I Library: School of Science and Technology is the home for all Science courses offered. All science, medical and allied courses materials are housed there except Nursing.
- iv) SAT 2. Library: This is located downstairs directly under SAT I Library. The collection is solely on Nursing.
- v) Law Library: The Law library at Iperu Campus is fully air-conditioned and internet driven with high quality stock including Law Reports, Law Reviews, Judgments of Supreme Court of Nigeria and high profile Journals.

The library subscribes to over 5,000 electronic journals and 630 hardcopy journals with a total book stock of about 63,000 volumes.

The main library's internet service is superb with several computers connected to the library's server manned by the Systems Librarian. Internet search is free for all registered students and staff of the university. Users need no password to connect to the net. However, when our bonafide users are outside the premises password for our subscribed e-journals are issued to them for easy access to e-journals from their location.

## **COMPUTER LABORATORIES**

There are four medium-size and one large ambient computer laboratories for smart teaching, learning and hands-on experience to meet current computing challenges. Each medium-size laboratory is equipped with fifty (50) networked workstations with essential software installed, and complemented with a projector. The large laboratory has two hundred and twenty (220) computing stations with eight (8) servers providing optimum computing power and necessary software. The large laboratory also serves as a smart classroom with a smart-board and two projectors. Internet access is available in these laboratories.

The New Horizon Computer Learning Center has five computer training rooms equipped with total of four hundred and ten (410) desktop computers and five (5) projectors, and a programme examination room equipped with eight (8) workstations to provide computing fundamentals and application hands-on training, and computing certification preparation services.

## **ADVENTIST WORLD RADIO**

The Adventist World Radio (AWR) Nigeria Studio is a public outreach service arm of Babcock University, presenting a total of 1,456 thirty minutes programmes a year combined in Hausa, Igbo, Yoruba and Pidgin languages on the shortwave (SW) Band. Located in the annex of the University Church building, it is continually updated with the latest in computerized professional radio recording and production equipment, housed within a fully sound proofed environment. Programmes production are consistently done daily by the super-efficient team of qualified workers engaged to operate this high-tech studio. AWR Studio is open to the commercial public who may want to produce music, drama or jingles but within the educational and gospel realms only. Prior to the debut of the University FM station christened Hope 89.1 FM, the studio over the years served as audio laboratory for the Mass Communication students and the drama production laboratory for English and Literary Arts students of Babcock University.

## **Hope 89.1 FM**

With the Campus/Community license for broadcasting on the FM band secured in 2009, the University Campus Station, domiciled in the Education and Humanities (EAH) building transmits on 89.1 Mhz frequency to the two university's campuses and their neighbouring communities. Having been in full operation, since it was commissioned on May 31, 2012, Hope 89.1 FM remains the major hands-on training hub for Mass Communication students' practical sessions especially in radio broadcast writings and presentations. It is also a service outlet to many departments of the University whose programmes are a strong reflection of Adventist philosophy of education and outlook to a healthy lifestyle, spiritual growth and vibrant family relations. Additionally, through Adventist World Radio programmes and other spiritual programmes aired on Hope 89.1 FM, many listeners have come to know the good news of salvation, the truth of the Sabbath, with many streaming into the Seventh-day Adventist Churches in their areas.

## **West Central African Division (WAD) Media Center**

In 2019, Hope Channel International (the satellite TV arm of the Seventh day Adventist Church) in partnership with Babcock University set up on the University Campus 'WAD Media Center' an ultra-modern television production studio for programmes production works for Hope Channel International. This studio will also serve the University on major fronts like being naturally the major hub for TV writing and presentation production activities for Mass Communication Department students. Since the complete installation of the studio equipment in

January 2020, the studio started off in March 2020, offering rich spiritual, health, children and family life programmes to thousands of viewers through Facebook and YouTube. These activities will translate to actual transmissions on Hope Channel International satellite broadcasts. The University ultimately hopes to secure an educational TV broadcast license from the Federal Government of Nigeria and then broadcast to its local environs in the future.

**ELLEN G. WHITE & SDA RESEARCH CENTER:** The Ellen G.White & SDA Research Center is an Adventist heritage collection of Spirit of Prophecy materials, published and unpublished, which are released from time to time by the Ellen G.White Estate. Established in 1990 to further enhance the diffusion of hitherto unavailable materials in this part of the world Division (West-Central Africa Division), , the potential of the center is great in terms of workshops, seminars and reproduction at affordable costs of research materials in the area of denominational history, inspiration and revelation.

**BABCOCK UNIVERSITY SCHOOLS** Babcock University Staff School and Babcock University High School are two feeder institutions that serve the multiple purposes of preparing children for higher education, bringing to the doorstep of the local resident qualitative holistic education at an affordable cost, and fulfilling the global education at the lower level within the Babcock constituency. Giant strides have been covered as demonstrated by the excellent results of the pupils in nation-wide public examination. Another commendable fact is that they maintain an autonomous existence and self balancing budget.

This bulletin presents answers to general questions regarding academic policies. Students with unique problems and special circumstances should consult the appropriate programme coordinator.

## **BENJAMIN S. CARSON COLLEGE OF HEALTH AND MEDICAL SCIENCES**



***Professor Barnabas M. MANDONG***  
***PROVOST***



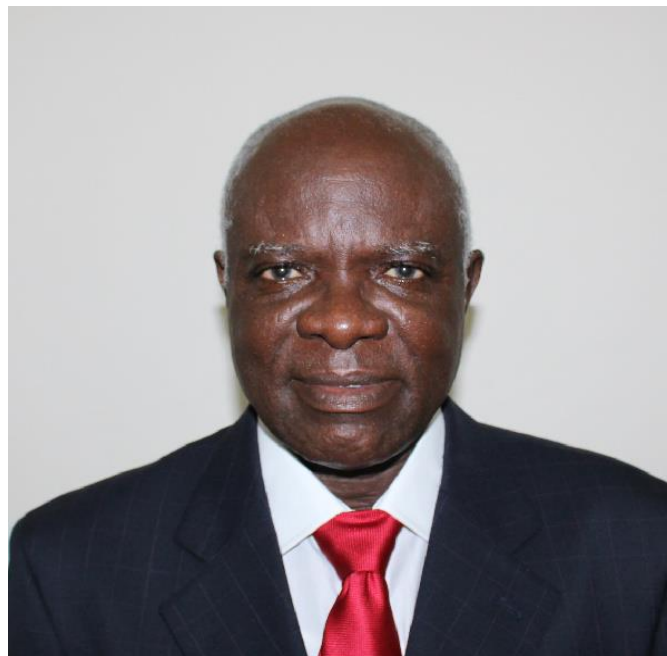


***Muyiwa AJAYI***  
***COLLEGE SECRETARY***



***Ifeoma H. AYENI***  
***SCHOOL OFFICER***

**SCHOOL OF BASIC MEDICAL SCIENCES**





***Professor Olugbenga ADEBAWO***  
***DEAN***

**DEPARTMENT OF ANATOMY**



***Prof. Ayodele B. O. DESALU***

## **HEAD OF DEPARTMENT**

### **ACADEMIC STAFF**

S/ N	NAME	RANK	QUALIFICATION	AREA OF SPECIALIZATION
1	DESALU A.B.O.	Professor	MB,Ch.B, M.Sc, PhD	Neuroscience
2	OGUNNAIKE P. O.	Associate Professor	BSc , M.Phil, PhD, FBACA	Histochemistry & Neuroscience
3	OWOLABI J. O.	Senior Lecturer	BSc, MSc, PhD	Neuroscience, Toxicology And Anatomical Education
4	BEJIDE A.R	Senior Lecturer	FMLSCNpath, MSc, PhD	Histochemistry, Immunohistochemistry Cytology & Histology Histopathology & Cytopathology
5	OLUWATOSIN A.T.	Lecturer I	BDS, MSC	Reproduction
6	OLATUNJI S.Y.	Lecturer II	BSc, MSc, PhD	Developmental Neuroscience/ Epilepsy Research, Neurotoxicity and Comparative Anatomy
7	OLANREWAJU J.O.	Lecturer II	BSc, MSc	Neuroscience/ Neurodegeneration/ Memory and Cognitive Impairment/ Cancer
8	ADETUNJI O. A.	Assistant Lecturer	BSc, MSc	Neurotrauma and Endocrinology
9	ADELODUN S.T.	Assistant Lecturer	BSc ,MSc	Reproduction, Endocrinology, Neuroscience
10	OGUNYEMI O. E.	Assistant Lecturer	BSc, MSc	Reproduction, Endocrinology
11	AJIBADE Testimony	Graduate Assistant	BSc,	
12	AJIBOYE O. J.	Graduate Assistant	BSc,	
13	ADENIJI K. O.	Graduate Assistant	BSc,	

### **ADJUNCT STAFF**

14	AYANNUGA O.A.	Senior Lecturer	MBBS, MSc, PhD	Developmental Neuroscience/ Epilepsy Research
15	IMOSEMI I.O.	Senior Lecturer	Bsc, MSc, PhD	Neuroscience/ Embryology
16	SHALLIE P. D.	Senior Lecturer	Bsc, MSc, PhD	Neuroscience/ Embryology

### **TECHNICAL STAFF**

S/N	NAME	RANK	QUALIFICATION
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17	FABIYI O. S.	Senior Technologist	BSc , MSc
18	ADELAKIN L	Laboratory Technologist	BSc, MSc
19	OBAOYE A. G.	Laboratory Technologist	BSc
20	SAMBO A. J	Laboratory Technologist	BSc
21	ROGERS M.A	Mortician	Diploma in Mortuary Science
22	ALALADE Fikayo	Lab. Attendant	O'Level
23	FRIDAY Kingsley	Lab. Attendant	O'Level
24	BRIGHT Ngozi	Lab. Attendant	O'Level
25	SHOBOWALE Folorunsho	Lab. Attendant	O'Level

## **PHILOSOPHY OF THE DEPARTMENT**

The Bachelors of Science in Anatomy program is designed to train biomedical scientists and educators in an atmosphere of intellectual quest and individual creativity to equip them for research, educational and health services that will ensure wholesome contribution to the health industry.

## **VISION STATEMENT**

Purposeful Training of Medical Scientists to proffer health solutions through best quality services and with a sense of purpose and adequate skills for competence.

## **MISSION STATEMENT**

Employing teaching and research towards addressing health anomalies and improving the quality of life and living.

## **AIMS/OBJECTIVES**

At the end of the programme, the students should be able to:

1. Demonstrate detailed knowledge and understanding of the various aspect of Anatomy so as to provide solid foundation for the correlation of structure with function so as to be able to contribute positively to research and total person care
2. Apply their knowledge and skills to the solution of theoretical and practical problems in Anatomy and its applications to provision of relevant applied anatomical and health services.
3. Appreciate the expediency of Anatomy in industrial, economic, environmental, health and social context

## **ENTRY REQUIREMENT**

Prospective candidates for the program must have five Ordinary Level Credits or equivalent in English Language, Mathematics, Biology or Health Science, Chemistry, and Physics in not more than two sittings. In addition candidates must sit and pass the Babcock University screening test (written and oral).

## **DEPARTMENTAL REQUIREMENT**

The Department would require that all students must have been duly admitted into the University based on the criteria set by the University administration in line with the standard regulations. To sustain or retain studentship, every student must have evidence of due registration for every academics year. A students must meet the minimum and maximum credit unit lead per semester as stipulated in the general university bulletin.

## **BACHELOR OF SCIENCE IN ANATOMY (B.Sc. HONS)**

### **100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION REQUIREMENTS</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 112	Health Principles	-	2
GEDS 107	Introduction to General Psychology	2	-
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-

GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian Peoples in a Global Culture	-	2
	<b>CORE COURSES</b>		
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
ANAT 112	Fundamentals of Mammalian and Human Anatomy	-	3
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
	<b>TOTAL (46 Credits)</b>	<b>22</b>	<b>24</b>

**BACHELOR OF SCIENCE IN ANATOMY (B.Sc. Hons)**  
**200LEVEL COURSE**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION REQUIREMENT</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	2	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
GEDS 260	Environment and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 280	Leadership Skills	-	2
	<b>CORE COURSES</b>		
*ANAT 201	Gross Anatomy of the Limbs	3	-
*ANAT 202	Gross Anatomy of the Trunk	-	3
ANAT 204	<b>Systemic Histology</b>	-	3
ANAT 206	<b>Systemic Embryology</b>	-	3
*ANAT 207	General Histology and Cytology	3	-
*ANAT 209	<b>General Embryology</b>	3	-
PHGY 201	Introduction to Physiology	2	-
PHGY 208	Cardiovascular Physiology	-	3
PHGY 212	Respiratory Physiology	-	3
PHGY 213	Blood and Body Fluid Physiology	3	-
BCHM 201	Foundations of Biochemistry I	3	-
BCHM 202	Foundations of Biochemistry II	-	3
	<b>TOTAL (52 Credits)</b>	<b>26</b>	<b>26</b>

\*To be taken by B.Sc. Anatomy and B.Sc. Physiology students

## BACHELOR OF SCIENCE IN ANATOMY (B.Sc. HONS)

### 300 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION REQUIREMENTS</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E- Customers Relationship Management	-	2
	<b>CORE COURSES</b>		
ANAT 301	Gross Anatomy of Head and Neck	4	-
ANAT 304	Radiological Anatomy	-	2
ANAT 305	Histological and Histochemical Techniques	3	-
ANAT 309	Histochemistry	3	-
ANAT 313	Biomedical Genetics	3	-
ANAT 314	Cell Biology and Tissue Culture	-	3
ANAT 315	Museum and Gross Anatomical Techniques	3	-
ANAT 316	Anthropology and Comparative Anatomy	-	3
ANAT 317	Introduction to Clinical Anatomy	3	-
ANAT 318	Neuroanatomy	-	4
ANAT 319	Introductory Pharmacology	3	-
ANAT 324	Research Methodology and Animal Handlings	-	3
PHGY 304	Endocrinology	-	3
	<b>TOTAL (47 Credits)</b>	<b>25</b>	<b>22</b>

**BACHELOR OF SCIENCE IN ANATOMY (B.Sc. HONS)**  
**400LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
ANAT 401	Teratology	2	-
ANAT 402	Human Reproductive Technologies	-	3
ANAT 403	Seminar in Microanatomy	4	-
ANAT 404	Seminar in Gross Anatomy	-	4
ANAT 406	Research seminar	-	3
ANAT 407	Molecular Biology and Genetic Engineering	3	-
ANAT 408	Introduction to Histopathology	-	3
ANAT 409	Developmental Mechanics	3	-
ANAT 417	Biostatistics	3	-
ANAT 490	Research Project	-	6
	<b>* ELECTIVE COURSES</b>		
ANAT 411	Applied Anatomical Sciences and Skills	3	-
ANAT 412	Fundamentals of Anatomical Education	-	3
ANAT 413	Introduction to Mortuary Science and Remains Preservation	3	-
ANAT 414	Entrepreneurial Anatomy	-	3
ANAT 415	Forensic Anatomy and Morphological Analysis	3	-
ANAT 416	Laboratory Techniques for Light Microscope and Introduction to Electron Microscope	-	3
	<b>TOTAL (47 Credits)</b>	<b>23</b>	<b>24</b>

\*Students **SHOULD** choose one elective from the elective courses per semester.



## **BACHELOR OF SCIENCE IN ANATOMY (B.Sc. HONS)**

### **COURSE DESCRIPTIONS**

#### **ANAT 112: FUNDAMENTALS OF MAMMALIAN AND HUMAN ANATOMY 3 Credits**

The human body- as designed by God- has many parts that work together to ensure wholeness and completeness in function [Ephesians 4:16].

Students are expected to have adequate knowledge of the human and mammalian biology prior to their entry into the Basic Medical Programmes; this should form an adequate foundation upon which the advanced forms of Biomedical Sciences would be laid. This course considers the fundamental knowledge of the body structure and organization. Major topics of consideration will include: Basic Structural Organisation of the Human Body [Cells-Tissue-Organ System]; Overview of Human Development; Body Systems Basic Anatomy and the Functions [Digestive, Reproductive [male and Female], Respiratory, Integumentary, Nervous, Urinary, Cardiovascular, Immune]

#### **ANAT 201: GROSS ANATOMY OF THE LIMBS 3Credits**

The course considers Gross and Functional Anatomy of the Upper limbs; Thorax; Abdomen; Pelvis and Perineum. Biblical Principle- the body is a whole, but has parts that work together [1 Corinthians 12:12; Romans 12:4].

Objective of this course is to provide an in depth theoretical and practical knowledge of structures of the human limbs together with their bones. This would cover the following- General Introduction; Osteology; Axilla and its contents; Breast; Shoulder region; Upper arm; cubital fossa; Forearm and hand; Joints of Upper Limb; Front and medial side of thigh; Gluteal region; Back of thigh and popliteal fossa; Leg and foot; Joints of lower limb; Arches of foot.

#### **ANAT 202: GROSS ANATOMY OF THE TRUNK 3 Credits**

Breath is necessary for life [Genesis 2:7] and activities [Psalm 150:6]; the sustenance of life in the blood [Leviticus 17:11-14]; and the womb conceives [Jeremiah 1:5; Luke 1:3] as designed by God.

This would include in depth theoretical and practical knowledge of the Thoracic walls; Mediastinum; Pericardium and Heart; Pleura and Lungs; Emphasis is laid on the functional and applied aspects. Abdominal walls and external hernias; external genital organs; peritoneum; Gastrointestinal tract and the associated glands; Diaphragm; Pelvis and Perineum.

#### **ANAT 204: SYSTEMIC HISTOLOGY 3 Credits**

God knows our substance [Psalm 139- 13\*, 14\*, 16\*]

Histology of the systems; gastrointestinal tract and associated glands; Urinary organs; Male and female genital organs, Respiratory histology, cardiovascular system, Lymphoid system, Integumentary system, Endocrine system and Neurohistology and histology of Special senses

#### **ANAT 206: SYSTEMIC EMBRYOLOGY 3 Credits**

God is aware and orders of the very complex process of embryogenesis [Psalm 139: 13-16]

Cardiovascular: Cardiac development (early cardiac morphogenesis, cardiac looping, cardiac septation and differentiation, aortic and pulmonary arch development) Fallot's Tetralogy.

Nephrology: Development of kidney; ureter; urinary bladder and urethra and their malformations; Prostate gland; Uterus, uterine tubes; vagina; external genitalia both male and female. Development and descent of testis and ovary

Respiratory system: Development of upper and lower respiratory tracts.

Digestive system: Development of the oesophagus, Stomach and intestine and abnormalities

Biliary system: Development of intra and extra hepatic biliary system, and atresia.

Endocrine: Development of thyroid gland and gonads, Embryology of the Nervous system and Pharyngeal Apparatus.

### **ANAT 207: GENERAL HISTOLOGY AND CYTOLOGY**

**3 Credits**

God knows our substance [Psalm 139- 13\*, 14\*, 16\*]

Microscopic structure of the cell, various types of tissues of the body- epithelial, connective, muscular, and nervous tissues.

### **ANAT 209: GENERAL EMBRYOLOGY**

**3 Credits**

God is aware and involved in the process of creation and development [Genesis 1:28; Psalm 139: 13-16; Genesis 30:22; **Psalms 22:9-10**]

Origin of germ cells; spermatogenesis and oogenesis; sex determination; menstruation; ovarian cycle and ovulation. Fertilisation, cleavage and gastrulation, formation of germ layers; notochord and neural tube; foetal membranes, placenta; foetal circulation and changes after birth. Congenital malformations.

### **ANAT 221: GROSS ANATOMY I**

**3 Credits**

The course considers Gross and Functional Anatomy of the Upper limbs; Thorax; Abdomen; Pelvis and Perineum. Biblical Principle- the body is a whole, but has parts that work together [1 Corinthians 12:12; Romans 12:4]. General overview of Osteology; Axilla and its contents; Breast; Shoulder region; Upper arm; cubital fossa; Forearm and hand; Joints of Upper Limb; Thoracic walls; Mediastinum; Pericardium and Heart; Pleura and Lungs; Emphasis is laid on the functional and applied aspects. Abdominal wall and external hernias; external genital organs; peritoneum; Gastrointestinal tract and the associated glands; Diaphragm; Pelvis and perineum.

### **ANAT 224: GROSS ANATOMY II**

**3 Credits**

Breath is necessary for life [Genesis 2:7] and activities [Psalm 150:6]; the sustenance of life in the blood [Leviticus 17:11-14]; and the womb conceives [Jeremiah 1:5; Luke 1:3] as designed by God.

General overview of the osteology of lower limbs and the skull; Front and medial side of thigh; Gluteal region; Back of thigh and popliteal fossa; Leg and foot; Joints of lower limb; Arches of foot. Meninges, Scalp, temple and face; salivary glands; thyroid, parathyroid and thymus. Deep structures of the neck; Infratemporal fossa; mouth; pharynx and larynx; ear, eye. Nasal cavity; Paranasal air sinuses; Neuroanatomy; Nerve cells, spinal cord and the brain.

### **ANAT 222: MICROSCOPIC ANATOMY AND CYTOLOGY**

**3 Credits**

The structures of our bodies are wonderfully organised as seen in microscopic view [Psalm 139: 14]; this wonderful structure is His temple [1 Corinthians 6: 19 – 20]

General overview of the microscopic structure of the cell, various types of tissues of the body- epithelial, connective, muscular, and nervous tissues. Histology of the system; gastrointestinal tract and associated glands; Urinary organs; Male and female genital organs, cardiovascular system, Lymphoid system, Integumentary system, Endocrine system and special senses

**ANAT 301: GROSS ANATOMY OF HEAD AND NECK 4 Credits**

The head is the 'seat' of control for the body, housing the brain and mind, hence its importance and special reference [Ephesians 5:23]. The head bears the body lamp [Matthew 6:22-23].

Osteology of the skull and cervical vertebrae, cranial cavities and meninges, dural venous sinuses. Scalp, temple and face; Triangles of the neck, Deep structures of the neck, salivary glands; thyroid, parathyroid and thymus, Temporal and Infratemporal regions, mouth, pharynx, palate, and mechanism of deglutition; Nasal cavity, paranasal air sinuses, larynx, ear, orbital cavity and eyeball. Lymphatic drainage of head and neck.

**ANAT 304: RADIOLOGICAL ANATOMY 2 Credits**

God knows our substance [Psalm 139- 13\*, 14\*, 16\*]

Anatomical imaging to include, X-ray, contrast studies, ultrasound, thermography, CAT scan and magnetic resonance imaging correlated with sectional anatomy of all parts of the body.

**ANAT 305: HISTOLOGICAL AND HISTOCHEMICAL TECHNIQUES 3 Credits**

True education requires adequate acquisition of knowledge and technical skills to build characters in service to God and mankind [2 Timothy 2:15; Phil. 1:9-10]

Origins of histology and histochemistry. Theoretical and practical studies of histochemistry and histology. Various stains in histology; Histochemical techniques for demonstrating carbohydrates, proteins, fat enzymes minerals and pigments. Quantitative histochemistry; Ultrahistochemistry.

**ANAT 309: HISTOCHEMISTRY 3 Credits**

God knows our substance [Psalm 139- 13\*, 14\*, 16\*]

Histochemistry is a major subspecialty in Anatomy that considers the chemical compositions of tissues in-situ and from morphological, biochemical and molecular perspectives. Topics to be considered include: Introduction to Histochemistry; General Principles of Histochemistry; Histochemistry of Proteins; Histochemistry of Lipids; Histochemistry of Carbohydrates; Histochemistry of Nucleic Acids; Enzyme Histochemistry; Specific Histochemical Demonstrations of Anomalies and Artifacts; Immunohistochemistry and Autoradiography; Quantitative Histochemistry; Applications of Histochemistry

**ANAT 313: BIOMEDICAL GENETICS 3 Credits**

Creature were made by God after their own kinds [Genesis 1: 24-25] and He made all things [John 1:3].

Genetics is a very wide field of study; the primarily applicable part to Biomedical Science courses is the Medical Genetics. It is important that this should primarily constitute the core content of the Genetics that students in Anatomy Department should offer. Major topics to be considered include: Genetics- Historical Background & Overview; Chromosomes- Forms and Function; Chromosomal Disorders and Aberrations and Implications on Life and Living; DNA and RNA- Forms and Functions; Genetic Disorders of Metabolism; Patterns of Inheritance.

**ANAT 314: CELL BIOLOGY AND TISSUE CULTURE 3 Credits**

God's wonders are made manifest in the form and functions of body cells [Psalm 119]

Principles of cell and tissue culture, harvesting of cell and tissue, media, culture, sterilization methods; Principles of electron microscopy and tissue preparation. Ultramicrotomy, staining

procedures, scanning and transmission electron microscopy, Structure of all cellular organelle and their appearances under the electron microscope; Ultrastructure of all individual cells. electron microscopy in heretoduplex mapping and molecular biology.

**ANAT 315: MUSEUM AND GROSS ANATOMICAL TECHNIQUES 3Credits**

True education involves adequate acquisition of knowledge and skills to build characters in service to God and mankind [2 Timothy 2:15; Phil. 1:9-10]

Fixation (embalming of bodies; preparation and presentation of museum specimen; preparation of casts of the blood vessels; preparation of stained brain slices; preparation of skeleton.

**ANAT 316: ANTHROPOLOGY AND COMPARATIVE ANATOMY 3 Credits**

God created humans and other living things after their kinds [Colossians 1:16; John 1:3; 2 Timothy 2:15; I Tim. 1:4; Titus 3:9]; even when He allowed for variations in languages [Genesis 11]

Evolution and anthropology; races; physical characteristics; genetics of population; anthropometry; paleoanthropology; social and cultural anthropology. Medical anthropology and modern schools of clinical anthropology and forensics.

The Science of Comparative Anatomy and Vertebrate Relationships; Craniate Types, Phylogeny, and Morphogenesis; The Integument and Its Derivatives; The Skeleton; The Muscular System and Electric Organs; Coelom and Mesenteries; The Digestive System; The Respiratory System and Gas Bladder; The Circulatory System; The Urogenital System; The Nervous System; Sensory and Endocrine Organs

**ANAT 317: INTRODUCTION TO CLINICAL ANATOMY 3Credits**

The sick would need physicians [Matthew 9:12]; and Jesus demonstrated that healing was a great aspect of His ministry [Matthew 4:24]; God heals [Hosea 6:1]

Anatomy of all clinical examinations; Anatomy of all surgical incisions; Surface clinical anatomy, clinical organology.

**ANAT 318: NEUROANATOMY 4Credits**

The mind controls the body [1 Peter 1:13]; and the ungodly mind does evil [Romans 1:28-32]; the mind and the body proves that we are fearfully and wonderfully made [Psalm 139:14].

Development of Nervous system- neural tube and its subdivisions, neural crest and its derivatives and congenital anomalies, Peripheral Nervous system; Autonomic Nervous system, Peripheral reflexes, Nerve endings, Brain and meninges; ventricular system, cerebrospinal fluid (CSF); cisternal and lumbar punctures. Blood supply to the Brain and Spinal cord. Blood-brain barrier, Spinal cord, Fibre tracts of the spinal cord; medulla, pons, cerebellum; midbrain. Cranial nerves and their nuclei, Reticular formation, Diencephalon, cerebral cortex, Basal ganglia, Limbic system, Auditory and Visual pathways. Lesions of the nervous system, Clinical correlation.

**ANAT 319: INTRODUCTORY PHARMACOLOGY 3 Credits**

God created nurturer and healing in herbs, fruits and seeds [Genesis 1:29-31; Isaiah 38:21; Psalms 104:14-15]

General Introduction to Pharmacology; General Principles; Pharmacokinetics and Pharmacodynamics; Mechanisms of Various Drug Actions; Overview of Systemic Pharmacology; Applications of Pharmacological Principles to Toxicology; Drug Testing and Discovery.

**ANAT 324: RESEARCH METHODOLOGY AND ANIMAL HANDLING 3Credits**

God's mysterious power of creation are all found in the mysteries of forms, functions and relationships in nature [Job 12: 7 – 10].

Scientific methodology; Modern methods of research in anatomy; fundamentals of biomedical research; Research design; potential research field topics and tools. Introduction to animal handling, animal feeding, animal accommodation, animal health, animal handling, restraining and movement, animal behavior, studying and recording animal behaviour, mating and parental strategies, changes in behavior through domestication and animal learning, Animal Dissection and tissue handling.

**PHGY 304: ENDOCRINOLOGY 3 Credits**

This focus of the course is on the various endocrine organs in the body that work together to ensure that standards are maintained. As the Bible tells in that our bodies have many parts but they all work together. In regulation of blood glucose, hormones from different organs from different parts of the body work together to make sure that its concentration is kept within normal range.

**ANAT 401: TERATOLOGY 2 Credits**

God is not unaware of teratogenesis [Genesis 4:11].

Principles of teratogenesis; Human congenital abnormalities; experimental teratogenesis; Applications in drug testing and pregnancy.

**ANAT 402: HUMAN REPRODUCTIVE TECHNOLOGIES 3 Credits**

At best, we may only adjust the environment to suit development; only God created life and allows it to replicate [1 Cor. 8:6; Isaiah 42:5].

Modern assisted reproductive technologies in animals and human to include in vitro fertilisation, intracytoplasmic sperm injection, intrafallopian gamete transfers, egg-oviduct coculture; xenogenous egg incubation, artificial insemination, sperm and oocyte maturation in vitro.

**ANAT 403: SEMINAR IN MICROANATOMY 4 Credits**

It is biblical for a student of a subject to 'study to show yourself approved ...' [2 Timothy 2:15]

Students are to present seminars in the following areas

- (a) Advanced concepts in applied microanatomy
- (b) Cell Biology and Ultrastructure
- (c) Recombinant DNA/Genetic engineering to involve literature search and critical review of selected topics in the areas.

**ANAT 404: SEMINAR IN GROSS ANATOMY 4 Credits**

It is biblical for a student of a subject to 'study to show yourself approved ...' [2 Timothy 2:15]

Students are to present seminars in the following areas

- (a) Advanced concepts in applied gross anatomy

- (b) Mechanisms of movement
- (c) Selected topics in Neuroscience.

**ANAT 406: RESEARCH SEMINAR 3 Credits**

It is Godly and Biblical to obtain and be rich in wisdom and understanding [Proverbs 7:7]

Students are to present seminars in line with the title of the research project as follows:

- Research proposal
- Progress seminar
- Post field Seminar

**ANAT 407: MOLECULAR BIOLOGY AND GENETIC ENGINEERING 3Credits**

Seeking good knowledge is vital to understanding the inherent mysteries in our being, forms and functions as embedded in the human fundamental macromolecules such as the DNA [Proverbs 18:15]

DNA structure; reverse transcriptase enzyme and genes. DNA, DNA polymorphism, DNA sequencing, Southern blot, Northern and Western blots; polymerase chain reaction; gene cloning; cloning-to-clinic; Recombinant DNA products.

**ANAT 408: INTRODUCTION TO HISTOPATHOLOGY 3 Credits**

This course provides an introduction to histopathology and outlines how the appearance of different tissues changes due to damage, inflammation, infection or degeneration and how microscopy can aid in the diagnosis of disease. It also introduces the basic principles that apply to the preparation of microscope sections. It also shows how to identify a number of human tissues and interpret the changes that occur in disease.

**ANAT 409: DEVELOPMENTAL MECHANICS 3 Credits**

Development involves a process of knitting, as designed by God the creator [Psalm 139:13-16].

Experimental Embryology; Embryo manipulations and cloning; Chimaerism; Oviductology and early pregnancy science; Pattern formation and positional information; Developmental cues; Organisation of embryo and primitive streak; French Flag problem; Catastrophic theory ; Growth and differentiation; Embryonal growth factors and oncogenes; Morphogenesis and histogenesis.

**ANAT 411: APPLIED ANATOMICAL SCIENCES AND SKILLS 3 Credits**

It is expected that true education as desired by God should be of the right quality and approved standards; especially through the acquisition of the right skills and knowledge [2 Timothy 2:15].

It is expected that a number of Graduates of Anatomy Programme would pick up job opportunities in various general walks of life; this course content would address the specific system-feasible applications of Anatomical Knowledge and Skills to specific areas of specialisation and walks of life such as the Police, Army, Life Coaching, Paramedical Services, Research and Consultancy Services etc. Topics to be considered include: Application of Anatomical Principles to Toxicology and Drug Testing; Application of Anatomical Principles to Forensic Sciences; Postmortem: Principles and Practice; Application of Anatomical Principles to Prosthetics; Anatomical Modeling and Ergonomics [System designs, Fashion etc]; Entrepreneurial Anatomical Skills [Various Fields of Relevance]; Applied Neuroscience: Neurobehaviour Animal Models Studies; Principles of Psychometrics and Aptitude Testing.

**ANA 412: FUNDAMENTALS OF ANATOMICAL EDUCATION 3 Credits**

Quality education as designed by God must reveal the truth about God and His purpose for individual's existence; as such Anatomical Education must reveal the truth God in Nature [Hebrews 5:14; Matthew 5:29, Luke 11:34-36; Proverbs 2:3-6; Proverbs 1:7].

A major reason for teaching Anatomy as a Basic Medical Science course is to produce quality professional teachers on the subject Anatomy; it is important to introduce the students to the peculiarities of this course in terms of the philosophy, principles, methods of studies in line with general principles of education so as to produce effective teachers in principle and practice. Topics to be considered include: History of Anatomical Education: Global and National; Anatomical Education: Philosophy, Fundamentals & Principles; Pedagogical Methods in Anatomy & Health Sciences; Methods of Teaching Anatomy: Gross; Embryology; Histology Others; Professional Roles of Anatomy Educators; Applications of Anatomical Knowledge; Instructional Design and Development.

**ANAT 413: INTRODUCTION TO MORTUARY SCIENCE AND REMAINS PRESERVATION 3 Credits**

Remains reservation is an essential practice to ensure cleanliness and serenity of the environment; it also helps to preserve experiments for education and reference [Genesis 50:2; John 19:40; John 19:40].

The preservation of body tissues as a whole or in part is a major Anatomical practice; hence the Anatomist should be adequately equipped in knowledge and skills in this field. Primary topics to be considered include: Principles of Tissue and Remains Preservation; The Tissue Act and Relevant Laws; Embalmmnt: Principles and Practice; Remains Preservation: Principles, Methods and Practices.

**ANAT 414: ENTREPRENEURIAL ANATOMY 3 Credits**

The scripture advocates for the use of our God given abilities, potentials, talents as well as the good knowledge to solve life problems, serve God and bless humanity [II Thessalonians 3:10; Proverbs 22:6; Galatians 1:15; Ephesians 2:10; II Timothy 3:16-17].

Anatomy has several fields that from which ideas can be developed for entrepreneurial opportunities; this is also being encouraged by the Government and the regulating agencies to ensure job creation and adequate potential actualization. Main topics to be considered include: Entrepreneurial Anatomy: Concept and Development of an Entrepreneurial Philosophy; Development of Business Idea: Services and Products Businesses; Entrepreneurial Opportunities in Histology and Cytology; Entrepreneurial Opportunities in Embryology and IVF; Entrepreneurial Opportunities in Gross Anatomy and Morphology; Entrepreneurial Opportunities in Histochemistry; Entrepreneurial Opportunities in Anthropology and Forensic Sciences; Entrepreneurial Opportunities in Applied Anatomical Fields including toxicology etc

**ANAT 415: FORENSIC ANATOMY AND MORPHOLOGICAL ANALYSIS 3 Credits**

God encourages us to find and know the truth as it may be revealed to us to as to benefit from good knowledge and the right judgments [Mathew 7:7; Proverbs 14:18; proverbs 2:6; Ephesians 1:17].

A major application of anatomical knowledge is the area of Forensics and similar methods of whole body or tissue morphological analyses. To this end; Anatomists are trained and equipped particularly based on the following topics: Human Identification: Basic Principles and Practice;

Methods of Remains Identification and Analysis; Dermatoglyphics: Basic Principles and Applications; Applications of Anatomical Knowledge and Skills to Forensics; Relevance of Anatomy to various aspects of Forensics in various walks of life and professions including National security.

**ANAT 416: LABORATORY TECHNIQUES FOR LIGHT MICROSCOPE AND INTRODUCTION TO ELECTRON MICROSCOPE** **3 Credits**

Structure of a light microscope; Health & Safety; Fluorescence microscopy; Immunofluorescent staining; Non immunofluorescent staining; Confocal microscopy; Live cell imaging; Advanced confocal techniques; Workshop, lectures will concludes some of the latest advances in light microscopy.

Practical would involve Viewing specimens on different types of microscopes; Fluorescent labelling of cell cultures; Viewing specimens on fluorescent microscopes; Use of time lapse and confocal microscopes; Image processing; Micrograph capturing and interpretation.

Introduction to Electron Microscope will involve: introductory lecture, TEM, SEM and Laboratory techniques for EM

**ANAT 417: BIOSTATISTICS** **3 Credits**

It is biblical to 'count cost' through quantitative research, calculations and estimations [Luke 14:28].

Sources of population data; Sources of health and vital statistics; Collection and organization of data; Scales of Measurement; Presentation of data; Measures of central tendency; Measures of variability; Probability and inductive statistics; Normal Distribution; Test Statistics; Parametric tests; Non-parametric tests; Correlation and regression; Application of computers in medicine/medical informatics.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE** **3 Credits**

Biblical Principles for Anatomy

This course is expected to integrate Faith and Learning using the Bible as the template of Faith and Anatomy as the Context of Learning. As potential graduates and professionals; students should appreciate God through the knowledge and have their minds and spirit edified and equipped with desire and potentials for service to God and mankind- this, is true education.

**Professional and Personal Life and Conducts:** The practice of anatomy: appreciating God's wonderful work on mankind [Psalm 119]; Conducting Research Purposefully [Colossians 3:17; 1 Corinthians 10:31]; Teaching with Godly design education in mind [James 1:5]; Remains preservation from biblical perspectives [Genesis 50:2-3; Matthew 27:59]; Respect for human life and the dignity of life [1 Corinthians 6:19-20]

**Quality Knowledge of God and Humans as His Creation:** Topics to consider include: Nature of Life; Life begets Life of Kinds and Qualities [Colossians 1:16]; The Organism Structure and Functional Mysteries as Reflections of Creation Mysteries [Psalm 19:1]; Structures Correlate with Purpose [1 Corinthians 12:12; Romans 12:4; Ephesians 4:16]; Reviewing Evolution: Creation versus Evolution [Genesis 1:1; Genesis 1:31; John 1:3; Colossians 2:8; 1 Corinthians 1:18]; Spiritual Implications and applications of the Body



Working Systems; Cell and Body as Illustrations of the Micro and Macro- Organisation  
[Romans 12:4; Ephesians 4:16]; The Body in States of Health, Disease and Death-  
Appreciating Biblical Principles [1 Corinthians 12:26; Romans 14:8; Romans 12:1]

**ANAT 490: RESEARCH PROJECT**

**6 Credits**

Research is a means of questioning nature or creations for answers to puzzles and problems; huge solutions and answers could come through inspirations from God [**James 1:5**]. True education requires that we seek knowledge through research [Proverbs Proverbs 2:3-6]

Each student has an approved research topic culminating in the submission of research project under the guidance of a supervisor. The project will be defended by each student in the presence of a staff committee to earn the final grade.

## DEPARTMENT OF BIOCHEMISTRY



***God'swill N. ANYASOR, Ph.D.***  
***Head of Department***

### **List of Faculty and Staff**

- |  |   |
|--|---|
| 1) Funmilayo D. ONAJOB, Ph.D.          | - Professor of Membrane Biochemistry and Phytomedicine          |
| 2) Olugbenga O. ADEBAWO, Ph.D.         | - Professor of Nutritional Biochemistry and Biotechnology       |
| 3) Odutola OSILESI, Ph.D.              | - Professor of Nutritional Biochemistry                         |
| 4) God'swill N. ANYASOR, Ph.D.         | - Associate Professor, Drug Discovery and Membrane Biochemistry |
| 5) Olutayo S. Shokunbi, Ph.D.          | - Senior Lecturer, Nutritional Biochemistry and Toxicology      |
| 6) Ijeoma ESIABA, Ph.D.                | - Lecturer I, Clinical Biochemistry and Immunology              |
| 7) Olaoluwa T. TALABI, Ph.D.           | - Lecturer I, Nutritional Biochemistry                          |
| 8) Gogonte H. AMAH, M.Sc.              | - Lecturer II, Nutritional and Industrial Biochemistry          |
| 9) *Oluwanbo OLARENWAJU, M.Sc.         | - Assistant Lecturer, Nutritional Biochemistry                  |
| 10) Babafemi T. OGUNBIYI, M.Sc.        | - Assistant Lecturer, Phytomedicine and Toxicology              |
| 11) *Temitope F. COKER-OSHIWUGA, M.Sc. | - Assistant Lecturer, Nutritional Biochemistry                  |
| 12) Oluwaseyi A. ADETUNJI, M.Sc.       | - Assistant Lecturer, Molecular Biology                         |
| 13) Modupe O. ADETAYO, M.Sc.           | - Assistant Lecturer, Nutritional Biochemistry                  |
| 14) Olaide OLAJIDE, M.S                | - Assistant Lecturer, Phytomedicine and Drug Discovery          |
| 15) Omowumi AKINNAWO, M.Sc             | - Assistant Lecturer, Molecular Biology                         |
| 16) Adebara J. AYINDE, B.Sc.           | - Principal Technologist  |
| 17) Olusola O. GISANRIN, HND           | - Principal Technologist  |

- 18) Adekunle A. ORODELE, HND - Laboratory Technologist  
19) Glory C. IHEANACHO, HND - Laboratory Technologist

\*On leave of Absence

## **PHILOSOPHY**

In line with global technological advancement and the need for sustainable national development, the biochemistry program at Babcock University seeks to train students with attraction towards self-reliance while inculcating in them employable high skills required in pure and applied disciplines of human and veterinary medicine, pharmaceuticals, food and nutrition, relevant industrial productions and environmental safety and management. With God, as the centre of this noble conception, there is no doubt that resourceful and God fearing graduates, who will be the source of happiness to humanity, shall be our products.

## **VISION STATEMENT**

First class faith based department that ensures the flowering of human capacities in Nigeria and the world at large.

## **MISSION STATEMENT**

The mission of the Department of Biochemistry is to provide the highest quality of scholarship to students through the integration of theoretical and qualitative scientific investigation towards the exploration and understanding of the chemical basis of life processes.

## **OBJECTIVES**

The Department through the integration of theoretical, experimental, and practical science is committed to the following objectives;

- (i) To develop in students, skills and attitudes that are relevant to the study and practice of science such as accuracy and precision, objectivity, integrity, inquiry, initiative and insight;
- (ii) To promote the awareness that the study and practice of science are cooperative and cumulative activities which are subject to social, economic, ethical and cultural influences and limitations;
- (iii) To provide students with a broad and balanced foundation of biochemical knowledge and practical skills that are of value in biochemical and non-biochemical employment;
- (iv) To upgrade our laboratories to acquire first class research facilities for carrying out ground breaking researches in Biotechnology, Molecular Biology, Nutrition and Bioactive Agents.
- (v) To train our students to be self-reliant and future employers of labour in service delivery and professional development.
- (vi) To provide students with knowledge and skills base from which they can proceed to further studies in specialized areas of biochemistry or multi-disciplinary areas involving biochemistry;
- (vii) To generate in students an appreciation of the importance of biochemistry in industrial, economic, environmental, technological and social development;

- (viii) To promote the awareness that the application of biochemical knowledge may be both beneficial and detrimental to the individual, the society and the environment and therefore, encourage efficient and safe practice of biochemistry;
- (ix) To direct the minds of students to the source of all true mission and knowledge - Jesus Christ - in consonance with the role of SDA higher education in both our union and division.

### **ADMISSION REQUIREMENT**

Prospective candidates for the program must have five Ordinary Level Credits or equivalent in English Language, Mathematics, Biology, Chemistry, and Physics in not more than two sittings. In addition candidates must sit and pass the Babcock University screening test (written and oral).

### **GRADUATION REQUIREMENT**

Minimum period for graduation in this program is eight semesters. All other conditions are in line with BU policy. The minimum credit requirement for B. Sc. Biochemistry is 181 credits.

#### **SUMMARY TABLE OF MINIMUM CREDITS REQUIREMENT FOR GRADUATION**

<b>LEVEL</b>	<b>GEDS COURSES</b>	<b>DEPT. COURSES</b>	<b>NON-DEPT. COURSES</b>	<b>TOTAL</b>
100	19	NIL	24	43
200	13	8	28	49
300	9	36	NIL	45
400	9	35	NIL	44
<b>TOTAL</b>	<b>50</b>	<b>79</b>	<b>52</b>	<b>181</b>

**BACHELOR OF SCIENCE (B.Sc. Hons.) BIOCHEMISTRY**  
**100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library Skill and Study	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 112	Health Principles	-	2
GEDS 134	Nigerian People in Global Culture	-	2
	<b>CORE COURSES</b>		
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
	<b>TOTAL (43 Credits)</b>	<b>20</b>	<b>23</b>

**BACHELOR OF SCIENCE (B.Sc. Hons.) BIOCHEMISTRY**  
**200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
BCHM 201	Foundations of Biochemistry I	3	-
BCHM 202	Foundations of Biochemistry II	-	3
BCHM 209	General Biochemistry Practical I	1	-
BCHM 210	General Biochemistry Practical II	-	1
BIOL 201	Genetics I	2	-
CHEM 201	Inorganic Chemistry	3	-
CHEM 233	Physical Chemistry I	3	-
CHEM 213	Organic Chemistry I	3	-
CHEM 214	Organic Chemistry II	-	3
CHEM 244	Analytical Chemistry	-	3
CHEM 254	Physical Chemistry II	-	3
MBIO 201	General Microbiology I	3	-
STAT 204	Biostatistics	-	2
PHGY 221	General Principles of Physiology I	3	-
	<b>TOTAL (49 Credits)</b>	<b>26</b>	<b>23</b>

**BACHELOR OF SCIENCE (B.Sc. Hons.) BIOCHEMISTRY**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 260	Environment and Sustainable Development	2	-
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
BCHM 312	Nutritional and Food Biochemistry	-	3
BCHM 321	Instrumental Biochemistry	3	-
BCHM 323	Carbohydrate Metabolism	3	-
BCHM 325	Metabolism of Amino Acids and Protein	3	-
BCHM 327	Nucleic Acid Metabolism	3	-
BCHM 328	Metabolic Regulations	-	3
BCHM 329	Immunochemistry and Immunology	3	-
BCHM 331	Lipid Metabolism	3	-
BCHM 332	Biochemistry of Membranes and Bioenergetics	-	3
BCHM 336	Tissue Biochemistry	-	3
BCHM 360	Student Industrial Work Experience Scheme (SIWES)	-	6
	<b>TOTAL (45 Credits)</b>	<b>25</b>	<b>20</b>

**BACHELOR OF SCIENCE (B.Sc. Hons.) BIOCHEMISTRY**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 280	Leadership Skills	2	-
GEDS 400	Introduction to Entrepreneurial Skills	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
GEDS 440	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
BCHM 418	Fundamentals of Molecular Biology and Biotechnology	-	3
BCHM 420	Basics of Bioinformatics	3	-
BCHM 425	Drug Biochemistry	3	-
BCHM 426	Basics of Plant Biochemistry	-	3
BCHM 427	Industrial Biochemistry and Entrepreneurship	3	-
BCHM 429	Biochemical Methods and Reasoning	3	-
BCHM 431	Hormonal Biochemistry	3	-
BCHM 435	Research Seminar	3	-
BCHM 443	Enzymology	3	-
BCHM 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
BCHM 437	Virus Biochemistry	2	-
BCHM 439	Inorganic Biochemistry	2	-
	<b>TOTAL (44 Credits)</b>	<b>25</b>	<b>19</b>

**\* Students are expected to choose one elective course in the first semester.**



## BACHELOR OF SCIENCE (B.Sc. Hons.) BIOCHEMISTRY COURSE DESCRIPTIONS

## BIOL 101: GENERAL BIOLOGY I

**L:2, P:1, T:1**

### 3 Credits

Activities of living things. Basic cell types: Prokaryotic and Eukaryotic cells. Cell structure and organization. Function of cellular organelles. Mitosis. Meiosis and heredity. Characteristics and classification of living things. Reproduction. Interrelationship among organisms. Relationship between structure and function.

## BIOL 102: GENERAL BIOLOGY II

**L:2, P:1, T:1**

### 3 Credits

A brief account of the evolution of plants: Bacteria, Fungi, Algae, Lichens, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms. The major characteristics, structure and physiology of each group. Ecology and types of habitat. Diversity of life-Acellular animal (protozoa), Coelenterates, Acoelomate animals (Platyhelminthes). Nematode, Mollusca, Arthropods, Echinodermata, Chordates concept of ecology of the organisms.

**CHEM 101: GENERAL CHEMISTRY I**

**L:2, P:1, T:1**

### 3 Credits

Measurements, concentration units, thermochemistry, atomic structure, periodicity, nomenclature, chemical bonding, states of matter, colligative properties, redox, acids/bases, gases, concentration units, states of matter.

**Prerequisite:** Secondary school chemistry, algebra or concurrent enrollment in General Mathematics.

## CHEM 102: GENERAL CHEMISTRY II

**L:2, P:1, T:1**

### 3 Credits

Kinetics, equilibria, electrochemistry, descriptive inorganic chemistry of main groups I, II, III, IV, nuclear chemistry, introduction to biochemistry (carbohydrates, disaccharides, proteins, lipids, nucleic acids), introduction to organic chemistry: functional group chemistry, isomerism, nomenclature, hybridization, etc.

## PHYS 101: GENERAL PHYSICS I

**L:2, P:1, T:1**

### 3 Credits

Space and Time, Units and dimension, Kinematics; Fundamental Laws of Mechanics, statics and dynamics; work and energy; Conservation laws. Elasticity; Hooke's law, Young's shear and bulk moduli, Hydrostatics; Pressure; buoyance, Archimedes' Principles, surface tension; adhesion, cohesion, capillarity, drops and bubbles. Temperature; heat; gas laws; laws of thermodynamics; kinetic theory of gases. Sound, Applications.

**PHYS 102: GENERAL PHYSICS II**

**L:3, P:1, T:0**

### 3 Credits

Electrostatics; conductors and currents; dielectrics; magnetic fields and induction; Maxwell's equations; electromagnetic oscillations and waves; applications.

**MATH 101: GENERAL MATHEMATICS 1**

**L: 3, P:0, T:0**

### 3 Credits

Elementary set theory, subsets, union, intersection, complements, Venn diagrams. Real numbers; integers, rational and irrational numbers, mathematical induction, real sequences and series, theory of quadratic equations, binomial theorem. Complex numbers; algebra of complex numbers; the Argand Diagram. De Moivre's theorem,  $n$ th roots of unity. Circular measure, trigonometric functions of angles of any magnitude, addition and factor formulae.

**MATH 102: GENERAL MATHEMATICS II L:3, P:0, T:0 3 Credits**

Function of a real variable, graphs, limits and idea of continuity. The derivative, as limit of rate of change. Techniques of differentiation. Extreme curve sketching; integration as an inverse of differentiation. Methods of integration, Definite integrals. Application to areas, volumes.

**BCHM 201: FOUNDATIONS OF BIOCHEMISTRY I L:2, P:1, T:0 3 Credits**

This course will highlight some experimental discoveries and the history of biochemistry with the view to reflect excellence in research. Brief review of the contributions of the following biochemists to the subject: Emil Fisher, Warburg, Michaelis-Menten, Krebs, C. Cori and G Cori, Hills Ochoa, Calvin and Benson, Watson and Crick, Jacob Monod, Nuremberg, Sanger, Bornberg and others. Structures and functions of major cell components; prokaryotic versus eukaryotic organisms. Buffers, acidity and alkalinity; pH and pKa values and their effects on cellular activities which will reflect the intercessory and redemptive roles of Christ. Chemistry and structures of cellular macromolecules: carbohydrates, proteins, lipids, nucleic acids and their components; primary, secondary, tertiary and quaternary structures of protein which will portray cellular organization to reflect the principle of team spirit.

**Pre-requisites: BIOL 101, CHEM 101, BIOL 102, CHEM 102**

**BCHM 202: FOUNDATIONS OF BIOCHEMISTRY II L:2, P:1, T:0 3 Credits**

Introduction to enzymes, vitamins and Coenzymes, enzyme classification, specificity, factor affecting enzyme functions to reflect team spirit and autonomy with responsibility. Introduction to metabolism covering basics of glycolysis, TCA cycle, fatty acid oxidation, eicosanoids, deamination, transamination and urea cycle to reflect excellence in molecular architecture, some in-born errors of metabolism to reflect the consequences of sin at the molecular level.

**Pre-requisite: BCHM 201**

**BCHM 209: GENERAL BIOCHEMISTRY PRACTICAL I L:0, P:1, T:0 1 Credit**

Laboratory experiments designed to reflect the topics covered in BCHM 201. Introduction to laboratory methods and procedures employed in studying biochemical processes.

**Pre-requisites: BIOL 101, CHEM 101, BIOL 102, CHEM 102**

**BCHM 210: GENERAL BIOCHEMISTRY PRACTICAL II L:0, P:1, T:0 1 Credit**

Laboratory experiments designed to reflect the topics covered in BCHM 202. Introduction to laboratory methods and procedures employed in studying biochemical processes.

**Pre-requisite: BCHM 201**

**BIOL 201: GENETICS I L:2, P:0, T:0 2 Credits**

Heritable and non-heritable characters. Mendelism. Probability and test of goodness of fit Quantitative inheritance. Source and applications of variation in genome structure. Extranuclear polygenic inheritance. Introduction of population genetics: Hardy-Weinberg theory, gene frequencies etc.

**Pre-requisite: BIO 101**

**MBIO 201: GENERAL MICROBIOLOGY I                      L:2 P:1 T:0                      (3 Credits)**

Historical aspects including origins and scope of Microbiology. Introduction to various forms and characteristics of microorganisms including bacteria, viruses, fungi, protozoa and algae. A brief account of their growth, reproduction, and distribution in nature, their relationships to each other and other living things and their beneficial and harmful effects on man. Control of microbial pollution involving both physical and chemical agents.

**CHEM 201: INORGANIC CHEMISTRY I                      L:2, P:1, T:0                      (3 Credits)**

The course deals with theoretical concepts of how atoms react with each other, new concepts about what is an acid or base and physical and chemical properties of more elements in the periodic table. Review Nature of Atom, Neil's Bohr's Postulation of electron, Nature of Electron-particles or waves; Structure of Simple covalent molecules, Sidgwick-Powell Theory of Molecules; Molecular Orbital Theory; Physical Properties of Elements; Complex Ion Formation; Application of Redox Potential; Concepts of Soft and Hard Acids and Bases; Comparative Chemistry of Groups V, VI & VII Elements; Application of some important Inorganic Chemicals in Chemistry, Agriculture, Medicine and Industry. Prerequisite: any of CHEM 101, 102, 103,104, 105, or 106

We learn in this course that God understands the fundamentals of everything because He created them and they all work in unison for our own use. This course shows us how God operates at the microscopic and macroscopic level and confirms that He pay attention to everything about our life.

**CHEM 213: ORGANIC CHEMISTRY I                      L:2, P:1, T:0                      (3 Credits)**

Kinetics and Energetics of Reactions; Multiple Bonds; Aromatic Compounds; Chemistry of C-Halogens Bond; Chemistry of Hydroxyl group; Ethers, Thiols and Thioethers.

**CHEM 214: ORGANIC CHEMISTRY II                      L:2, P:1, T:0                      (3 Credits)**

Amines and Derivatives; Chemistry of the Carbonyl group; Chemistry of Carboxylic Acids and Derivatives; Sulphoric Acids; Some Important types of Natural Products – Lipids, Carbohydrates, Chemistry of Amino Acids and Proteins.

**CHEM 233: PHYSICAL CHEMISTRY I                      L:2, P:1, T:0                      (3 Credits)**

This is the first course in chemistry that explains forms of matter and studies the physical properties and other phenomenon of matter like heat and chemical equilibrium. States of matter, Kinetic Theory of Gases, Boyle's law; Charles law, Graham' law of diffusion, molecular velocity and their distribution, chemical thermodynamics, Heat capacity and Joule's experiment, laws of thermodynamics, Clausius-Clapeyron equation; thermo-chemistry; chemical Equilibrium. Le Charteliers-Braun. Prerequisite: General Mathematics I and II.

God creates man as body, soul and spirit. These are different entities all behaving differently but working in unison. So likewise God created different phenomenon which have different behavioral characteristics but works in unison.

**CHEM 244: ANALYTICAL CHEMISTRY                      L:2, P:1, T:0                      (3 Credits)**

The course explains the theory and types of errors that are involved in laboratory work and how to calculate the errors. It further deals with optical methods of monitoring chemical reactions. Theory of errors, statistical treatment of data, and theory of sampling, chemical methods of analysis including volumetric, gravimetric and physicochemical methods, Optical methods of analysis, Separation methods. God monitor every aspect of our life and it is monitoring is error free. God is able to do this because the Bible tells us that God is a spirit. Humans cannot do anything with no margin of error but God made everything good and perfect. For example creating man does not have error. All what God made is perfect and error free. It is only when we do what we are supposed not to do (sin) that we introduce error into our life and we fall sick i.e. we introduce error into our life

**CHEM 254: PHYSICAL CHEMISTRY II                      L:2, P:1, T:0                      (3 Credits)**

This is an advanced course that describes some physical phenomenon in chemistry and what happens to matter when subjected to heat and other forms of energy. Chemical kinetics, catalysis; electrochemistry, Hess Law, thermodynamic treatment of equilibrium (entropy, Gibb's free energy), third Law of thermodynamic, colloids, Debye-Huckel theory, electrochemical cells, Nernst equation Prerequisite: Chem. 233

The mightiness of God is unbelievable and we should revere him for all the wondrous things He has done. He made the earth and the Heavens and all that is therein. His awesomeness will always be revealed to us from time to time. The world is held together by different principles that needs to be learned and master.

**PHGY 221: GENERAL PRINCIPLES OF PHYSIOLOGY I    L:2, P:1, T:0    (3 Credits)**

Understanding of normal functioning of the human system. Maintain equilibrium between internal and external environments, review of cell and its properties including cell division, functioning of the digestive system, mechanism of defecation, blood and the cardiovascular system, body fluid mechanism, the respiratory and gas transport system breathing mechanism and control of respiration. Psalm 139:14 confirms the creative power of God on mankind of which the Psalmist admitted that mankind is wonderfully made.

**STAT 204: BIOSTATISTICS                                      L:2, P:0 T:0                                      (2 Credits)**

Aims, characteristics and application of biostatistics. Vital statistics. Measure of central tendencies and variation. Collection and presentation of data. Probability sampling. Tests of statistical significance. Experimental designs and clinical trials. Other application of biostatistics to clinical and preventive medicine.

**BCHM 312: NUTRITIONAL AND FOOD BIOCHEMISTRY    L: 2 P: 1 T: 0    (3 Credits)**

Food nutrients; energy value of foods and energy expenditure by mammals. Nutritive value of foods – carbohydrates, fats, proteins, vitamins, mineral elements and water. Nutritional disorders, prevention and therapy. Nutritional status. Nutrients requirement in relation to physical activity and aging, diet and disease, obesity and under-nutrition. Fermentation of food, preservation, processing and storage of traditional foods – roots and stem tubers, fruit drinks, seeds and grains, greens and vegetables. Food analysis. Food poisoning and intoxication prevention and cure. This course will reveal the importance of temperance and balance in our food choices.

**Pre-requisites: BCHM 201, BCHM 202**

**BCHM 321: INSTRUMENTAL BIOCHEMISTRY    L: 2 P:1 T:0                    (3 Credits)**

Practical laboratory exercises cutting across a wide spectrum of general biochemistry methods. Principles, mode of operation and uses of the following instruments in biochemical research: pH meter, centrifuge, weighing balance, Warburg manometer, colorimeters and spectrophotometers, radioisotope counters, electrophoretic apparatus, chromatographic apparatus (paper, TLC, HPLC, GC), rotary evaporator, vacuum/suction pumps, refluxing apparatus, photometers, fluorimeters, water bath, ELISA method, Kjeldahl apparatus etc. This will reflect the concept of integrity and accountability and also illustrate how the bible serves as the pathfinder of the truth.

**Pre-requisites: BCHM 201, BCHM 202**

**BCHM 323: CARBOHYDRATE METABOLISM                                    L: 2 P: 0 T: 1    (3 Credits)**

General review of carbohydrates chemistry and function. Reactions of glycolysis, the tricarboxylic acid cycle, the pentose phosphate pathway. The Cori cycle, the Calvin pathway, gluconeogenesis, disorders in carbohydrate metabolism. This course will enable students to appreciate the creative and redemptive powers of God at the molecular level in addition to the need to uphold integrity and team spirit.

**Pre-requisites: BCHM 201, BCHM 202**

**BCHM 325: METABOLISM OF AMINO ACIDS AND PROTEIN            L: 2 P: 0 T: 1**

**(3 Credits)**

General review of carbohydrates chemistry and function of amino acids and protein, Isolation, purification and characterization of proteins. Metabolism of amino acids and protein, digestion and absorption of protein, catabolism of amino acids: deamination, transamination, transport of  $\text{NH}_3$  by glutamine and alanine, urea cycle. Pathways of amino acid degradation, fate of ketogenic and glucogenic amino acids, pathways of biosynthesis of amino acids, biosynthesis of amino acid derived compounds: porphyrins, heme, glutathione, creatine, biological amines; nitric oxide biosynthesis from arginine; in-born errors of amino acid metabolism. This course will enable students to appreciate the creative and redemptive powers of God at the molecular level in addition to the need to uphold integrity and team spirit.

**Pre-requisites: BCHM 201, BCHM 202**

**BCHM 327: NUCLEIC ACID METABOLISM                                    L: 2 P: 0 T: 1    (3 Credits)**

Review of structure, properties and function of nucleic acids; genome organization. Catabolism and biosynthesis of purines and pyrimidines nucleotides; some abnormalities in nucleic acid metabolism – gout, xeroderma pigmentosum and skin cancer. DNA Replication in prokaryotes and eukaryotes. DNA Damage, Repair and Genetic Recombination. DNA transcription in prokaryotes and eukaryotes. This course will enable students to appreciate the creative and redemptive powers of God at the molecular level in addition to the need to uphold integrity and team spirit.

**Pre-requisites: BCHM 201, BCHM 202**

**BCHM 328: METABOLIC REGULATIONS                                    L: 2 P: 0 T: 1                    (3 Credits)**

This course will explain the relationship of Krebs cycle to protein, carbohydrate, lipid and nucleic acid metabolism. Integration of metabolic pathways. Turnover rates and metabolic pools to reflect integrity. Regulation of enzymes of metabolic pathways of feedback inhibition

versus enzyme synthesis to reflect servant -leadership. Catabolite repression, end product repression, the lactose operon and arabinose operon. Identification of different regulatory mechanisms in metabolic pathways. This will reflect the concepts of love, team spirit and integrity in life and the need to obey God's laws.

**Pre-requisites: BCHM 323, BCHM 331, BCHM 325 and BCHM 327**

**BCHM 329: IMMUNOCHEMISTRY AND IMMUNOLOGY L: 2 P: 0 T: 1 (3 Credits)**

Basic concepts of immunology, components of innate immunity, structure of antigens, antigenic determination and cellular response. Structure and activation of the T-cell antigen receptor. Humoral immunity, structure and classification of immunoglobulins and antibodies. Antigen and antibody interaction. Genetic basis of antibody diversity. The complement system in immune response. Hypersensitivity, immuno-pathology, autoimmunity, tumor and transplantation immunology. Immunochemical techniques; haemagglutination and complement fixation, precipitation reactions, immunoblotting, isolation of lymphocyte population, cytotoxic assay etc. This course will show the protective power of the God and also explain the concept of integrity and team spirit.

**Pre-requisites: BCHM 201, BCHM 202**

**BCHM 331: LIPID METABOLISM L: 2 P: 0 T: 1 (3 Credits)**

General review of carbohydrates chemistry and function of lipids, catabolism of lipids: digestion and absorption of lipid,  $\beta$ -oxidation of fatty acids, ketone body formation, hydrolysis of triacylglycerol, phospholipids and cholesterol esters, biosynthesis of fatty acids, triacylglycerol, phospholipids, cholesterol, bile acids, steroid hormones and eicosanoids. Regulation of lipid synthesis, lipoprotein classification, function and metabolism; hyperlipidemia, hyperlipoproteinemia. This course will enable students to appreciate the creative and redemptive powers of God at the molecular level in addition to the need to uphold integrity and team spirit.

**Pre-requisites: BCHM 201, BCHM 202**

**BCHM 332: BIOCHEMISTRY OF MEMBRANES AND BIOENERGETICS**

**L: 2 P: 0 T: 1 (3 Credits)**

Structure, composition and functions of biological membranes. Isolation, characterization and classification of membranes, spontaneously formed lipid structures, unit membrane hypothesis and fluid mosaic model of membranes, membrane dynamics and asymmetry; phase transition, lipid anchored membrane protein; membrane transport. Chemical thermodynamics; high-energy compounds; chemical potentials, electrochemical potentials oxidation and reduction; electron transport system and oxidative phosphorylation. Regulation of ATP production. Photosynthetic electron transport, photo phosphorylation and bioluminescence. This course will enable the student to appreciate the concept of building on a solid rock (Jesus Christ) and put on the whole armor of God. **Pre-requisites: BCHM 201, BCHM 202, CHEM 233, CHEM 254**

**BCHM 336: TISSUE BIOCHEMISTRY L: 2 P: 0 T: 1 (3 Credits)**

Biochemistry of vision, muscles, kidney, liver, blood and adipose tissue. General metabolism of the brain and neuronal biochemistry. Biochemistry of reproductive tissues. Functional aspect of biochemistry. This course will reveal the concept of "many parts, one body in Christ" and team spirit.

### **BCHM 360: STUDENT INDUSTRIAL WORK EXPERIENCE SCHEME (SIWES)**

**L: 0 P: 6 T: 0 (6 Credits)**

Students will be attached to some industrial organizations for a minimum of 6 months. At the end of the period of practical industrial exposure, a written report is submitted, together with the report of daily activity of the student as approved by the industry and other relevant documents to the department for assessment. This course will reflect autonomy with responsibility and accountability.

### **BCHM 418: FUNDAMENTALS OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY**

**L: 2 P: 0 T: 1 (3 Credits)**

Replication and transcription of DNA, translation of the genetic code into amino acids sequence, protein synthesis, regulation of gene expression, genomics, transcriptomics and proteomics. Genetic engineering, gene regulation, food fermentation, production/biosynthesis of enzyme and vitamins. *In vivo* labeling of DNA/RNA, Nick translation and DNA probes. Satellite DNA, unique and repetitive sequences, DNA renaturation and polynucleotide hybridization, Northern blot, Southern blot, DNA sequencing, Restriction mapping, Recombinant DNA Technology and its application. This course will reveal to student the miraculous power of God and also point to the sacrifice of Christ as our atonement for sin.

**Pre-requisites: BCHM 323, BCHM 325, BCHM 327**

### **BCHM 420: BASICS OF BIOINFORMATICS**

**L: 2 P: 0 T: 1 (3 Credits)**

Definition and aims of bioinformatics. Description of related fields to bioinformatics. Applications of bioinformatics. Human genome project and its relationship to bioinformatics to reflect intelligent design. Brief review of molecular biology basics; especially around the Central Dogma to reflect servant leadership. Replication, transcription and translation as related to data handling. Introduction to Databases; Biological Databases and their Pitfalls. GenBank, EMBL, DDBJ: Databases of mostknown nucleotides and Protein Sequences. Nation Center for Biotechnology Information (NCBI). Accession Numbers: labels to identify sequences; Ways to Access DNA and Protein Sequences. Sequence Alignment. This course will highlight to students the need for proper documentation, accountability and integrity in research and analysis.

**Pre-requisites: BCHM 323, BCHM 325, BCHM 327**

### **BCHM 425: DRUG BIOCHEMISTRY**

**L: 2 P: 0 T: 1 (3 Credits)**

Xenobiotics metabolism; biotransformation reactions (phase I and II); toxicity and toxicology terms and concepts; dose-response curves; classification of metabolites; microsomal and non-microsomal enzyme systems; monooxygenases and mixed function oxidases-cytochrome P<sub>450</sub> family; induction and inhibition of drug metabolism; factors influencing drug metabolism; mechanisms of drug toxicity; theories of the mechanism of drug action. Drug resistance and factors affecting drug efficacy. The physiological and biochemical action of some selected drugs to reflect excellence. Medicinal plants in the management and therapy of common ailments-malaria, sickle cell anemia, common cold, hepatitis. This course will reveal the consequences of sin in human body and the power of Christ over sin. It will also show the connection between food and medicine.

**Pre-requisites: BCHM 323, BCHM 331, BCHM 325**

**BCHM 426: BASICS OF PLANT BIOCHEMISTRY L: 2 P: 0 T: 1 (3 Credits)**

Organization of plant cells; photosynthesis; alkaloids and flavonoids; plant hormones; Biosynthesis of carotenoid pigments. Biochemistry of plant development. The plant cell wall structure, formation and growth. Lignin formation. Free amino acids, pyrimidines, purines and nucleosides in plants. Metabolism of auxins, gibberellins and cytokinins. Synthetic growth regulators and herbicides. Structure – function relationship of plant hormones. This course will highlight team spirit and integrity and also to reveal the connection between plant and healing.

**Pre-requisites: BCHM 323, BCHM 327**

**BCHM 427: INDUSTRIAL BIOCHEMISTRY AND ENTREPRENEURSHIP**

**L: 2 P: 1 T: 0 (3 Credits)**

A short review of microbial physiology. A review of general metabolic pathways, control and application in industrial fermentations - alcoholic, amino acids, antibiotics, and other secondary metabolites. Biochemistry of microbial growth, energetics and kinetics of microbial growth. Process evaluation and development. Over production of metabolites - amino acids, taste enhancers, vitamins, toxins etc. Methods for screening and selecting micro-organisms of industrial importance, induction of mutation in microorganisms and plants for the purpose of over production. Strain selection, development and enhancement. Gene dosage and its application in industrial process. Development of market-targeted industrial and pharmaceutical products. This course will enable student to appreciate the creative nature of God in man.

**Pre requisites: BCHM 323, BCHM 331, BCHM 325**

**BCHM 429: BIOCHEMICAL METHODS AND REASONING**

**L: 2 P: 0 T: 1 (3 Credit)**

Principles and applications of GC, IR, AAS, HPLC, NMR and ELISA. Evaluation and design of experimental biochemistry from available information and data. Analysis, interpretation and inference from biochemical research data and scientific literature. Preparation of manuscript for publications to reflect autonomy with responsibility. This course will show that all good reasoning is as directed by God. Students are to acquire wisdom and knowledge from God.

**Pre-requisites: BCHM 321, STAT 204**

**BCHM 431: HORMONAL BIOCHEMISTRY L: 2 P: 0 T: 1 (3 Credits)**

Evolution of hormones action, classes and structure of hormones, pathways for the synthesis of amino derived hormone. Amino acids derived and polypeptide and steroid hormones. Intracellular mediators of hormones. Control/regulation of hormonal secretion. Hormone receptors. Binding activity and response. Kinetics of binding. Mode of action of hormones and metabolism. cAMP as a second messenger, role of calcium and other ions. Hormone agonists, antagonists and partial agonists to reflect the redemptive role of Christ. This will reveal the concept of team spirit, integrity and autonomy with responsibility in life.

**Pre-requisites: BCHM 331, BCHM 325**

**BCHM 435: RESEARCH SEMINAR**

**L: 2 P: 0 T: 1 (3 Credits)**



Under the supervision of a Faculty, each student is assigned a topic for detailed study based on literature search. The emphasis should be on recent advances in the chosen field of biochemistry. The study shall be presented at a seminar. A write up on the topic shall also be submitted. This course will reveal the concept of accountability, courageousness, autonomy with responsibility, integrity and excellence in professional conducts.

**BCHM 437: VIRUS BIOCHEMISTRY                      L: 2 P: 0 T: 0                      (2 Credits)**

Survey of structural properties of different classes of viruses. Viral multiplication mechanisms. Control of viral replication. Interferons. This course will reveal the compassion of God to humanity against negative associations.

**Pre-requisite: BCHM 327**

**BCHM 439: INORGANIC BIOCHEMISTRY                      L: 2 P: 0 T: 0                      (2 Credits)**

Relationship between the physico-chemical properties and biological functions of inorganic ions; metalloproteins. Ligand complexes and their biochemical significance to reflect team spirit; Nitrogen fixation and cycle; Sulphur cycle to reflect team spirit. This course will reflect excellence and team spirit in life.

**Pre-requisites: BCHM 201, CHEM 201**

**BCHM 443: ENZYMOLOGY                                      L: 2 P: 0 T: 1                      (3 Credits)**

Classification and Properties of enzymes, kinetics of enzymes and inhibition. Mechanism of enzyme catalyzed reactions. Michaelis-Menten equation. Allosteric/regulatory enzymes. Estimation of kinetic parameters-enzymes activities,  $K_m$ ,  $V_{max}$ ,  $K_i$ , Zymogen activator, digestive enzymes: Enzyme production, immobilized enzymes and application, vitamins and coenzymes. Regulatory enzymes. Molecular models for allosterism. Multi enzyme complexes, enzymes assays. Criteria for determining purity of enzymes. Enzyme reconstitution. Regulation of enzyme activity and synthesis. Downstream processing in biotechnology, immobilized enzymes. This course will reflect the concept of team spirit and roles of the Holy Spirit in life.

**Pre-requisites: BCHM 201, BCHM 202**

**BCHM 490: INDEPENDENT RESEARCH PROJECTS                      L: 0 P: 6 T: 0 (6 Credits)**

Independent research into selected areas/topics of interest. Students will be required to carry out literature survey on the topics, perform experiments under the guidance of an academic staff and produce reports (preferably at the end of second semester). Students will be subjected to oral examination on the projects undertaken. This course will enable students acquire the concepts of excellence, integrity, accountability and autonomy with responsibility.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**L:2 P:0 T:0 (2 Credits)**

This course will highlight the biblical basis for a balanced nutritional requirements and the implications of a well-fed and fasting states on health and spirituality. Excellence, integrity and accountability in professional conducts and ethics during research, analysis, business and work environment. The importance of accurate scientific reporting and selfless services will be covered.

## DEPARTMENT OF NUTRITION AND DIETETICS



***Bolade K. ADEOYE, Ph.D***  
***Head of Department***

### **ACADEMIC STAFF**

MAKINDE, Yetunde. O. Ph.D.	-	Professor of Nutrition & Educational Sciences
ADEYEYE, Joshua. A. Ph.D.	-	Professor of Food Chemistry
ANI, Ime F. Ph.D	-	Senior Lecturer, Nutrition and Food Science
ADEOYE, Bolade. K. Ph.D	-	Senior Lecturer, Food Science & Technology
NGOZI, Elizabeth O. M.Sc.	-	Lecturer I, Nutrition and Dietetics
AKINLADE, Ademola R. M.Sc.	-	Lecturer II, Nutrition and Dietetics
AJUZIE, Nnenna C. M.Sc	-	Assist. Lecturer, Nutrition and Dietetics

### **TECHNICAL STAFF**

FALADE, Caroline K. HND	-	Asst. Chief Lab. Technologist (Catering and Hotel Mgt.)
ADETUNJI, Titus A. PGD	-	Prin. Lab. Technologist (Nutrition and Dietetics)

### **ADMINISTRATIVE STAFF**

KPAROU, Somiealo M.	-	Departmental Secretary
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## **PHILOSOPHY**

Nutrition is the scientific study of foods and nutrients that occur in foods. Dietetics on the other hand is the application of scientific principles of nutrition in the management of health and disease condition of the people. Thus, Nutrition and Dietetics study uses of nutrient by the human bodies and the effects of these nutrients on the health, growth and development of the individual. The student of Nutrition and Dietetics is therefore engaged in the broad study of bridging the gaps between food sciences, applied medical sciences and management studies, and to enhance the development of the physical, mental and spiritual growth. In this era of sustainable development, Nutrition and Dietetics is expected to assume a front line position in maintaining a healthy and viral nation. Thus there is a need for appropriate man power development and technological expertise.

## **VISION STATEMENT**

Nutrition and Dietetics Department is committed to building students for leadership through quality Christian education, transforming their lives so they can impact the society for positive change. Involve our students in critical thinking, problem solving skill, creativity and self-expression, challenging them to be original thinkers rather than mere reflectors of other peoples thought. Instilling Christ-like character in our graduate so they can be of great service to God and humanity.

## **MISSION STATEMENT**

In harmony with the philosophy of Babcock University, the mission statement of Nutrition and Dietetics programme is to become a department of excellence, nurturing our students to be competent, innovative, responsible, and providing a broad based functional and practical training that will foster dynamic professionalism in meeting the impact of foods on health.

## **OBJECTIVES OF THE PREGRAMME**

**The objectives of Nutrition and Dietetics programme are to:**

- Enable the students appreciate the importance of food production and food availability in maintaining the nutritional status of population and understand factors that influence production, availability and sustainability.
- Teach the students the inter-relationship between agriculture, food and nutrition as well as link between health and nutrition.
- Prepare the students with a thorough understanding of the nutrition concept in hospitals, nursing homes, food services establishments, industries, educational institutions and in dietary management of diseases.
- Instill in the students high standard of excellence for the performance of their professional responsibilities and to assume leadership role in academic research and Industry with minimal supervision.

- Assess the main nutrition problem in a community so as to appreciate the cause and severity of malnutrition and design intervention for their solutions.
- Create an awareness of a global view of problems of malnutrition in urban and rural communities with agencies involved and to train how to plan, implement, monitor and evaluate nutrition intervention programme.

### **ADMISSION REQUIREMENTS**

Five O' level Credit passes in the Senior Secondary School Certificate or its equivalent (NABTEB etc) in addition to meeting up with the requirements of University Matriculation Tertiary Examination (UMTE) and Babcock University Post JAMB screening. The five credit passes must include Chemistry, Biology, or (Agricultural Sciences or Food and Nutrition), English Language, Mathematics and Physics or (any other social science courses).

Candidate with ND/HND, NCE from recognized institutions in related courses i.e. Nutrition, Home Economics, Catering and Hotel Management, Food Science, Medical/Biological/Nursing sciences and similar professional qualifications may be admitted by direct entry into 200 level after Babcock University Post JAMB screening.

### **DURATION OF FIRST DEGREE PROGRAMME**

#### **B.Sc. Nutrition and Dietetics**

The degree covers a period of 4 academic years. Student may also take courses as specified or permitted in the curriculum from other faculties. Courses carry between 1-3 credits except for industrial training and project.

### **MINIMUM REQUIREMENT FOR GRADUATION**

For the 4-year degree program, the first year (100 level) shall be a qualifying year. In order to proceed to the second year (200 level), students are expected to maintain acceptable minimum academic performance [standards](#). A minimum of 178 credits is required for the 4 year programme (B.Sc.) for graduation in Nutrition and Dietetics.

<b>LEVEL</b>	<b>GEDS COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON-DEPARTMENTAL</b>	<b>TOTAL</b>
100	19	0	24	43
200	15	23	14	52
300	9	32	3	44
400	7	32	0	39
<b>Sub-Total</b>	<b>50</b>	<b>87</b>	<b>41</b>	<b>178</b>

**BACHELOR OF SCIENCE (B. Sc. Hons) NUTRITION AND DIETETICS**  
**100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 120	ICT Fundamentals and Office Productivity	2	-
GEDS 131	Communication in English 1	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigeria People in a Global Culture	-	2
	<b>CORE COURSES</b>		
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
BIOL 101	General Biology 1	3	-
BIOL 102	General Biology 11	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
<b>TOTAL (43 Credits)</b>		<b>22</b>	<b>21</b>

**BACHELOR OF SCIENCE (B. Sc. Hons) NUTRITION AND DIETETICS**  
**200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	2	-
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
NUDT 201	Introduction to Nutrition and Dietetics	2	-
NUDT 202	General and Applied Nutrition	-	2
NUDT 205	Food Biochemistry	2	-
NUDT 212	Fundamentals of Food Processing	-	3
NUDT 214	Food Microbiology	-	3
NUDT 223	Food Commodities	2	-
NUDT 224	Fundamentals of Nutrient Metabolism	-	3
NUDT 226	Evaluation and Analysis of Foods and Diets	-	3
NUDT 228	Food Production and Service		3
MBIO 201	General Microbiology I	3	-
STAT 204	Biostatistics	-	2
PHGY 221	General Principles of Physiology I	3	-
PHGY 222	General Principle of Physiology II	-	3
ANAT 227	Basic Anatomy	3	-
	<b>TOTAL (52 Credits)</b>	<b>26</b>	<b>26</b>

**BACHELOR OF SCIENCE (B. Sc. Hons) NUTRITION AND DIETETICS**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	-	2
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
GEDS 280	Leadership Skills	2	-
	<b>CORE COURSES</b>		
NUDT 300	Research Methods and Nutritional Evaluation of Foods	-	3
NUDT 301	Diet Therapy and Hospital Practice I	3	-
NUDT 304	Food Quality, Evaluation and Control	-	2
NUDT 309	Nutritional Assessment	3	-
NUDT 314	Personnel and Institutional Management	-	2
NUDT 318	Practice of Nutrition		2
NUDT 323	Chemistry of Foods	3	-
NUDT 325	Menu Planning and Recipe Development	3	-
NUDT 331	Introduction to Clinical Nutrition and Hospital Practice	3	-
NUDT 329	Food Toxicology	2	-
NUDT 360	Student Industrial Work Experience (SIWES)	-	6
BCHM 339	Biochemistry of Nutrient Metabolism	3	-
	<b>TOTAL (44 Credits)</b>	<b>25</b>	<b>19</b>

**BACHELOR OF SCIENCE (B. Sc. Hons) NUTRITION AND DIETETICS**  
**400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
GEDS 420	Biblical Principles in Personal and Professional Life		3
	<b>CORE COURSES</b>		
NUDT 402	Nutrition and Consumer Education	-	2
NUDT 405	Seminar in Nutrition	1	-
NUDT 409	Nutrition Planning and Policy	2	-
NUDT 417	Diet Therapy and Hospital Practice II	3	-
NUDT 418	International Nutrition	-	2
NUDT 422	Advances in Human Nutrition	-	2
NUDT 423	Community Nutrition	3	-
NUDT 427	Adventist Philosophy and Contemporary Issues of Vegetarian Diet	2	-
NUDT 428	Public Health Nutrition	-	3
NUDT 431	Nutrition Through All Ages	3	
NUDT 433	Clinical Nutrition and Hospital Practice	3	-
NUDT 490	Research Project	-	6
	<b>TOTAL (39 Credits)</b>	<b>21</b>	<b>18</b>



**BACHELOR OF SCIENCE (B. Sc. Hons) NUTRITION AND DIETETICS  
COURSE DESCRIPTIONS**

**BIOL 101:                      GENERAL BIOLOGY I                      3 Credits**

Scientific methods to biology concepts. Characteristics of living and non-living things. Cell, tissue, organ and organ system levels of organization. Basic cell types: Prokaryotic and Eukaryotic and Prokaryotic cells. Cell structure and organization. Function of cellular organelles. Mitosis, Meiosis and Heredity. Elements of Biological Chemistry aspect of organic, inorganic and physical chemistry relevant to Biology. Interrelationship among organisms.

**BIOL 102:                      GENERAL BIOLOGY II                      3 Credits**

A brief account of the evolution of plants: Bacteria, fungi, algae, lichens, bryophytes, pteridophytes etc. the major characteristics, structure and physiology of each group. Ecology and types of habitats. Diversity of life- acellular animals (protozoa), coelenterates, acoelomate animals (Platyhelminthes). Nematodes, Mollusca, Arthropods, Echinodermata etc. concept of ecology of the organisms

**CHEM 101:                      GENERAL CHEMISTRY I                      3 Credits**

Atoms, molecules and structure, states of matter, thermochemistry, chemical kinetics, acids bases and salts, equilibria, solutions, oxidation and reduction, electrochemistry.

**CHEM 102:                      GENERAL CHEMISTRY II                      3 Credits**

Chemical bonding. The periodic Table; Inorganic chemistry of main groups I, II, III, IV; basic principles of Organic Chemistry; Structural terminology; functional group chemistry.

**MATH 101:                      GENERAL MATHEMATICS I                      3 Credits**

(Algebra and Trigonometry) Elementary set theory, subsets, union, intersection, complements, Venn diagrams, real numbers, integers, rational and irrational numbers, mathematical induction, real sequences and series theory of quadratic equations, binomial theorem. De Moiré's theorem, nth roots of unity. Circular measure, trigonometric functions of angles of any magnitude, additional and factor formulae.

**MATH 102:                      GENERAL MATHEMATICS II                      3 Credits**

(Calculus) Function of real variable, graphs, limits and idea of continuity. The derivatives, as limit of rate of change. Techniques of differentiation. Extrem a curve sketching: Integration as an inverse of differentiation. Methods of integration. Define integrals; Application to areas, volume.

**PHYS 101:                      GENERAL PHYSICS I                      3 Credits**

(Mechanics, Thermal Physics and waves) Space and time, units and dimension, Kinematics; Fundamental laws of Mechanics, statics and dynamics; work and energy; conservation laws. Elasticity; Hooke's law, Young's shear and bulk moduli, Hydrostatics; Pressure bouyance, archimedes' capillary, drops and bubbles. Temperature; heat; gas laws; laws of thermodynamics; kinetic theory of gases. Sound, applications.

**PHYS 102:                      GENERAL PHYSICS II                      3 Credits**

Electricity, Magnetism and Modern Physics – Electrostatics; conductors and currents; dielectrics; magnetic fields and induction; Maxwell's equations; electromagnetic oscillations and waves; applications.

**NUDT 201:    INTRODUCTION TO NUTRITION AND DIETETICS                      2 Credits**

This course introduces the student to a career in Nutrition and Dietetics, professional reasoning, ethics and competency standards. It includes basic terminology, the role of a Registered Dietitian, and basic concepts of clinical nutrition, community nutrition and food service management. This course provides opportunity for students to learn the impact of historical developments, philosophy, goals and objectives of Science of Nutrition and Dietetics. Comprehensive evaluation studies of basic human needs and their roles and responsibility of Nutrition and Dietetics in meeting these needs. Relationship between patients and dietetics professionals. Contemporary issues in Dietetics: functional foods, culture and dietetics. **Ellen G. White** in her book titled “**Counsels on Diet and Foods**” admitted that “A large proportion of all human infirmity that afflict human family as a results of wrong habits, due to their willing ignorance or their disregard to the light that God has given in relation to the laws of their being. Genesis 1:29-30.

**NUDT 202:                      GENERAL AND APPLIED NUTRITION                      2 Credits**

This course is designed to focus on the benefit of basic nutrition with special emphasis on nutrients; digestion, absorption, metabolism and their problems. Nutritive value of tropical foods in traditional Nigerian diet. Effect of seasons on cultural habits, food choice and consumption pattern. Effects of nutritional deficiency and toxicity levels on people. Interaction of diets and environmental factors in the prevention of diseases and personal hygiene. Interrelationship of nutrients. Food enrichment and supplementation in general. Hormones, nutrition and immune responses. Parasitism as mode of nutrition; foetus as a parasite and effect of diet on biochemical processes. Our commitment (Adventist Heritage) according to **Ellen G. White** in chapter 8 of her book titled “**Counsels on Diet and Foods**” reminded us that “Adam and Eve were sinless at the onset. But after their fall, the earth was cursed because of their sin, while intemperance in every form has existed and appetite now controls the reason. Diseases have been steadily increasing and weather become uncontrollable. Genesis 3:6

**NUDT 205:    FOOD BIOCHEMISTRY                      2 Credits**

Chemical/biochemical reactions of carbohydrates, lipids, proteins, and other constituents in fresh and processed foods are discussed with respect to food quality. Reaction conditions and processes that affect color, flavor, texture, nutrition, and safety of food are emphasized

This course will provide adequate information to our students on the various Chemical/biochemical reactions of carbohydrates, lipids, proteins, and other constituents in fresh and processed foods with respect to food quality. Protein systems in food, peptic substances, plant gums and their uses in foods. Non-enzymatic browning, types of lipid oxidation and antioxidants in food system, carotenoid in food systems, essential oils and chemistry of food systems, phenolic compounds, respiration, chlorophyll and photosynthesis, biochemical activity of micro-organisms in foods. Reaction conditions and processes that affect color, flavor, texture, nutrition, and safety of food. According to **Ellen G. White** in her book titled “**Counsels on Diet and Foods**”. The pen of inspiration stipulated the biblical view on the negative impact of deviating from the original food where sin came to reduce the potential healing of the nations through simple fruits and vegetables as given by God.

#### **NUDT 212: FUNDAMENTALS OF FOOD PROCESSING**

**3 Credits**

Basic methods of food processing and preservation (chilling, freezing, cooling, canning, dehydration, concentration, fermentation and irradiation). Processing of different food products. Food additives. Storage life nomenclature including the determination of shelf lives of foods. Effect of processing and storage condition on availability of nutrients with reference to food. Therefore, if any man be in Christ he is a new creature: old things are passed away; behold, all things are become new. 2 Cor. 5:17.

#### **NUDT 214: FOOD MICROBIOLOGY**

**3 Credits**

The micro-flora of foods and its relation to food preservation and spoilage. Microbiological examination of different classes of foods. Probiotics and prebiotics. Food infection and poisoning; study of the characteristics of pathogenic organisms. Fermented foods, malting and brewing of alcoholic beverages. Water microbiology, water disinfection and requirements for water in the food industry. Public health and sanitation. Food laws and regulations. James 1:17 explained that every perfect gift comes from the Lord with whom there is no variability or shadow of turning.

#### **NUDT 223: FOOD COMMODITIES**

**2 Credits**

Classes of foods, market survey, food selection and purchasing. Uses of foods and food tables, cereals, starches and starchy foods sugars, pulses, nut and seeds. Vegetables and fruit, meat, fish, etc. ineffective in food. Development and marketing of food products, techniques and problems of developing, fabricating and merchandising. Ingredient regulation; taste panels, market testing, market research and patents. Processing of human food from local and international recipes. Content and properties of functional foods available in African countries. Natural toxins. The students would be introduced to **Ellen G. White** contribution on natural foods and blessings in fresh fruits and vegetables. She admitted that grain, fruits, nuts and vegetables constitute the diet chosen for us by our creator. The food prepared in simple and natural manner as possible are the most healthful and nourishing. They impart strength, a power of endurance and vigor of intellect that is not afforded by a more complex and stimulating diets. **The Ministry of Healing, 296.** Genesis 2:16

#### **NUDT 224: FUNDAMENTALS OF NUTRIENT METABOLISM**

**3 Credits**

In introduction, the course will refer to the chemistry and functions of cell constituents. However, the course will focus on: Biosynthesis and functions of nucleic acids, Relationship

between protein and nucleic acid, Structure and functions of enzymes and hormones, Metabolism of nutrients under different physiological conditions and inborn errors of metabolism. This direct us to the book of Psalms chapter 139 v 14 which confirms the creative power of God on mankind of which the Psalmist admitted that mankind is wonderfully made.

**NUDT 226: EVALUATION AND ANALYSIS OF FOODS AND DIETS 3 Credits**

This course will discuss the theory and practice of modern Principles of chemical and instrumental methods for the qualitative and quantitative analysis of moisture, protein, carbohydrate, lipids, dietary fiber, minerals and vitamins. Practical exercises in the analysis of major food components utilizing chemical and instrumental methods. Sampling techniques, pre-treatment of food samples prior to analysis, qualitative and quantitative analysis of foods, and body fluids for energy, moisture and nutrients. Application of the results in compiling food composition table to empower our students with different analytical methods. Student will be exposed to the food analysis instrumentation (Photometry, Chromatography, Refractometry etc). According to **Ellen G. White** in her book titled “**Diet and Spirituality**”. Stated that Lord has let His light shine upon us in these last days that the gloom and darkness which has been gathering in past generations because of sinful indulgence, might in some degree be dispelled and that the train of evils which have resulted because of intemperate heating and drinking might be lessened.

**NUDT 228: FOOD PRODUCTION AND SERVICE 3 Credits**

Origin of food service in hotels and hospitals. Food standard and service. Food selection and purchasing. Institutional Equipment. Cost control in management of hotel and hospital. Food products and preparation. Practical assignments in areas such as housekeeping, special parties’ salad deserts, meat and vegetables, dining room and bar. Bakery for all age groups, cake making and decoration for special occasions – weddings, birthdays, christening e.t.c. Simple soups, beverages from locally available grains and fruits. Food safety and hygiene practices. Our commitment (Adventist Heritage) according to Genesis 1: 26 – 28 is to utilize God’s provision at the beginning of the world to feed the Nation and to ensure proper nutrition with a view of sustaining health.

**MBIO 201: GENERAL MICROBIOLOGY I 3 Credits**

This course is designed to introduce students to historical aspects including origins and scope of Microbiology. Introduction to various forms and characteristics of microorganisms including bacteria, viruses, fungi, protozoa and algae. It also gives a brief account of their growth, reproduction, and distribution in nature, their relationships to each other and other living things and their beneficial and harmful effects on man. It also reviews the control of microbial pollution involving both physical and chemical agents. God wants His creatures to be in good health as our soul prosper (3 John 2), therefore excellence in personal hygiene is very key to avoiding microbial infections.

**STAT 204: BIostatistics 2 Credits**

Statistical inference, statistical theories, element of frequency distribution and probability distribution, characteristics of population and sample, parameters in statistics, basic laws of probability, probability and biblical promises.

**PHGY 221: GENERAL PRINCIPLES OF PHYSIOLOGY I 3 Credits**

Understanding of normal functioning of the human system. Maintain equilibrium between internal and external environments, review of cell and its properties including cell division, functioning of the digestive system, mechanism of defecation, blood and the cardiovascular system, body fluid mechanism, the respiratory and gas transport system breathing mechanism and control of respiration. Psalm 139:14 confirms the creative power of God on mankind of which the Psalmist admitted that mankind is wonderfully made.

**PHGY 222: GENERAL PRINCIPLES OF PHYSIOLOGY II 3 Credits**

Renal physiology, including urine formation and hormonal influences, micturition, the skin and general homeostasis. Reproductive physiology, membrane physiology and special senses. Functional organization of CNS, the PNS and autonomic nervous system. Function of neurotransmitters and general endocrinology. Psalm 139:14 confirms the creative power of God on mankind of which the Psalmist admitted that mankind is wonderfully made.

**ANAT 227: BASIC ANATOMY 3 Credits**

This course considers the fundamental knowledge of the body structure (using systemic approach) and levels of organization. Introduction to the human body. Major topics of consideration will include: Introduction to anatomy: to cover definition of terms, approaches to studying anatomy, anatomical terms, movement terms and body planes, general overview of the body systems such as integumentary, skeletal, muscular, digestive, cardiovascular, reproductive, respiratory, excretory, immune and nervous system. The structures, functions and the applied anatomy of these areas are to be discussed. Anatomy of some special senses can also be added and an introduction to embryology. The human body- as designed by God- has many parts that work together to ensure wholeness and completeness in function [Ephesians 4:16].

**NUDT 300: RESEARCH METHODS AND NUTRITIONAL EVALUATION OF FOODS 3 Credits**

The thrust of this course is on theory and statistical principles on research techniques in human nutrition-planning of research and investigation methods. Data collection organization and presentation of the data in acceptable form. Techniques used in Nutrition Research involving laboratory animals and man. Interpretation of results, correlations, levels of significance, regression analysis, standard error and deviations, sample distribution, use of percentiles and percentages in growth standards. The use of statistical software. Genesis 1: 31 indicated that all what God made was very good.

**NUDT 301: DIET THERAPY AND HOSPITAL PRACTICE I 3 Credits**

This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge in principles of dietary management of diseases, consideration for factors in patient care plan, co-ordinate nutritional services for patients, therapeutic modification of the normal diet and problems of planning therapeutic diets using local foods. Study of signs and symptoms, diagnosis and dietary treatment. Nutrient needs in surgery – pre and post-operative nutritional care following gastrointestinal tract surgery. Study of the diet for the vulnerable group; diarrhea; in infant, oral rehydration, clinical experience which involves visits to teaching hospital (Dietetics Kitchen). Genetic basis of diseases and application of dietetics practices. According to **Ellen G. White** in her book titled “**Counsels on Diet and Foods**”. The Lord will teach many in all parts of the world to combines fruits, grains and vegetables into

foods that sustain life and will not bring disease. Daniel 1:12 emphasizes the need for wholesome food that can ensure longevity and promote good health.

**NUDT 304: FOOD QUALITY EVALUATION AND CONTROL 2 Credits**

The course is designed to expose students to fundamental principles of food quality evaluation and development of standards. Topics in this course includes; determinants of food quality (taste, flavour, shape, size, texture, colour etc), Different methods of measurement of quality - instrumentation, chemical/ microbiological analysis, physical method and sensory evaluation. Also included are; food adulteration (detection and prevention) and enforcement of quality control and food laws. James 1:17 explained that every perfect gift comes from the Lord with whom there is no variability or shadow of turning.

**NUDT 309: NUTRITIONAL ASSESSMENT 3 Credits**

This course will focus on Methods and tools used in screening and assessment of nutritional status of individuals and population groups are studied. Assessment methodology includes dietary surveys, computerized dietary intake analysis, anthropometric measures, biochemical measures and clinical evaluations. Limitations of the various methods used for collecting dietary information will be discussed. Students will learn about assessment of body composition using a variety of techniques. Interpretation of data will be applied through case study. Daniel 1:12-15.

**NUDT 314: PERSONNEL AND INSTITUTIONAL MANAGEMENT 2 Credits**

Organizational structures in food service in institutions and hospitals. Effective staffing, staff recruitment; discipline and management. Staff welfare and work output. Sanitation and safety. Planning institutional catering for all age groups. Menu planning, budgeting, book keeping, nutritional considerations of institutional meals. Servant Leadership should be the hallmark for our students as they depart to serve the world.

**NUDT 318: PRACTICE OF NUTRITION 2 Credits**

Students will be involved in execution of community nutrition surveys of individuals and groups in institution, in urban and rural setting Methods used in nutrition surveys – anthropometry, food balance sheets, morbidity and mortality. Vital statistics, clinical signs; growth monitoring, growth chart methods; construction and use of questionnaires; various parameters used in food consumption surveys. Food composition tables. Coverage of survey, sampling, methodology, processing, interpretation and use of survey results. Calorimetry, measurement of energy expenditure in man. Planning of diets for individuals and groups. Preparation of visual aids and testing of nutrition education materials. Visit to hospitals, clinics and nutrition programme. **Ellen G. White** in her book titled “**The Health Reformer**”. When we do all we can on our part to have health then may we expect that the blessed result will follow and we can as God in faith to bless our effort for the preservation of health.

**NUDT 323: CHEMISTRY OF FOODS 3 Credits**

This course will discuss various chemical, physical and biochemical changes occurring in foods during handling, processing and storage of food in order to increase the awareness of possible food interactions as it occurs today. Water relations of foods - the concept of water activity and sorption isotherms. Deterioration of lipids, auto-oxidation of unsaturated fatty acids, pro-oxidants and anti-oxidants in foods. Methods of measurement of changes in food lipids. Enzyme

systems important to food quality. Application in the food industry; enzymatic and non-enzymatic browning reactions - nature, occurrence and inhibition. Vitamin stability in foods; other storage changes of nutritional importance. Food carbohydrates-gelatinization, retro gradations, modification of starches and application of modified starches. Food flavours and additives and their role in organoleptic analysis. According to **Ellen G. White** in her book titled “**Counsels on Diet and Foods**”. Explained that the knowledge of the way of life, peace, health, must be given line upon line, precept upon precept, that men and women may see the need for reform.

### **NUDT 325: MENU PLANNING, AND RECIPE DEVELOPMENT      3 Credits**

The course is designed to expose students to major determinants of food selection, purchasing and planning of meals for special occasions. Definition of menu planning, (that will be healthier and spend less), importance, benefits and types of menu. Culinary perspective on menu planning, food selection, purchasing and menu planning for different occasions. Standardization of menus, cooking procedures with reference to quality and cost. Importance of menu as a cost control tool, sales, advertising, merchandizing, and marketing tools. Principles of recipe development and the importance of new recipe and standardization process. Students will gain an understanding in the development process of menus for each of the food service industry including breakfast, lunch and dinner. Principles of recipe formulation, presentation and meal planning tips. Practical planning of adequate diets for the family, pregnant women, lactating mothers, infants, adolescents and the old members of the family. Meal planning for Vegetarian diet and recipe development. According to **Ellen G. White** in her book titled “**Christian Temperance and Bible Hygiene**” state that people cannot all eat the same things. Some articles of food that are wholesome and palatable to one person may be hurtful to another. So it is impossible to make an unvarying rule by which to regulate everyone’s dietetic habits.

### **NUDT 328: HUMAN NUTRITION AND DIETETICS (NURSING STUDENTS)      3 Credits**

Historical perspectives of Nutrition and Dietetics as a science. Classification of foods, their nutritional values and effects on health with emphasis on local foods. Provision of **adequate** diets and use of food composition table. Also to be covered is the relationship between digestion and absorption of food. Identification of the relationship between nutrition and the body. Principles of diet therapy in different disease condition with emphasizes on chronic diseases. Exploring the effects of change in diet from creation with emphasize on God’s original intentions for the type of food to consume and make accountable choices. According to **Ellen G. White** in her book titled “**Counsels on Diet and Foods**”. The Lord will teach many in all parts of the world to combines fruits, grains and vegetables into foods that sustain life and will not bring disease. Daniel 1:12 emphasizes the need for wholesome food that can ensure longevity and promote good health.

### **NUDT 329:                                      FOOD TOXICOLOGY                                      2 Credits**

This course will discuss food additives and contaminants, importance and safety, legitimate and illegitimate uses, the GRAS and regulations affecting use of food additives including chemical preservatives, organic and inorganic microbial antagonists, quality improvers such as flavorings, buttering and neutralizing agents. Emphasis will be placed on environment policies and future of food additives, sources of toxins, interaction of toxic synthetic chemicals with food antagonists

and promoters. Food processing and food toxins, haemagglutinins, antivitamin, protein inhibitors, etc. Toxins from food, cyanogenic glycosides, steroidal alkaloids, microbial toxins (mycotoxins, etc). Students will learn more on hazards from pesticide residues, irradiation toxicity of packing materials. Concept of pollution, and environmental toxicants - air, land, water sound and industrial effluents. According to **Ellen G. White** in her book titled “**Counsels on Diet and Foods**”. Explained that the knowledge of the way of life, peace, health, must be given line upon line, precept upon precept, that men and women may see the need for reform.

**NUDT 331: INTRODUCTION TO CLINICAL NUTRITION AND HOSPITAL PRACTICE 3 Credits**

Malnutrition as a health problem. Identification of clinical signs of malnutrition. Classification of nutritional disease. Discussion of over-nutrition, under-nutrition, disease due to biological and chemical toxicants in foods. Causes and prevention of nutritional diseases. Pathology, aetiology, epidemiology, clinical manifestation, treatment and prevention of nutritional diseases. Diet and dental diseases, Diet and cancer. Nutritional basis of diseases-renal, G.I. Diabetes, hypertension etc. nutritional applications to management of diseases. Metabolic diseases such as diarrhoea, measles and allergies. Nutrition and immunity. Daniel 1:12 emphasises the need for wholesome food that can ensure longevity and promote good health.

**NUDT 390: STUDENTS' INDUSTRIAL WORK EXPERIENCE (SIWES) 6 Credits**

By extension, students will have three months industrial training in a standard food service institution or food industry and another three months in a hospital. The assessment of students will be undertaken jointly by the industrial-based supervisors and the institution supervisors. Finally, students on returning to the institution will present a seminar and submit a report on major duties performed and skills acquired during the training.

**BCHM 339: BIOCHEMISTRY OF NUTRIENT METABOLISM 3 Credits**

By extension, our students will be exposed to theoretical aspect of nutrient requirements and availability, Biological oxidations i.e metabolism of different nutrients, Effect of diet on biochemical processes and reference standard, Inter-relationship of nutrients and regulatory mechanisms of various nutrients. Evaluation and the interpretation of relevant biochemical data for complete conditions. Ellen G. White writing in her book titled Christian Temperance and Bible Hygiene, “God has provided us with constitutional force, which will be needed at different periods of our life. If we recklessly exhaust this force by continual over taxation, we shall sometimes be losers” would be reiterated.

**NUDT 402: NUTRITION AND CONSUMER EDUCATION 2 Credits**

Students will be familiarized with principle and methods of nutrition education in households, villages and at institutional level. To learn ways of improving the socio-cultural economic aspects of foods viz-a-viz food habits, food taboos, and food choice of consumers. Right and responsibilities of consumers in food choices and implications of consumer's decision. Matthew 28:19 says teach them all that I have commanded you. Writings of **Ellen G. White** in her book titled “**Unpublished Testimonies, 1896**”. It is the positive duty of physicians to educate, educate, educate, by pen and voice, all who have the responsibility of preparing food for the table.



**NUDT 405: SEMINAR IN NUTRITION 1 Credit**

Undergraduate level overview of techniques for platform presentation of written/oral scientific papers. Emphasis will be on oral presentation, delivery content organization and audience perspective. The course consists of lectures, student presentation and constructive critiques. The course will equip the students with inspiration on conceptualized frame work to develop well-organized, meaningful, written and oral and poster presentations. Aspect of dynamic delivery of informal and formal scientific presentations. The simple use of visual aid in public presentation. Integrity being a core value of the University, students are encouraged to be dedicated in their professionalism.

**NUDT 409: NUTRITION PLANNING AND POLICY 2 Credits**

This course includes planning and implementation of National Nutrition Policy. The Conceptual Approaches to Systematic Planning of national food and nutrition policy. Integration of Nutrition in development, Economics of Malnutrition, Economic Importance of Nutrition in National Development, Targeting, Implementation, Monitoring and Impact Assessment are also discussed. The various issues of Sustainability, Poverty Reduction and Nutrition Advocacy will be discussed. Daniel 1:12 emphasizes the need for wholesome food that can ensure longevity and promote good health.

**NUDT 417: DIET THERAPY AND HOSPITAL PRACTICE II 3 Credits**

The course will further inform the students on the advanced study in diet and disease states. Dietary management of different diseases. Interpretation of biochemical results. Calculation of energy requirements using the Food Exchange List. Preparation of diet sheet; Clerking and Record Keeping. Diet therapy of various pathological and metabolic disorders with emphasis on diseases of the locomotors, respiratory, nervous systems. In-born errors of metabolism, allergies, and diseases of kidneys, lower pancreas and thyroid. Student will learn how to give dietary counseling. According to **Ellen G. White** in her book titled “**Counsels on Diet and Foods**”. The Lord will teach many in all parts of the world to combines fruits, grains and vegetables into foods that sustain life and will not bring disease. Daniel 1:12 emphasizes the need for wholesome food that can ensure longevity and promote good health.

**NUDT 418: INTERNATIONAL NUTRITION 2 Credits**

This course will discuss in details international food security concepts and implementation. Students will understand how nutrition can bring about Global harmony and world food and nutrition policy formulations. Other global environmental issues that affect nutrition will be discussed. Nutrition programmes during national and international ward, famines, droughts etc. political dimensions of malnutrition and international economy of foods. Conceptual approach to the global solution of nutrition policy. Role of international relief agencies. Relationship of various United Nations Agency in averting world hunger. Ellen G. White in her book “The Signs of the Times” wrote “I would advise young men and women to give heed to this matter. Perilous times are before us. The whole world will be involved in perplexity and distress. Diseases of every kind will be upon the human family, and such ignorance as now prevails concerning the laws of health will result in great suffering and the loss of many lives that might be saved”.

**NUDT 422: ADVANCES IN HUMAN NUTRITION 2 Credits**

This course is designed to focus on priority areas of research in human nutrition in developing and developed areas. Study of the nutritive process with a focus on the micronutrients; interrelationships among nutrients and mechanisms by which nutrients are metabolized in the cell; the interpretation and application of research in nutrition studies. Also, students will learn about energy balance in human body compartments, physiology of pregnancy and lactation. Issues concerning nutrition, learning and mental development will be addressed. Genesis 1: 31 indicated that all what God made was very good.

**NUDT 423: COMMUNITY NUTRITION 3 Credits**

Students will have the opportunity to analysis of current nutrition programs and services at the local, state and national level. Students are likely to benefit from the impact of nutrition policies and legislation on the health of a community. Identifying the nutrition needs of a community and learning how to plan, Implement, and evaluate a community nutrition program. Role of kitchen, gardens, poultry, fisheries in improving the community nutrition. Computer Application in community nutrition e.g. use of EPI Info, ANTHRO plus, STATA, SPSS, Dietary Analysis Software. Factors in the community influencing nutritional status, economic and socio-cultural methods of assessment and implementing community nutrition programme and education. Matthew 28:19 says teach them all that I have commanded you.

**NUDT 427: ADVENTIST PHILOSOPHY AND CONTEMPORARY ISSUES OF VEGETARIAN DIET 2 Credits**

Students will be introduced to various studies of science of nutrition as related to the Seventh-day Adventist philosophy of health. Emphasis will be placed on introduction to contemporary issues and controversies related to vegetarian diets. Students will learn various health benefits in comparison to non-vegetarian lifestyle. Background information on biblical views as related to Christian ethics in nutrition, ecological and environmental issues will be studied in-depth. **Ellen G. White** in her book titled “**The Health Reformer**”. A careful conformity to the laws God has implanted in our being will insure health and their will not a breaking down of constitution. Daniel 1:8-16

**NUDT 428: PUBLIC HEALTH NUTRITION 3 Credits**

This course will focus on nutritional problems of Public health importance. The students will learn in detailed the effect of malnutrition on physical and mental development as related to improvement of health and nutritional status of people within their locality. Emphasis will place on food sanitation and safety, environment and nutrition. Students will know about the strategies in the development of primary health care and nutrition of Nigerians. Leviticus chapter 11 highlighted the animals that are clean and unclean in order to be in health. Furthermore, **Ellen G. White** in her book “**Special testimonies to Ministers and workers**” says a responsibility to spread the knowledge of hygienic principles rests upon all who have enjoyed the benefits of health reform.

**NUDT 431: NUTRITION THROUGH ALL AGES 3 Credits**

The students will be exposed to study about life from conception, infancy, pre-school, school age, adolescent, young adult, pregnancy, lactation, and old age. The students will have the opportunity to learn about the nutritional needs of the healthy person throughout the life cycle, the impact of socio-economic, cultural, and psychological factors on food and nutritional

behaviour. Review of infant feeding in Nigeria. This direct us to **Ellen G. White's** writing in "The Review and Herald" Misuse of the body shortens that period of time which God designs shall be used in His service. By allowing ourselves to form wrong habits, by keeping late hours, by gratifying appetite at the expense of health, we lay the foundation for feebleness by neglecting to take physical exercise by over working mind or body, will unbalance the nervous system. Those who thus shorting their lives by disregarding nature's law are guilty of robbery before God.

**NUDT 433: CLINICAL NUTRITION AND HOSPITAL PRACTICE 3 Credits**

This course introduces nutrition as a disease therapy and the role of the clinical dietitian as a member of the health care team. Topics covered include nutrition screening and assessment, medical records documentation, basic dietary modifications and patient/family counseling. A study of the use of diet in preventing illness and as a means of treating disease. Emphasis is given to patient education. Students are expected to attend Nutrition clinic. Presentation of group talk on a nutrition-related topic in any of the out-patient clinics; and case study of a diet-related disease by students; Submission of a written report. Knowledge and understanding of pharmacology, mode of action of the main types of drugs, function, side effects and contraindication of drugs used in the treatment of diseases where dietitian as member of the clinical team. According to **Ellen G. White** in her book titled "**Counsels on Diet and Foods**". It is the duty of the physicians to see their wholesome foods is provided and should be prepared in a way that will not create disturbance in human organism.

**NUDT 490: RESEARCH PROJECT 6 Credits**

The student is expected to study fairly critically a special problem in the area of nutrition and dietetics under the supervision of an academic staff, present a project report and defend his/her findings before a panel comprising internal and external examiners.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE 3 Credits**

The course is designed to enable the students to understand the Biblical fact that God is the creator, designer and sustenance if life and all that is in existence. God through His creative power brought into existence every herb and every fruits and vegetable yielding plants to produce according to their kind and to serve as food for mankind. The course will enable the students explain the relationship between nutrition and health laws of God that promote longevity. Students will be exposed to various cooking and processing methods of nutritive vegetarian diet, being the original approved diet permitted by God and the blessings attached to those who observed His safety rules on the use of fruits, herbs and vegetables

## DEPARTMENT OF PHYSIOLOGY



*Professor M. O. OLOWOOKORUN, DVM, Ph.D, FCVSN, FPSN  
Head of Department*

### **LIST OF STAFF**

OLOWOOKORUN, M. O., PhD	- Professor of Gastro intestinal Physiology
AJIBOYE, K. I., B.Sc., MSc, MPhil, PhD	- <b>Lecturer 1</b> , Gastro Intestinal Physiology and Endocrine Secretions
Oyesola, T. O., B.Sc, MSc, MPhil, PhD	- <b>Lecturer 1</b> , Reproductive Physiology
OGUNSOLA, A.O., B.Sc., MSc, FMLS, PhD	- <b>Lecturer II</b> , Reproductive Physiology
NABOFA, E.W., B.Sc., MSc, PhD	- <b>Lecturer II</b> , Cardiovascular and Metabolism
ADEKUNBI, D.A., B.Sc., MSc, PhD	- <b>Lecturer II</b> , Neurophysiology
EHICHIOYA, D.E., B.Sc., MSc	- <b>Lecturer II</b> , Sleep Physiology
ALABI, G.M., B.Sc., M.Sc	- <b>Assistant Lecturer</b> , Endocrinology and Metabolism
ADEOYE, D. A., B.Sc., M.Sc	- <b>Assistant Lecturer</b> , Neurophysiology

### **TECHNICAL STAFF**

ADEOTI, I.A., AIST, ANIST - **Asst. Chief Technologist**, Physiology Pharmacology

Technique and Microbiology Virology  
MBADINUJU, H.U., ND., HND, PGD, NIST - **Technologist I**, Physiology Pharmacology  
Technique  
OYEWUNMI, S.O., OND, B.Agric., M.Sc - **Senior Animal House Supervisor**  
EJIKUNLE, O.O., B.Agric., M.Sc - **Administrative Secretary**

### **PART TIME LECTURERS**

ONASANWO, S.A., B.Sc., M.Sc, Ph.D - **Associate Professor**, Neurophysiology  
AWOBAJO, F. O., B.Sc., M.Sc, Ph.D - **Senior Lecturer**, Neuroendocrinology  
MORAKINYO, A. O., B.Sc., M.Sc, Ph.D - **Senior Lecturer**, Endocrine and Reproductive  
Physiology

### **PHILOSOPHY OF DEPARTMENT**

The Bachelor of Science in Physiology programme is designed to train scientists in an atmosphere of intellectual quest and individual creativity to equip them for research that will ensure wholesome contribution to the health industry.

### **VISION STATEMENT**

To put in place not just an undergraduate programme but graduate programme and be relevant to modern day research needs. Desire to move with the trends and advancements in Medical Sciences and pay attention to Medical Sciences not only from the angle of curative research but also preventive research.

### **MISSION STATEMENT**

The programme is designed to train scientists in an atmosphere of intellectual quest and individual creativity to equip them for research that will ensure wholesome contribution to the health industry.

### **AIMS/OBJECTIVES**

At the end of the programme, the students should be able to:

1. Demonstrate detailed knowledge and understanding of the various aspects of Physiological Science as to be able to contribute positively in research and total person care.
2. Apply their knowledge and skills to the solution of theoretical and practical problems in Physiology.
3. Appreciate the expediency of Physiological science in industrial, economic, environmental, health and social context

### **ADMISSION REQUIREMENT**

Prospective candidates for the programme must have five Ordinary Level Credits or equivalent in English Language, Mathematics, Biology, Chemistry, and Physics in not more than two sittings. In addition candidates must sit and pass the Babcock University screening test (written and oral).

**GRADUATION REQUIREMENT**

All other conditions are in line with BU policy.

<b>LEVEL</b>	<b>GENERAL EDUCATION COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON- DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
<b>100</b>	<b>17</b>	<b>-</b>	<b>24</b>	<b>41</b>
<b>200</b>	<b>15</b>	<b>12</b>	<b>23</b>	<b>50</b>
<b>300</b>	<b>09</b>	<b>27</b>	<b>6</b>	<b>42</b>
<b>400</b>	<b>07</b>	<b>30</b>	<b>-</b>	<b>37</b>
<b>TOTAL</b>	<b>48</b>	<b>69</b>	<b>53</b>	<b>170</b>

**BACHELOR OF SCIENCE (B.Sc. HONS), PHYSIOLOGY  
100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and study skills	2	-
GEDS107	Introduction to General Psychology	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 120	ICT –Fundamentals and office productivity management.	2	-
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
	<b>TOTAL (41 Credits)</b>	<b>22</b>	<b>19</b>

**BACHELOR OF SCIENCE (B.Sc. HONS), PHYSIOLOGY  
200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	2	-
GEDS 215	Fundamentals of Christian Faith	3	
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	-	2
GEDS 280	Leadership Skills		2
GEDS 290	Spreadsheet and Digital Presentation	-	2
	<b>CORE COURSES</b>		
ANAT 201	Gross Anatomy of the Limbs	3	-
ANAT 202	Gross Anatomy of the Trunk	-	3
ANAT 207	General Histology and Cytology	3	-
ANAT 209	General Embryology	3	-
BCHM 201	Foundations of Biochemistry I	3	-
BCHM 202	Foundations of Biochemistry II	-	3
PHGY 208	Cardiovascular Physiology	-	3
PHGY 212	Respiratory Physiology	-	3
PHGY 213	Blood and Body Fluid Physiology	3	-
PHGY 217	Introductory Physiology and Autonomic Nervous System	3	-
PHSC 218	Biostatistics and Informatics	-	3
BIOL 206	Cell and Developmental Biology	-	2
**PHGY 221, 222	General principles of Physiology I, II	3**	3**
	<b>TOTAL (50 Credits)</b>	<b>25</b>	<b>25</b>

\*An optional 4 weeks certificate course in ECG, EEG proficiency and other areas of cardiac technology will be available during the summer for students with no carry overs. This will equip students with skills necessary for being a core part of patient care especially in the area of cardiovascular health while also giving them an edge/option of a career into the diagnostic arm of health industry.

\*\* To be taken by other departments



## BACHELOR OF SCIENCE (B.Sc. HONS), PHYSIOLOGY

### 300 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
GEDS 270	Peace and Conflict Resolution	2	-
	<b>CORE COURSES</b>		
PHGY 301	Gastrointestinal Physiology	3	-
PHGY 304	Endocrinology	-	3
PHGY 309	Neurophysiology I	3	-
PHGY 311	Reproductive Physiology	3	-
PHGY 312	Research Methodology	-	3
PHGY 314	Renal Physiology and Temperature Regulation	-	3
PHGY 316	Neurophysiology II	-	3
PHGY 324	Introduction to Medical Psychology	-	3
PHGY 326	Introduction to Epigenetics	-	3
PHGY 327	Introduction to Pharmacology	3	-
PHGY 328	Pharmacology of Drugs	-	3
	<b>TOTAL (42 Credits)</b>	<b>19</b>	<b>23</b>

\*An internship during summer in EEG and ECG techniques will be available for certified students.

**BACHELOR OF SCIENCE (B. Sc. Hons), PHYSIOLOGY**  
**400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	-	2
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
PHGY 401	Animal Experimentation	3	-
PHGY 403	Literature Review/Seminar	3	-
PHGY 407	Selected Topics in Gastroenterology	3	-
PHGY 409	Neuroendocrinology	3	-
PHGY 411	Cardiopulmonary Physiology	3	-
PHGY 413	Laboratory Teaching and Instrumentation	3	-
PHGY 416	Exercise and Environmental Physiology	-	3
PHGY 420	Comprehensive Exam in Physiology	-	3
PHGY 490	Research Project	-	6
	<b>TOTAL (37 Credits)</b>	<b>21</b>	<b>16</b>

## **BACHELOR OF SCIENCE (B.Sc. HONS), PHYSIOLOGY COURSE DESCRIPTIONS**

### **GEDS 001, 002: CITIZENSHIP ORIENTATION 0, 0**

Mandatory general orientation for all freshmen and women admitted into Babcock University to socialize them into the Babcock University academic, social, moral and spiritual culture. No student will be allowed to register for the second semester 100 level without having earned an "S" grade for satisfactory performance in the Citizenship Orientation.

### **GEDS 101: INTRODUCTION TO PHILOSOPHY OF CHRISTIAN EDUCATION 2 Credits**

A study of the efforts of philosophy to provide answers to major human problems and the scriptural principles and philosophical basic of Christian education with particular emphasis on the Seventh-day Adventist educational system.

### **GEDS 105: USE OF LIBRARY SKILL AND STUDY 2 Credits**

The course is designed to introduce students to psychological study methods and the importance of Library as a source of information. Emphasis is given to circulation. Filing/shelving, shelf reading cataloguing and classification. The history of libraries, modern trends in library practices and application of computer in library operations is briefly discussed.

### **GEDS 107: INTRODUCTION TO GENERAL PSYCHOLOGY 2 Credits**

A survey of the major fields of interest in psychology including the following: Biological basic of behaviour, sensation, perception, and the state of consciousness. Learning, memory, motivation, Emotion, personality, health psychology, abnormal behaviour, sexuality, intelligence and applied psychology.

### **GEDS 126: LIFE AND TEACHINGS OF JESUS THE MESSIAH 3 Credits**

This course briefly investigates the background to the Four Gospels, problems of authorship, dates, places or writing and the source theories and subsequently focuses on the Man, Mission, and Ministry of Jesus Christ as reflected in the parables, miracles and other teachings of Jesus as recorded in the gospels.

### **GEDS 131, 132: COMMUNICATION IN ENGLISH I, II 2 Credits**

Effective communication and writing in English, Language skills, writing of essay, answers comprehension. Sentence construction. Outlines and paragraphs, collection and organization of materials and logical presentation and punctuations.

### **GEDS 134: NIGERIAN PEOPLE IN GLOBAL CULTURE 2 Credits**

Study of Nigerian history, culture and arts in pre-colonial times, Nigerians' perception of the world, culture areas of Nigeria and their characteristics, Evolution of Nigeria as a political unit within the scope of a global system; indigene/settler phenomenon. Concepts of trade; Economic self-reliance; Social justice; Individual and national development; Norms and values; Negative attitudes and conducts (cultism and related vices): Re-orientation of moral and national values. Moral obligations of citizens: Environmental problems.

Activities of living things. Basic cell types: Prokaryotic and Eukaryotic cells. Cell structure and organization. Function of cellular organelles. Mitosis. Meiosis and heredity. Characteristics and classification of living things. Reproduction. Interrelationship among organisms. Relationship between structure and function.

A brief account of the evolution of plants: Bacteria, Fungi, Algae, Lichens, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms. The major characteristics, structure and physiology of each group. Ecology and types of habitat. Diversity of life-Acellular animal (protozoa), Coelenterates, Acoelomate animals (Platyhelminthes). Nematode, Mollusca, Arthropods, Echinodermata, Chordates concept of ecology of the organisms.

Measurements, concentration units, thermochemistry, atomic structure, periodicity, nomenclature, chemical bonding, states of matter, colligative properties, redox, acids/bases, gases, concentration units, states of matter.

Prerequisite: Secondary school chemistry, algebra or concurrent enrollment in General Mathematics.

Kinetics, equilibria, electrochemistry, descriptive inorganic chemistry of main groups I,II, III, IV, nuclear chemistry, introduction to biochemistry(carbohydrates, disaccharides, proteins, lipids, nucleic acids), introduction to organic chemistry: functional group chemistry, isomerism, nomenclature, hybridization, etc.

Space and Time, Units and dimension, Kinematics; Fundamental Laws of Mechanics, statics and dynamics; work and energy; Conservation laws. Elasticity; Hooke's law, Young's shear and bulk moduli, Hydrostatics; Pressure; buoyancy, Archimedes' Principles, surface tension; adhesion, cohesion, capillarity, drops and bubbles. Temperature; heat; gas laws; laws of thermodynamics; kinetic theory of gases. Sound, Applications.

Electrostatics; conductors and currents; dielectrics; magnetic fields and induction; Maxwell's equations; electromagnetic oscillations and waves; applications.

Elementary set theory, subsets, union, intersection, complements, venn diagrams. Real numbers; integers, rational and irrational numbers, mathematical induction, real sequences and series, theory of quadratic equations, binominal theorem. Complex numbers; algebra of complex numbers; the Argand Diagram. De Moivre's theorem, nth roots of unity. Circular measure, trigonometric functions of angles of any magnitude, addition and factor formulae.

**MATH 102: GENERAL MATHEMATICS II 3 Credits**

Function of a real variable, graphs, limits and idea of continuity. The derivative, as limit of rate of change. Techniques of differentiation. Extreme curve sketching; integration as an inverse of differentiation. Methods of integration, Definite integrals. Application to areas, volumes. MATH 101, 102.

**GEDS 200: COMMUNICATION IN FRENCH 2 Credits**

The study of the basic structure of French Language, paying careful attention to the oral as well as the written aspects.

**GEDS 221: INTRODUCTION TO AGRICULTURE 2 Credits**

Origin and development of agriculture. Types of cropping systems and their importance. Agricultural policies. Soil science including types of soil, soil conservation and losses. Crop production to include an example each of cereals, tuber, vegetables and tree or fruit crops. Actual cultivation of one of the crops. Crop pests and diseases. Classes of livestock, with an example of monogastrics, ruminants and non-conventional livestock. Health, reproduction, management and nutrition of Livestock. Importance and problems of Agriculture in Nigeria.

**GEDS 222: HISTORY AND PHILOSOPHY OF SCIENCE 2 Credits**

Man- his origin and nature; Man and his cosmic environment: scientific methodology; Science and technology in the society and service of man; Renewable and non-renewable resources – man and his energy resources; Environmental effects of chemical plastics. Textiles, Wastes and other material. Chemical and radiochemical hazards; Introduction to the various areas of Science and technology.

**GEDS 215: FUNDAMENTALS OF CHRISTIAN FAITH 3 Credits**

This course is a general survey of major biblical teachings regarding revelation/inspiration, creation, and salvation.

**PHGY 208: CARDIOVASCULAR PHYSIOLOGY 3 Credits**

Overall objective for this course is for the student to understand and appreciate the structure and functioning of the various units that makes up the CVS; which are the heart, arteries, capillaries and veins, while emphasizing on the virtue of **team spirit** as the heart and vessels work in harmony to make man hail and healthy by transporting blood around the whole body.

The mechanical events of the heart; cardiac cycle, output and its estimation reflect on the importance of **excellence** which the heart and vessels maintains as determined by the systolic, diastolic and pulse pressure.

**PHGY 212: RESPIRATORY PHYSIOLOGY 3 Credits**

This course puts forth the fact that man's dependence should be on God for it was God's breath that gave rise to man's breathing (Gen2:7). It also puts forth the fact that our creator is wonderful as the simple to somewhat complex mechanisms and processes that underlies effortless breathing.

**PHGY 213: BLOOD AND BODY FLUID PHYSIOLOGY****3 Credits**

This course offers a look into the central role that blood plays in the human system. From its formation to the functions of its various components the students will learn that truly the life of the organism is in its blood. Team spirit among blood cells will be emphasized.

**PHGY 217: INTRODUCTORY TO PHYSIOLOGY AND ANS****3 Credits**

Physiology is basically the study of the normal functions of the different parts of the body. This course gives general introduction to the subject of physiology starting from the cell's structure and function as the building units of the body to all muscles and nerves, to the autonomic and sympathetic nervous systems and how Physiology relates to modern day technology in research and scientific discovering also human genetics, and human genome. The course portrays how the cells are accountable for the effective functioning of the human body and emphasize the team spirit of the body organs. The description of Reuben in Genesis 49:3 can be likened to the description of a cell in the study of Physiology. In this course, topics like Membrane potentials, Nerve impulse and its physiological properties; Synaptic transmission. Mechanism of force production; functional adaptations of muscles. Functional organization of central nervous system, autonomic neurotransmitter and autonomic effects will be taught.

The mechanical events of the heart; cardiac cycle, output and its estimation reflect on the importance of **excellence** which the heart and vessels maintains as determined by the systolic, diastolic and pulse pressure.

**PHGY 301: GASTROINTESTINAL PHYSIOLOGY****3 Credits**

The role of the digestive system in ensuring nutrition is provided for the body system. Emphasis will be on the best food substrates for the body system which coincidentally are vegetarian just as is found in the Bible. Accountability of the system in energy balance and nutrient processing will be stressed.

**PHGY 304: ENDOCRINOLOGY****3 Credits**

**This** focus of the course is on the various endocrine organs in the body that work together to ensure that standards are maintained. As the Bible tells in that our bodies have many parts but they all work together. In regulation of blood glucose, hormones from different organs from different parts of the body work together to make sure that its concentration is kept within normal range.

**PHGY 309: NEUROPHYSIOLOGY I****3 Credits**

The focus of this course is on the second aspect of the mechanism by which the body responds to stimuli either internally or externally. It will further explain how impulses are generated like electrical activities in the body.

**PHGY 311: REPRODUCTIVE PHYSIOLOGY****3 Credits**

This course is focused on knowing the structures that make up the male and female reproductive system and their various functions. It also aims to explain how this system works in order to obey the instruction handed over to Adam – to reproduce and multiply. The course will also explain how the reproductive hormones work as a team in ensuring that the various events go on hand in hand. The stages of fetal development explains what the Bible says about being fearfully

and wonderfully made. Various ways by which unwanted pregnancies can be prevented will also be discussed.

**PHGY 312: RESEARCH METHODOLOGY**

**3 Credits**

Author index, general subject index, current contents, index medicus, chemical/biological abstracts, reprint requests/personal communications, electronic bibliographical index (assignment/test). Data Handling; summary methods. Illustration of data. Writing scientific papers; Research proposals. Reviews and books, journal papers; common errors in the preparation of text, illustrations, references, units, symbols and abbreviations etc. Critical analysis and seminar presentation; critiques of published papers in local and international journals, oral presentation and seminar skills.

**PHGY 314: RENAL PHYSIOLOGY AND TEMPERATURE REGULATION 3 Credits**

This course teaches about the structure and functionality of the organ and accessory structures involved in urine formation as well as the process by which urine is formed. It accounts for the commitment and integrity of the micro structures of the kidneys to be able to process urine formation at all times each day.

It also highlights the involvement of the skin and kidneys in the maintenance of homeostasis.

**PHGY 316: NEUROPHYSIOLOGY II**

**3 Credits**

**God** has created man perfectly and this course allows one to appreciate the complexity of the brain which is that part of the central nervous system that includes all the higher nervous centers. The basic and more advanced principles explaining mechanisms of locomotion and maintenance of posture are included in the course. The structure and functions of the different parts of the brain enable us to see God as a creator with excellence.

**PHGY 324: INTRODUCTION TO MEDICAL PSYCHOLOGY**

**3 Credits**

This course deals with the basics of Psychology, Psychobiology and their associated theories. There is a cursory at Psychopathology, and various personality traits. The course also looks at the influence of culture and the environment on personality. In this course, topics such as intelligence, stress management, addiction, depression and anxiety, memory and cognitive development, the four core types of emotion and emotional intelligence, will also be considered.

**PHGY 326: INTRODUCTION TO EPIGENETICS**

**3 Credits**

Molecular structure of the chromosomes. Gene structure, function and interactions. Structural changes in the genes and deviation from basic principles. Aspect of genetics. Pedigree analysis. Theory of Lamarck, Darwin, speciation variation, natural selection.

This course will give an introduction to the fundamentals of epigenetic control. We will examine epigenetic phenomena that are manifestations of epigenetic control in several organisms, with a focus on humans. We will examine the interplay between epigenetic control and the environment and finally the role of aberrant epigenetic control in disease.

**PHGY 327: INTRODUCTION TO PHARMACOLOGY**

**3 Credits**

This course offers a look into the concepts surrounding drug formation, how they work in our body system and their use in therapy. A link to our original state after creation and why we fall

sick will also be made. The autonomy of each drug pathway and its responsibility to the rest of the system will be highlighted.

**PHGY 328: PHARMACOLOGY OF DRUGS 3 Credits**

This course builds on Introduction to Pharmacology and explores the underlying principles of drug action especially focusing on drug-receptor interaction which is more like the obedience and blessing system. A look at the side and effects of drugs emphasizes why drug usage was not originally part of the academic plan for man. Emphasizes the impact of the disturbance of the excellent system God created caused by over-use/abuse of drugs. The course also focuses on pharmacotherapy and mechanisms of drug action in various body system.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE 3 Credits**

An application of the biblical worldview in the study of physiology. Examining the concept of the development of the total man (body, mind and spirit) with respect to biblical view of health, disease and wellness. Implication of the great controversy and entrance of sin on man and health. Linkage between wellness and vegetarianism. Emphasize man's accountability for the maintenance of his physiological system in the light of God-given autonomy and responsibility.

**PHGY 401: ANIMAL EXPERIMENTATION 3 Credits**

Animal care and handling. Choice of animal for experiments. Blood Collection, Ovariectomy, Thyroidectomy. Transit time/Total acid determination. ECG & HRV IHC. Testicular Perfusion/Orchidectomy. Muscle Twitch. Vaginal Smear & estrous cycle monitoring. Ova Count, Nephrectomy.

**PHGY 403: LITERATURE REVIEW/SEMINAR 3 Credits**

This course focuses on oral and written presentations of current scientific research in Physiology. Presentations will include topics of interest from referenced journals or original research. Integrity is reiterated to the students by emphasizing proper referencing in reporting findings, where plagiarism is highly discouraged.

**PHGY 407: SELECTED TOPICS IN GASTROENTEROLOGY 3 Credits**

The course involves knowing more about the specific important functions of the gastrointestinal tract and related structures both in normal and abnormal situation. The gastrointestinal tract is very important to the well being of human life because it is the fuelling Center for man. As the word of God is the foundation for our faith, so is the gastrointestinal tract is the site for production of energy for our physical existence. Different sections of the gastrointestinal tract work together to produce the normal digestion and absorption of food and also the expulsion of the waste products in the faeces. This is a typical example of team spirit.

**PHGY 409: NEUROENDOCRINOLOGY 3 Credits**

This course explains the historical origins that exist between the two coordinating mechanisms of the body – nervous and endocrine system. It further explains how the feedbacks are coordinated by the 'Master gland' in ensuring that all is working to ensure that a stable state is established in the body.



Historical origins of a Neuro-endocrine connection. A review of the physiologic anatomy of hypothalamo-pituitary link. Current concepts of channels of communication between the hypothalamus and the pituitary. Hypothalamic neurosecretions. The “master gland” of the endocrine system. Pituitary hypothalamus, the pituitary and other endocrine organs.

**PHGY 411:      CARDIO-PULMONARY PHYSIOLOGY                      3 Credits**

The cardiovascular system is a system that all other body systems rely on. As it is the system that ensure nutrients and oxygen are transported to various organs of the body and it also ensures that by products, waste materials and CO<sub>2</sub> are transported from various organs of the body, thereby preventing toxicity. This brings to fore what the bible teaches about the heart – ‘guard your heart with all diligence for out of it flows the issues of life’. Godly living demands we pay attention to the things we let into our heart; for the things we let into our heart will circulate into all other areas of our life.

This course puts forth the fact that man’s dependence should be on God for it was God’s breath that gave rise to man’s breathing (Gen2:7). It also puts forth the fact that our creator is wonderful as the simple to somewhat complex mechanisms and processes that underlies effortless breathing.

**PHGY 413:      LABORATORY TEACHING AND INSTRUMENTATION      3 Credits**

Opportunity for students to review the Physiological concept of system taught and understand them so thoroughly as to enable them demonstrate the concept using available equipment to Medical or more junior Physiology Students.

This course gives the students an opportunity to demonstrate the knowledge and skills acquired so far in the program to their fellow students paving the way for them to be future teachers a la ‘so send I you’ of the scriptures. This should foster the spirit of excellence and at the same time servant leadership among students.

**PHGY 416:      EXERCISE AND ENVIRONMENTAL PHYSIOLOGY      3 Credits**

The human body needs constant exercise for the organs such as the heart to function normally and also the muscles to perform at their best. The scriptures say that bodily exercise has little profit; but that little profit is needed for the body to fulfill its God sent purpose. This course will attempt to explain the various ways God has equipped the human body to cope with different types of exercises that man may be exposed to. Also the influence of the environment (under the course of sin) and the impact it makes on our body system such as extremes of temperature (heat and cold), abnormal metabolism and the resultant diseases such as diabetes, ulcer, in-born errors among others will be considered. This course will teach us to be accountable and be of integrity as our actions impact the earth.

**PHGY 420:      COMPREHENSIVE EXAM IN PHYSIOLOGY                      3 Credits**

A comprehensive review and examination of all topics covered since the beginning of the Physiology program.

**PHGY 490:      RESEARCH PROJECT    6 Credits**

Student will select a topic of interest with relevance to modern trends in Physiology and undertake an in-depth study and research under the guidance and supervision of a faculty member. The project will be defended.

## **M B B S PROGRAMME GENERAL REGULATIONS**

### **MISSION STATEMENT**

To offer high quality medical education to students within a system of demonstrated Christian values and beliefs, that will foster the moulding of Christian physicians, educated to provide whole-person care to individuals, families, and communities.

### **OBJECTIVES**

1. Creating an environment in which medical students will acquire the knowledge, skills, values and attitudes appropriate to Christian Health Professionals and scholars.
2. Creating an atmosphere of inquiry and discovering new routes to wholeness through basic and clinical research.

3. Training and producing medical doctors with internationally acceptable knowledge of the scientific foundations of medicine, but with a clear orientation towards the health and medical problems in Nigeria, especially in respect of the necessity for the young doctor to assume responsibility for independent actions and decisions in many spheres soon after internship.
4. Producing doctors who in addition to practical skill for handling common health problems, medical emergencies, a strong inclination to broad community health, preventive medicine, as well as ability to lead a health team and manage, at least, a small health service in this country and be suitable for postgraduate training anywhere in the world.

### **REGULATIONS GOVERNING THE DEGREE OF MBBS**

1. Courses of instruction shall be provided leading to the degree of Bachelor of Medicine, Bachelor of Surgery. to be denoted by the letter MBBS. A distinction may be awarded to candidates of special merit in any subject. A mark of 70% and above qualifies for distinction. For a student to obtain a pass, he must score 50% in each subject and must obtain a pass in the Clinical Examinations. Study for the degree shall be on full time basis and normally over six years.
2. Admission requirements: The entry requirement shall be through Unified tertiary institution admission (UMTE) a minimum of Five Credits in core sciences namely, Mathematics, Physics, Chemistry, Biology and English language.
3. For Direct Entry, a higher school certificate or its equivalent or Bachelor of Science degree with second class upper division in life science disciplines – Anatomy, Biochemistry, Biology, Medical Laboratory Science, Microbiology, Nursing, Physiology, Physiotherapy, Public health and Zoology from Babcock University or any institution recognized by the Senate of Babcock University. All eligible candidates must present their transcript and credit in English language, Mathematics, Biology, Physics and Chemistry at one sitting in the Ordinary Level examination. The candidate will be screened to ascertain his/her suitability to study medicine at Babcock University.
4. Length of Courses and Examinations: The curriculum for the degree of Bachelor of Medicine, Bachelor of Surgery shall normally not extend over six (6) years, provided that candidates may be permitted by senate to extend the period of study on the grounds of absence from the school or from the relevant courses of instruction owing to ill-health or for other reasons as may be approved.
5. The examination for the degree of Bachelor of Medicine, Bachelor of *Surgery*) shall be in five parts. The school shall place strong emphasis on continuous assessment system in order to ensure that students demonstrate excellence throughout the entire period of study. However, to proceed to 200 level of MBBS, a candidate must pass all core courses at 100 level on one and the same occasion. The score expected of such a candidate shall not be less than 50% or a C (letter grade). There will be no resit or carryover at the end of

100 level courses. Candidates who fall short of the requirement shall be advised to pursue a course in one of the natural sciences.

6. **(PART I) PROFESSIONAL EXAMINATION.** The subjects of the Part I examination shall be: Anatomy, Physiology and Medical Biochemistry
  - a. The Part I examination shall be held in March of the third year and re-sit examination will be in six weeks after the first examination.
  - b. Candidates who fail one or two of the subjects of the Part I examination will be required to repeat the failed subject(s) at the next sitting of the re-sit examination.
  - c. Candidates who fail in three subjects of the Part I examination will be required to repeat the whole year.
  - d. Candidates who fail a re-sit may be allowed to repeat the whole year.
  - e. Candidates are allowed only four (4) attempts (including re-sit) at the Part I examination before they are advised to withdraw from the School. Candidates who fail to pass the papers in Part I examination after two (2) years in a class will be advised to withdraw.
  - f. Candidates who fail in any of the subjects after the re-sit examination are required to provide a letter or other documentation giving reason to believe they will be successful if allowed to repeat the year by senate on the recommendation of the academic board.
  - g. Candidates who have not completed the requirement for the Part I examination must petition and may be allowed to join the in-coming first year class and repeat the continuous assessment.
  - h. No candidate shall be admitted to the Part 2 examination unless he has passed in all subjects of Part 1 examination.
7. **(Part II) Professional Examination:** The subjects of Part II Examination shall be:
  - a. Pathology-Morbid Anatomy, Hematology & Immunology, Microbiology, Parasitology, Chemical Pathology, and Pharmacology.
  - b. No candidate shall be admitted to the Part 2 examination unless he has passed in all subjects of Part 1 examination.
  - c. Candidates attempting the Part 2 examination for the first time shall present themselves for examination in all subjects in May of the fourth year.
  - d. Candidates who fail to satisfy the examiners in one subject of the examination may proceed with their clinical postings, but must submit themselves after six weeks for re-examination in the subject which they failed. Those who failed the two subjects will be required to repeat the whole year.
  - e. Candidates who fail in any subject of the re-sit examination shall be required to repeat the whole year.
  - f. Each candidate is allowed a maximum of four attempts (including re-sit) after which he/she will be advised to withdraw from the program.

- 8. (Part III Professional Examination):** This examination will be conducted January of the sixth year of study. The subjects to be examined shall be Pediatrics, Obstetrics and Gynecology.

Candidates who fail to satisfy the Examiners in one or all subjects must submit themselves after six weeks for re-examination in the subject or subjects in which they failed.

Candidates may be allowed to continue their clinical postings while preparing for their re-sit in their respective subjects.

No candidate shall proceed to the next stage of the examination unless he has passed the required subjects in the previous stage of the examination.

- 9. (Part IV) Professional Examination:** The examination will be conducted in June of the sixth year and the subjects in this Examination shall be Medicine, Surgery and Community Medicine.

Those who fail to satisfy the examiners in any of the three subjects may submit themselves at the next following occasion for re-examination in those subjects which they failed. Any candidate who is unable to pass completely at the end of the 9<sup>th</sup> year of study will be advised to withdraw from the program.

### **SCHOOL EVALUATION SYSTEM**

Progressive assessment is a periodic test taken at the end of each body system, a posting or an equivalent program. Because of the intensiveness, uniqueness and integrated nature of the medical curriculum, a weighting is given to C.A (Continuous Assessment) which constitutes 30% of the final or professional examination. A student whose overall C.A does not satisfy the qualifying score (50%) for that examination/subject is not eligible to sit for the final examination.

The performance of medical students during the program is based on two types of examination:

- (a) Continuous assessment
- (b) Final or professional examination

In either case the examination may be in the form of theory, practical, clinical, and viva voce or a combination of some of these.

Class attendance, at 75% minimum attendance before sitting for any examination.

### **EXTERNAL EXAMINERS**

**External examiners shall be invited to participate in the conduct and moderation of the professional examinations.**

### **GENERAL SUMMARY**

Candidates who for no acceptable reason absent themselves from any examination shall be deemed to have failed the examination.

Candidates shall be required to satisfy the school with regards to period approved for the practical course work as may be defined in the syllabus.

The list of successful candidates for the degree shall be published with the names arranged alphabetically indicating those who pass with distinction in any subject.

Any of these regulations may from time to time be altered by the senate on the recommendation of the College Academic Board.

## **GENERAL EDUCATION COURSES**

### **1.0 RELIGIOUS COURSES**

The religion courses requirement for medical students in this program consist of 8 courses (19 units). The religious courses will span through the years of training.

#### **1.1 THEOLOGICAL STUDIES (9 Credits)**

##### **RELM 205: GOD AND HUMAN SUFFERING 3 Credits**

The theology of suffering and evil in relation to the purpose of God in creating and redeeming this world.

##### **RELM 206: BIBLICAL FOUNDATIONS FOR HEALTH AND MEDICAL MINISTRY 3 Credits**

An examination of the Biblical basis and principles of health and medical ministry as a basis for contemporary health and medical ministry. The role of the physician as a co-worker with God in the healing of humankind is also explored.

##### **RELM 308: ADVENTIST BELIEFS AND LIFE 3 Credits**

A study of selected Fundamental Beliefs of the Seventh-day Adventist faith and lifestyle which arises from such faith.

#### **1.2 ETHICAL STUDIES (4 Credits)**

##### **RELM 315: MEDICINE AND ETHICS 2 Credits**

An introduction to Christian medical ethics with emphasis on personal integrity of the medical practitioner in the process of moral decision making and ethical problems in contemporary medicine. Issues such as abortion and euthanasia are discussed.

##### **RELM 416: ADVANCED MEDICAL ETHICS 2 Credits**

Advanced study of ethical issues in contemporary medical studies

#### **1.3 APPLIED THEOLOGY (2 Credits)**

##### **RELM 417: WHOLENESS FOR PHYSICIANS 2 Credits**

Knowledge, values and skills essential to the physician's aim of personal wholeness.

#### **1.4 CLINICAL MINISTRY (4 Credits)**

##### **RELM 513: ORIENTATION TO RELIGION AND MEDICINE 2 Credits**

Examination of the relationship between Scripture and the practice of medicine.

##### **RELM 518: ART OF INTEGRATIVE CARE 2 Credits**

The integration of psycho-social and spiritual care in the clinical setting.

**PRE- MEDICINE  
MEDICINE AND SURGERY  
100 LEVEL COURSES**

**PRE- MEDICINE  
MEDICINE AND SURGERY  
100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 120	ICT Fundamentals and Office Productivity Management.	2	-

GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
CHEM 101	General Chemistry I	3	
CHEM 102	General Chemistry II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
	<b>TOTAL (43S Credits)</b>	<b>22</b>	<b>21</b>

## **2.0 BASIC MEDICAL SCIENCES YEAR 2**

The courses to be taught at the basic medical sciences should include Anatomy, Physiology and Medical Biochemistry.

In the case of human anatomy, practical must involve dissection of cadavers. The examination of dissected specimens will take a much larger instruction time with supplementary lectures. The practical classes in Physiology and Medical Biochemistry will have to involve some basic minimum equipment and the acquisition of sufficient skills for performing simple tests and analysis on tissues and body fluids as well as whole animal and human experiments as a basis of appreciating measurement of normal human function in order to appreciate abnormal function in the latter parts of the course.

### **2.1. ANATOMY (ANAT)**



ANAT 223	Gross Anatomy I	3 Credits
ANAT 224	Histology and Histochemistry	3 Credits
ANAT 225	Embryology	3 Credits
ANAT 226	Gross Anatomy II	3 Credits
ANAT 227	Gross Anatomy III (Including Neuroanatomy)	3 Credits
ANAT 228	Genetics	2 Credit
<b>TOTAL</b>		<b>17 Credits</b>

### **COURSE DESCRIPTIONS**

General Anatomy-Anatomical Terminologies, General Characteristics of bones, muscles, fascia, joints, anatomical relations.

#### **ANAT 223: GROSS ANATOMY I 3 Credits**

Superior Extremity (Upper Limb)

Pectoral Region, Cubital Fossa, Carpal Tunnel, Hand, Nerves, Injuries, Shoulders, Elbow and Wrist Joints and Osteology of pectoral girdle and free limb-bones, Vascular anastomosis and lymphatic drainage of the breast and upper limb, Nerve supply.

Inferior Extremity (Lower Limb)

The femoral triangle, the gluteal region, the thigh, the leg, the foot, hip, knee, ankle and mid tarsal joints, vascular anastomosis, venous return, lymphatic drainage, osteology, comparisons between upper and lower limbs.

#### **ANAT 224: HISTOLOGY AND HISTOCHEMISTRY 3 Credits**

Advanced study of cell, cell theory and basic tissues. Relevant techniques in histology, tissue processing and sectioning and preservation of museum specimens. General Histology, the cell, epithelia, connective tissue-loose and special (cartilage, bone) muscles –smooth, striated and cardiac. Basic principles and applications of histochemical techniques for tissue analysis with emphasis on enzyme, protein, lipid, carbohydrate as well as immunochemistry.

Cardiovascular System: Blood vessels, lymphoid tissue (Immune system)

Respiratory System: Nose, Pharynx, tracheo-bronchial tree, lungs and pleura

Gastrointestinal System: oral cavity, oesophagus, stomach, intestines, livers and pancreas.

Urogenital System: Kidney, ureter, bladder, urethra, ovary, uterus, fallopian tube, vagina, testis, epididymis, vas deferens, seminal vesicles and prostate.

Endocrine Glands: Pancreas, pituitary, adrenal, thyroid, parathyroid, APUD.

Nervous and Integumentary: Meninges, cerebrum, basal ganglia, cerebellum, brainstem, spinal cord, skin, eye, ear, olfactory apparatus.

#### **ANAT 225: EMBRYOLOGY 3 Credits**

General Embryology: Gametogenesis, Fertilisation, Cleavage, Blastocyst, Germ Layers, Foetal membranes, Implantation. Abnormalities of Membranes, Abnormal chromosome behaviour and basic cytogenetic terminologies. Ossification, limb bud formation. General concepts in development-Induction, Determination and Differentiation, apoptosis as well as molecular basis of development.

Cardiovascular System: Blood Vessels, Cardiogenic Cells, Heart Tubes, subdivisions, septum formation, Truncus arteriosus, Aortic Arches, major arterial and venous channels, Congenital Abnormalities

Respiratory and Gastrointestinal System: Nasal Cavity, Oral Cavity, Tracheo-Oesophageal tract, Rotation of stomach, rotation of gut, mesenteries, liver and pancreas, Histogenesis of epithelial cells and glands. Cleft palate, Fistulae, Urogenital System: Origin of Primordial Cells, Derivations from coelomic epithelium, Mesonephric, Paramesonephric ducts, partitioning of Cloacae. The Urogenital sinus. Indeterminate sex, imperforate anus and vagina, Branchial Arches and Glands: Components of arches and their derivatives. Pituitary, Thyroid, Thymus, parathyroid, Tonsil. Tongue-Lingual, Thyroglossal Cysts. Nervous and integumentary systems: brain vesicles, Derivation and Organization of cellular layers of Central Nervous system, peripheral Nerves, Eye, Ear, Skin, Spina Bifida, Encephaloceles, etc

### **ANAT 226:**

### **GROSS ANATOMY II**

**3 Credits**

Thorax

Intercostal spaces, typical and atypical lung, various subdivisions of the mediastinum, Diaphragm, Autonomic nervous system. Osteology of the ribs and thoracic vertebrae.

Abdomen, Pelvis and perineum

Anterior abdominal wall, Inguinal canal, Scrotum, Peritoneum, Stomach, Small and large intestines, posterior Abdominal wall and associated structures, Rectum, Prostate, Urinary bladder, Uterus, Pelvic Floor, Lumbosacral plexus, general organisation of blood vessels and nerve supply and lymphatic drainage of the region, perineal pouches, Ischiorectal fossa and anal canal. Osteology of the lumbar vertebrae and pelvis.

*Emphasis on anthropometry, osteology and anatomical variations shall be made.*

### **ANAT 227: GROSS ANATOMY III**

**3 Credits**

General features of the skull and mandible, external surface of the base of the skull, calvaria internal surface of the skull, cranial fossae, hypophysis cerebri, cervical vertebrae, bones of the skull, interior of the cranium mandible, scalp temple and face. Topography of Scalp and Face, Nerve supply and blood supply to the face, side of the neck, anterior and posterior triangles of the neck, Dural Venous Sinuses, Thyroid and Parathyroid blood vessels and nerves of the neck (cervical plexus, blood vessels and nerves of the back including sub-occipital triangle Cranial Cavity, meninges, venous sinuses hypophysis cerebri, cranial nerves. Nasal cavities, paranasal sinuses. Oral cavities, tongue, palate, tonsils, pharynx. Deep dissection of the neck including thyroid and parathyroid glands. Muscles of the back of the neck blood vessels and nerves of the back including sub-occipital triangle cervical nerves III, IV, VII Cranial nerve deep dissection of blood vessels and nerves of neck, paracervical region, orbit and lacrimal apparatus orbit and extra ocular muscles, Blood vessels and nerves of the orbit. Study of the nervous system with emphasis on the clinical application of the motor, sensory and autonomic controls of the nervous system. Brain and spinal cord. Reflex arc. Cerebrum, cerebellum, midbrain, pons, medulla oblongata. Ascending and descending tracts of the brain and spinal cord. Limbic system, olfactory pathways, visual pathways and auditory pathways. C.S.F. Ventricles of the brain. Autonomic nervous system.

### **ANAT 228:**

### **GENETICS**

**2 Credits**

Basic Genetics and Cytogenetics – Genetic principles, variation in gene expression in man. Patterns of inheritance, autosomal or sex-linked. Cytogenetics including classification of human chromosomes and methods of preparation of human chromosomes. Genetics in development, gene regulation, molecular biology and human genomics.

## **2.2 MEDICAL BIOCHEMISTRY (MBCH) 11 Credits Lecture 6 Credits Practical**

BCHM 213	Introduction to Biochemistry	3 Credits
BCHM 214	Chemistry of Biological Molecules	3 Credits
BCHM 215	Metabolism	3 Credits
BCHM 216	Nutrition and Nutritional Biochemistry	3 Credits
BCHM 217	Special Topics in Biochemistry	3 Credits
BCHM 218	Biochemistry of bioactive Compounds	2 Credits
<b>TOTAL</b>		<b>17 Credits</b>

## **COURSE DESCRIPTIONS**

### **BCHM 213: INTRODUCTION TO BIOCHEMISTRY 2 Credits**

Acid-base chemistry. Elementary Thermodynamics. Chemical Kinetics and Orders of Reaction. Organic Reactions.

### **BCHM 214: CHEMISTRY OF BIOLOGICAL MOLECULES 3 Credits**

Structural organisation of biopolymers. Structure properties and functions of carbohydrates. Structure, properties and function of nucleic acids and proteins. Structure and biological function of nucleic acids and genetic engineering. Lipids and membrane structure, membrane component and their organization, purification methods and amino acids sequence determination from complementary DNA (cDNA) and reconstitution from erythrocytes, membrane signals and protein kinase C; Mitochondrial structure, function, biogenesis and apoptosis.

### **BCHM 215: METABOLISM OF BIOLOGICAL MOLECULES AND BIOENERGETICS 3 Credits**

Biochemical catalysis of enzymes including coenzymes. Central metabolic pathways. Biosynthetic pathways. Generation of metabolic energy. Regulation of metabolic processes, mechanism of enzymatic reactions, biochemical mechanism of intra and inter cellular communications and prevention of human diseases. Carbohydrate metabolism; hexose monophosphate shunt, inter-conversion of monosaccharides, glucose tolerance tests, diabetes mellitus, hypoglycaemic disorders, metabolic syndrome, carcinogenesis, role of minerals in metabolism and vitamins in metabolism; Protein and amino-acid metabolism, lipid metabolism; interrelationship between amino acid and other micronutrients, chemoprevention, one carbon metabolic pathway relationship of cobalamine and folate to purine and pyrimidine metabolism. Biocatalysts, enzyme kinetics and nomenclature, enzymes and isoenzymes in clinical diagnosis.

### **BCHM 216: NUTRITION AND NUTRITIONAL BIOCHEMISTRY 3 Credits**

The course in nutrition is aimed at exposing medical students to the pivotal role of adequate and appropriate nutrition in virtually all health conditions, and how in particular, traditional beliefs,

customs and habits in developing countries like Nigeria affect the growth and development of children. The course would serve to bridge the biochemistry course in basic nutrition with exposure to nutrition in pediatrics, medicine and surgery by emphasizing the pathophysiological aspects, major classes of foods and their functions; carbohydrates, fats, protein, vitamins, minerals, trace elements, dietary fiber. Daily food required and recommended intakes, protein calorie malnutrition, biochemical changes in kwashiorkor and marasmus. Role of protein deficiency in growth and development, consequences of over nutrition – obesity, overweight and consequences, dietary fiber and disease. Food processing, preservative and adverse effects; Diet and dental disease; Nutrition and cancer, methods for the assessment of nutrition status. Nutritional requirements and nutritional disorders. Biochemical functions of trace elements. Lipo-soluble vitamins. Hydro soluble vitamins. Coenzyme structure and functions.

### **BCHM 217: SPECIAL TOPICS IN BIOCHEMISTRY 3 Credits**

Endocrinology: Endocrinology-structure, function and molecular mechanism of action of steroid, thyroid and polypeptide hormones. Hormonal deficiency diseases and their detection. Methods of hormone assay.

In-Born Errors of Metabolism: Molecular basis of metabolic diseases. Biochemistry derangement in G-6-PD deficiency, sickle cell anemia, glycogen storage diseases, etc.

Xenobiotics and Forensic Biochemistry: Metabolism of foreign compounds. Principles of drug metabolism, drug activation and detoxification, regulatory factors in drug metabolism, Induction of microsomal enzymes and drug resistance. Molecular and cellular mechanisms of toxicity and carcinogenesis, pharmacokinetics and drug distribution and pharmacogenetics. Medico-legal blood, urine and sweat test. Recent developments in forensic techniques.

Immunochemistry: Molecular basis of immune reactions. Structure and function of immunoglobulin. Antigen – Antibody interactions. Immunological laboratory methods. Physical properties, structure and function of nucleic acids, genetic manipulation, mutagenesis.

Oncology: Nature of malignant tumours, incidence, epidemiology and aetiology of human cancer, phenotypic characteristics of transformed malignant cell; molecular basis of the phenotypic derangement of the cancer cell; some future prospects for preventing and curing cancer, techniques in cell and tissue culture.

Neurochemistry: The neuron: Structure, Composition and Metabolism. Neurohormonal Regulatory Mechanisms. Metabolic Antagonism in Neurochemistry.

### **BCHM 218: BIOCHEMISTRY OF BIOACTIVE COMPOUNDS 2 Credits**

Bioactive glycolipids. Diterpenoids, limonoids, antimalarial natural products, antioxidant plant constituents, anti HIV aromatic compounds from higher plants, flavonoids, antitumor drugs and bioactive terpenoids

## **2.3 PHYSIOLOGY (PHGY)**

PHGY 213	General Principles of Physiology, Blood and Body Fluids	2 Credits
PHGY 207	Cardiovascular and Respiratory	3 Credits
PHGY 208	Gastro-intestinal Physiology, Nutrition and Metabolism	3 Credits
PHGY 209	Renal Physiology	2 Credits

PHGY 210	Endocrinology and Reproduction	2 Credits
PHGY 212	Nerves, Muscles and CNS	3 Credits
PHGY 214	Special senses.	2 Credits
<b>TOTAL</b>		<b>17 Credits</b>

## **COURSE DESCRIPTIONS**

### **PHGY 213: GENERAL PRINCIPLES of PHYSIOLOGY, BLOOD & FLUIDS**

**2 Credits**

Introduction and History of Physiology. Structure and function of cell membranes with emphasis on transport across cell membrane. Biophysical principles. Osmosis, diffusion, active transport. Homeostasis and control systems. Blood and body fluids: fluids of blood cellular components, blood groups, hemoglobin, haemopoiesis. Body fluids and electrolytes: their measurement and regulation. Advanced techniques in physiological research involving handling of experimental data, planning and reporting of physiological experiments; Practical demonstrations in physiological experiments in vivo and in vitro techniques in physiological research.

### **PHGY 207: CARDIOVASCULAR AND RESPIRATORY 3 Credits**

Organization and structure of aorta and large arteries and arterioles – as resistance vessels, capillaries as sites of tissue fluid exchange. Heart-properties and function of cardiac muscle. Regulation of heart rate and cardiac output. Baroreceptors and control of arterial blood pressure. Regional circulation: heart, brain, haemorrhage, exercise, posture, altitude.

The respiratory tracts: structure and function. Pulmonary gas exchange, mechanics of respiration, compliance, surfactant, lung volumes and capacities, uptake and delivery of respiratory gases with reference to O<sub>2</sub> and CO<sub>2</sub> transport. Pulmonary functions tests. Response to hypoxia, high altitude, exercises etc. artificial respiration, chemical and neural control of respiration.

### **PHGY 208: GASTRO-INTESTINAL PHYSIOLOGY, NUTRITION AND METABOLISM 3 Credits**

Gastrointestinal tract, innervations and visceral sensations of the Gut, mobility and secretions, gastrointestinal hormones, pancreatic and biliary secretions, its adaptability to absorption of carbohydrates, protein, nucleic acids, fat, water, mineral etc, liver function tests.

Principles of nutrition, vitamins and minerals, energy metabolism and metabolic rate, calorie deficiency states.

### **PHGY 209: RENAL PHYSIOLOGY 2 Credits**

The Nephron, urine formation, Urinalysis, urinary concentration, ADH and Osmolality, Acids Base Balance, micturition, Endocrine function of the kidney

### **PHGY 210: ENDOCRINOLOGY AND REPRODUCTION 2 Credits**

Physiology of the male and female reproductive systems and neuro-endocrine involvement in reproduction; puberty; menstrual cycle including ovulation; menopause; andropause and other endocrine organs. Physiology of coitus, pregnancy, human reproduction, lactation and contraception. Physiology of the pancreas, adrenal glands, pituitary, thyroid glands and

parathyroid glands. Effects of hypophysectomy, syndromes and diseases of hyper/hypo-functioning of pituitary and adrenal cortex. Diabetes mellitus. Assessment of male infertility, sperm counts, pregnancy tests, determination of ovulation time, contraception. Mechanisms for integration of organ systems. Emphasis on hormonal factors in the inter-relationships of the organisms. Historical advances in the field of endocrinology. Hormone estimation and mechanism of hormone action. Gonadotropic hormones and prolactin, malignancy and hormones, Clinical and biochemical features arising from defective gonadal development, biochemistry of hormones, endocrine function testing – current trends, endocrine aspects of common tumours and their markers.

**PHGY 212: NERVES, MUSCLES AND CNS**

**3 Credits**

Sympathetic and parasympathetic pathways, role in the various systems-especially cardiovascular respiratory and gastrointestinal. Excitable tissue and nervous system: structure and classification of muscles, excitation and contraction. Theories and principles involved in muscle contraction, resting membrane and action potentials, generation of impulse in excitable tissues, nerves and neuromuscular transmission. Simple reflex and spinal reflexes. Spinal cord – ascending, descending pathways receptors. Thalamus -sensory and motor cortex. Control of posture and movement. The reticular activating system, sleep, neural centers regulating visceral functions. Neurophysiologic basis of instinctive behaviour, conditioned reflexes, learning, temperature regulation. Theories of neurotransmitter release in peripheral cholinergic and sympathetic neurons. Biochemical studies and critical evaluation of evidence. Feedback mechanisms in transmitter release including the role of presynaptic and postsynaptic adrenoceptors and peripheral synapses. Clinical physiology of pain Counter irritation and the gate theory of pain. Direct and indirect cortical control systems. Neurology of breathing. Somesthesia

**PHGY 214: SPECIAL SENSES**

**1Credit**

*Physiology of special organs and senses including the ear, eyes, nose, taste and touch*

**SCHOOL OF BASIC CLINICAL SCIENCES**



***Professor Fayefori Mpakaboari ABBIYESUKU***  
***DEAN***

### **3.0 LABORATORY MEDICINE YEAR 3**

The practice of medicine is both an art and a science. The art of medicine is at the bedside, its science lies in the laboratory but a physician is only as good as his pathology. Laboratory medicine (Pathology is what distinguishes scientific or modern medicine from traditional or natural medicine. The aim of the course in laboratory medicine in the medical School should therefore be to lay a sound and solid scientific foundation for clinical practice whether at the primary, secondary or tertiary health care delivery level. Unless this foundation is well laid, the end-product will be defective and the legitimate expectation of a health care delivery system unattainable.

#### **Departmental Objectives**

The course in laboratory medicine (Histopathology), Morbid Anatomy, Haematology, Chemical pathology (Clinical Chemistry), Bacteriology, Mycology, Parasitology, Virology and Immunology is designed to introduce the student to the following areas:

The concept of disease, its causes, pathogenesis manifestation and possible outcome. The study of altered physiology, anatomy and biochemistry. The investigations of states of altered physiology. The application of the results of laboratory investigations to health care delivery.

#### **COURSE OBJECTIVES**

At the end of the course in Laboratory medicine, the student should be able to:

- (a) demonstrate adequate knowledge of the pathological basis of disease
- (b) demonstrate adequate knowledge of the pathophysiology of common diseases
- (c) select relevant tests for the confirmation of common disease conditions

- (d) Perform simple side-room laboratory tests to aid the correct interpretation of the clinical features of illnesses.
- (e) Suggest, where appropriate, the correct management of disease states on the basis of laboratory findings
- (f) Correctly collect and preserve specimens for appropriate investigations
- (g) Perform an autopsy and preserve specimen for toxicology and histology
- (h) Recognize basic tissue alternations in inflammation and neoplasia

<b>3.1.</b>	<b>Medical Microbiology (MBIO)</b>	<b>Year 3/4</b>	<b>9 Units</b>
	MBIO 301	Bacteriology	2 Credits
	MBIO 322	Virology	1 Credit
	MBIO 303	Mycology	1 Credit
	MBIO 318	Parasitology	2 Credits
	MBIO 326	Applied medical microbiology	2 Credits
	MBIO 317	Medical Entomology	1 Credit

<b>3.2</b>	<b>Chemical Pathology (CHEM)</b>	<b>Year 3/4</b>	<b>6 Credits</b>
	CHEM 309	Clinical Chemistry	4 Credits
	CHEM 316	Laboratory Analysis	2 Credits

<b>3.3</b>	<b>Haematology (HEMA)</b>	<b>Year 3/4</b>	<b>2 Credits</b>
	HEMA 301	General Haematology and Blood Transfusion	2 Credits

<b>3.4</b>	<b>Immunology (IMMN)</b>	<b>Year 3/4</b>	<b>2 Credits</b>
	IMMN 301	Basic Immunology	2 Credits

<b>3.5</b>	<b>MORBID ANATOMY, HISTOPATHOLOGY AND FORENSIC MEDICINE</b>		
	<b>YEAR 3/4</b>		
	PATH 301	General Pathology	3 Credits
	PATH 302	Systemic Pathology	3 Credits
	PATH 303	Histopathology Practicals	3 Credits
	PATH 304	Forensic Medicine	2 Credits
			<b>11 Credits</b>



## **COURSE DESCRIPTIONS**

Introduction to forensic medicine-history, definition. Medico-legal system-medical examination/coroner. Nigeria Medical Council. Medical Defense Unions. Legal issues relevant to reproductive health sexual offences – Rape, Defilement (below 16years) incest; abortion and miscarriage. The doctor's duty at the science of death-natural, un-natural. Signs of death, estimation of the time of death. Circumstances and treatment of poisoning including investigations of death due to poisoning. Some local poisons. Wounds-bruises, abrasions, lacerations, incisions, cut-throat and stab wounds. Injuries in road traffic accidents. Firearms and firearm wounds. Asphyxia –crash asphyxia, hanging, strangulations, suffocation. Drowning, burns, electrocution, deaths from lightning. Consent, professional secrecy, medical negligence. Writing a medico- legal report; the doctor in court ; the coroner and his duties. Alcohol abuse.

### **4.1 MICROBIOLOGY (MBIO)**

The course in medical microbiology consist of six parts. At the end of the medical microbiology course, the student should be able to apply the knowledge of medical microbiology, that is bacteriology, virology, medical parasitology, medical mycology, medical helminthology and medical entomology to the practice of human medicine.

#### **MBIO 301: BACTERIOLOGY**

**2 Credits**

Infectious diseases. Nature and classification of bacteria of medical importance. Mechanisms of pathogenicity and virulence microbial metabolism and multiplication. Exotoxin-producing bacteria. The process of bacterial destruction (sterilization and disinfections). The normal flora of the human body-descriptin and identification of the following organisms. Salmonella typhi, Shigella spp. Mycobacterium spp. Brucella spp. Spirochetes, Listeria. Yersinia spp. Vibrios. Campylobacterium spp. Enterobacteriace. Ancient etobacterium spp. Pseudomonas spp. Actinomyces and Nocardia, Chlamydia, Mycoplasmas, Rickettsia spp.

It will include handling, collection and transportation of clinical specimens, culture from food, water, blood, urine, stool, sputum, spinal fluid and other body fluids as well as antimicrobial sensitivity testing, resistance, serodiagnosis and bioassay, control of nosocomial infections.

#### **PRACTICAL BACTERIOLOGY**

Students will be expected to be able to list all the basic safety procedures in the microbiology laboratory. Demonstrate ability to prepare film and stain with Grams reaction. Ziehl-Neelsen reaction, negative staining reaction and spore staining reaction. Demonstrate ability to prepare wet mounts to show pus cells shape of bacterial motility, demonstrate ability to use the light microscope. Demonstrate ability to inoculate agar plates with different specimen. Describe colonial appearance ability to inoculate agar plates in specific manners such as Demonstrate ability to count bacteria in water, milk or food, clothing e.g. Hospital blankets, linen and urine, demonstrate bacterial flora of the skin, mouth, hair, teeth, gingival crevices, perform and interpret sensitivity test using disks impregnated with antibiotics, demonstrate ability to perform sterilizing efficiency test for 'Dettol' (Chlorohexyphenol), boiler and autoclaves, 'Savlon'(cetrimide) and hibitane (chlorohexidine), demonstrate ability to perform slide agglutination tests for staphylococci, salmonella spp and E. Coli.

**MBIO 322: VIROLOGY****2 Credits**

The development and cultivation of medically important viruses. Basic properties; and classification of viruses, systemic differences against viruses. Description and identification of the following viruses: influenza virus, polio viruses. Small pox virus, Herpes virus, Hepatitis, Mumps and Epstein-Barr viruses. Small pox virus. Herpes virus. Hepatitis. Mumps and Epstein-Barr viruses. Description, identification pathogenesis, clinical picture, laboratory diagnosis, prevention and control of Human Immunodeficiency Virus (HIV) Pre and post screening counseling. Assay of viruses, viral nucleic acid replication, inhibition of viral replication; viral interferon, significances of incomplete and defective interfering particles, tumour virology, viral immunology, techniques of viral diagnosis. Practical virology: Students will be expected to recognize and interpret the following serological test for the identification of viruses. Complement fixation test (CFT), Neutralisation test (NT) and Haemagglutination test (HAT) demonstrate ability to recording book forming viruses demonstrate ability to recognize the effects of virus in experimental animals

**MBIO 303: MYCOLOGY****2 Credits**

Development of medical mycology, nature and classification of medically important fungi. Description and identification of the following fungi: Microsporium spp, epidemophyton spp. Trichophyton spp. Candida albicans, Cryptococcus neoformans. Histoplasma spp. Cutaneous, subcutaneous and systemic mycoses and their treatment. Pathogenesis, serology, epidemiology of poisonous mushrooms, production and effect of mycotoxins. Chemotherapy.

**PRACTICAL MYCOLOGY**

Students will be expected to demonstrate ability to perform skin scrapings for the diagnosis of superficial dermatomycoses, demonstrate ability to recognize different morphological types of fungi under the microscope. Recognize colonial morphology of the fungi on sabourands agar. Isolation, identification and serology of fungi.

**MBIO 318: MEDICAL PARASITOLOGY****2 Credits**

Different types of parasites: Classifications, properties, structure and life cycle, including the identification of various stages of the following protozoa; plasmodium spp. Toxoplasma gondii, entamoeba histolytica and gingivitis, opportunistic pathogenic amoeba, non-pathogenic amoebae Giardia intestinalis, Trichomonas spp. Balantidium Coli. Trypanosoma spp. Leishmania spp. Sarcoptes scabiei, malaria, Leishmaniasis. Microsporidiosis cyclosporiasis. Zoonoses. The importance of ticks, lice, flies, mites and true bugs.

**PRACTICAL PARASITOLOGY**

Students will be expected to demonstrate ability to perform thin and thick films. Demonstrate ability to perform staining with Giemsa, Wright's Field's and Leishman's Stains. Demonstrate ability to recognize Plasmodium spp and Trypanosoma spp. in stained smear given a properly working light microscope. Demonstrate ability to prepare wet 'mounts and identify Trophozoites, Cysts, Giardia, Trichomonas, and E. coli.

**MBIO 305: MEDICAL HELMINTHOLOGY****1Credit**

Development of medical helminthology, classification of Helminths general properties of Helminths, Description and identification of the following Helminths Schistosoma spp (masoni,

# PRACTICAL HELMINTHOLOGY

**MBIO 326:APPLIED MEDICAL MICROBIOLOGY 2 Credits****MBIO 317: MEDICAL ENTOMOLOGY 1 Credit**

## CHEMICAL PATHOLOGY

### Year 3/4

## 6Units

**CHEM 309: CLINICAL CHEMISTRY**

### 4 Credits

Request for laboratory investigations, collection and preservation of specimen for investigations; reference range and determination of reference range; Role of clinical chemistry laboratory in clinical diagnosis – emphasis on practical application and general concepts. Anticoagulants/protein precipitation. Changes in blood, urine, CSF and other specimens on keeping. Common biochemical tests and their diagnosis application. Traditional and S.I Units; homeostasis in clinical chemistry. Acid –base balance; Definition and causes of hypernatraemia and hyponatraemia; Definition and causes of Hyperkalaemia and Hypokalaemia. Investigation of water and electrolyte imbalance, calcium and phosphate disorders; parathyroid hormone, calcitonin and cholecalciferol. Definition and causes of hyper and hypocalcaemia. Definition and causes of rickets, osteomalacia and osteoporosis. Blood glucose homeostasis; glucose

tolerance tests- performance and interpretation; diabetes mellitus; formation of free fatty acid, ketone bodies and lactate; plasma lipids, cholesterol triglycerides phospholipids and non-esterified fatty acids.

Plasma lipoproteins and causes of hyper and hypolipoproteinaemia. Concept of risk factors for diseases and significance in prevention; plasma protein – reference values, separation of fractions and variations in health and disease. Paraproteinaemias; Bence-jones proteinuria and significance; Plasma enzymes – Transaminases, alkaline and acid phosphatases, creatine kinase, lactic dehydrogenases and their uses in diagnosis and management of diseases; Definition, causes and consequence of some common inborn errors of metabolism; Galactosaemia, lactose intolerance, albinism, amino aciduria, phenylketonuria, definitions, causes and consequence of Azotemia, uraemia, Creatinine clearance; Tests of hepatic function; jaundice; hepatocellular, haemolytic and obstructive. Functions of the hypothalamus and anterior pituitary. Thyroid functions and investigation of thyroid disorders. Assessment of gonadal function in men and women; Diagnosis of pregnancy, assessment of fetal and placental integrity; Biochemical diagnosis of cancer. Tests of gastrointestinal functions. ***Genetics, Paediatrics, Tumor Marker, Uric Acid Metabolism***

## **CHEM 316: CHEMICAL PATHOLOGY PRACTICAL/LABORATORY ANALYSIS**

### **2 Credits**

Demonstrations: Specimen collection – different types of samples, tubes, sample identification, separation of plasma or serum, collection and preservation of urine specimens. Determination of blood gases and blood PH. Determination of glucose. Glucose estimation in blood by the ferricyanide reduction method (a non-specific method) and strip test for glucose in blood (semi quantitative method). Plotting of oral glucose tolerance test curves for a normal patient and a diabetic patient. ***Multisticks are recommended for this aspects***

Urinalysis: determination of urine specific gravity osmolality and qualitative tests for protein, glucose and reducing substances, ketones, bilirubin, urobilinogen and blood. Haemoglobin and haemoglobin derivatives in urine. (Spectroscopy of haemoglobin and its derivatives in blood. Non-invasive modern methods of monitoring hyperbilirubinaemia such as cutaneous bilirubinometry. Estimation of blood gases, including use of pulse oximeter. Occult blood in feces. Different methods of protein estimation; Electrophoresis of plasma proteins, haemoglobins and isoenzymes). ***The procedures enclosed are to be demonstrated in the main Laboratory for Medical Students.***

Demonstration: Determination of serum enzymes, Radioimmunoassay of hormones in blood; estimation of 17-oxosteroid in urine, biochemical analysis of cerebrospinal fluid (CSF); Methods of vitamin analysis in blood, estimation of immunoglobulins and its derivatives in blood. Non-invasive modern methods of monitoring hyperbilirubinemia such as cutaneous bilirubinometry. Estimation of blood gases, including use of pulse oximeter. Occult blood in feces: Different methods of protein estimation; Electrophoresis of plasma proteins, haemoglobins and isoenzymes. Demonstration: column chromatography, paper and thin layer chromatography of amino acids in urine. Demonstration: determination of serum enzymes; Radioimmunoassay of hormones in blood, estimation of 17 – oxosteroid in urine, biochemical analysis of cerebrospinal fluid (CSF), methods of vitamin analysis in blood, estimation of immunoglobulin. Agglutination/Agglutination inhibition tests; immunoelectrophoresis and gel immunodiffusion technique. Rosette tests for cellular immunity appraisal and exercise interpretation of

laboratory results. *Instruments for these should be bought for main Laboratory and used by the students when necessary.*

Sources of errors in laboratory measurements; fundamentals in the interpretation of laboratory results; the concept of reference values in clinical biochemistry; quality assurance in laboratory practice; urinalysis in clinical diagnosis; tolerance tests and clearance tests in chemical pathology. *These topics should not only for practical classes but also for tutorials and lectures.*

## **HEMA 301: GENERAL HAEMATOLOGY AND BLOOD TRANSFUSION 2**

### **Credits**

Biology and Blood Cells (including development and physiology of haemopoietic cell). Genetic control of Hemoglobin synthesis, abnormal Hemoglobin structure and function. Clinical syndromes associated with abnormal haemoglobins. Genetic counselling. Antenatal diagnosis of haemoglobinopathies.

Anaemias: Definitions and classification of anaemic. Clinical aspects of anaemias, diagnosis of anaemias, anaemias of infection, deficiency anaemia, haemolytic anaemias and anaemias associated with systemic diseases.

Leukaemias: Definition and classification, acute and chronic leukaemias, diagnosis and management.

Haematological Solid Tumors: Hodgkins lymphoma, Non-Hodgkin's lymphoma, Burkitts lymphoma, definition, presentation, diagnosis and management.

Monoclonal Gammopathies, e.g. Myelomatosis, Waldstrom's disease.

Platelets: Inherited and acquired disorders including purpura, thrombosis etc

Blood groups: Red cell antigens and antibodies, and their interaction, presentation of red blood cells, indications for blood transfusion and management of blood transfusion reactions. Rhesus incompatibility, Haemolytic diseases of newborn, blood transfusion and HIV.

Practical Haematology

Principles of haemoglobin and haematocrit estimation. Blood films and staining principles of WBC and platelet counts. Film of SS and SC Patients. Film of iron-deficiency anaemia. E.S.R estimation. Tests for thrombin time, PT, PTTK estimation of fibrin degradation products. Hemoglobin electrophoresis and sickling tests.

## **IMMN 301: BASIC IMMUNOLOGY 2 Credits**

Innate Immunity – factors affecting E.G. age. Species anatomical factors (skin, membranes) etc. Nutrition, hormones, acquired immune-active and passive. Factors affecting acquired immunity, antigens and their determinants, lymphoproliferative organs and their function in the immune responses, structure and functions of immunoglobulin, biosynthesis of immunoglobulin, the thymus and its role in the immune response, deficiencies in cell Mediated immunity including immunodeficiency states e.g. HIV, vaccine research prospects. Immunoglobulinopathies. Nature and consequences of antigen/antibody reactions, principles of fractionation procedure. Pre and post screening counselling. Hypersensitivity – immediate and delayed anaphylaxis, immune, tolerance. Tissue and organ transplantation. Complements and major histocompatibility (HLA) system, immunosuppression, malnutrition and immunity. Immunity and bacterial infections. Immunity and viral infection. Immunity and protozoal and helminth infestations. Immunity and fungal infections. Vaccination and immunization. Autoimmunity, host preservation of self (Host surveillance). Examples of autoimmune diseases, possible mechanisms involved in

Pathogenesis. Immunohaematology – ABO system, Rhesus incompatibility, Immunity and malignancies, tumor antigens.

**PATH 301: GENERAL PATHOLOGY 3 Credits**

Introduction – Ancient traditional and modern concepts of disease and their causes. The normal cell and cellular basis of disease. Tissues and cellular injury. Reaction to cellular injury-inflammation. Healing and repair. Disturbances of cell growth-cellular adaptation and neoplasia. Cystogenetics and genetic disorders. Pigmentary disturbances. Calcification and amyloidosis. Disorders of nutrition.

**PATH 302: SYSTEMIC PATHOLOGY 3 Credits**

In this part of the course the principles of general pathology shall be applied to individual organs. Emphasis shall be on those diseases commonly encountered or peculiar to the environment. Thus in addition to global disease adequately covered in all standard text books of pathology, the following should be specially emphasized.

Cardiovascular system: Hypertensive heart disease and heart failure, cardiomyopathies-congestive; restrictive (EMF)

**RESPIRATORY:** Tuberculosis. Renal: Nephropathy associated with malaria and other infestations and infections. Lympho-reticular: Malignant Lymphomas (Non-Hodgkins and Hodgkins. Lymphoma: Burkitt) Idiopathic Tropical Splenomegaly Syndrome (ITSS). Gastrointestinal tract: Cancers of the mouth, oesophagus and stomach, intestinal lymphomas. Liver: Hepatitides – Hepatitis viruses, yellow fever, Lassa fever, cirrhosis, primary liver cell carcinoma. Nervous system: infections-meningitis, trypanosomiasis. Female reproductive tract: Pelvic inflammatory disease. Cancer-cervical, trophoblastic, ovarian. Ophthalmic: inflammatory disease – pyogenic trachoma, onchocerciasis. Nutritional: protein- calorie malnutrition: Skin: Inflammatory –Leprosy. Tumors- Kaposi Sarcoma. Bones: Tumors of the Jaw.

**PATH 303: HISTOPATHOLOGY PRACTICALS 3 Credits**

Practical in Histopathology and Morbid Anatomy

Attendance at post mortem sessions shall be compulsory. Each student shall attend a minimum of twenty autopsies, assist in five and write up five. At the end of the post-mortem clerking, each student should know how a coroner's autopsy differs from the routine hospital autopsy. Practical in histopathology shall be organized to illustrate the applications of theoretical knowledge to histopathological diagnosis. At the end of the course the student shall be able to recognize tissue changes that denote acute and chronic inflammation, granulomatous inflammation, benign and malignant tumors. Exercises in experimental pathology should ideally form part of the practical in histopathology.

**PATH 304: FORENSIC MEDICINE 2 Credits**  
**INTRODUCTION**

Forensic or legal medicine is that teaches the laws concerning medical practice. In Nigeria, any registered medical practitioner is liable to be called upon without notice to take decision of grave importance within the province of legal medicine. For this and the additional fact that no matter the branch of medicine or surgery the graduate enters, he or she will always have to face

medicolegal problems, it is imperative that due weight be attached to the subject in the undergraduate curriculum. It is recommended that undergraduate receive a minimum of 60 hours medico legal instruction during their clinical years. This should consist of 30-40 lectures and demonstration including attendance at coroner's autopsies.

### **COURSE DESCRIPTIONS**

At the completion of the course in forensic medicine the student

- (a) should know the legal responsibility of correct death certification
- (b) should know the deaths that should be referred to the coroner
- (c) should be able to write medico legal reports for the coroner and courts that can be understood by non-medical people and are devoid of ambiguities
- (d) should know these responsibility under the various drugs and human tissues acts
- (e) should be able to conduct a medico legal examination in cases of alleged assaults and of sexual offences
- (f) should understand confidentiality and medical ethics

### **3.6 PHARMACOLOGY (PHAR) YEAR 3/4 10 Credits Lecture 5 Credits Practical**

PHAR 301	General Pharmacology	3 Credits
PHAR 302	Systemic Pharmacology	3 Credits
PHAR 303	Antimicrobial, antifungal, antiviral and antiprotozoal	3 Credits
PHAR 304	Drugs acting on the CNS and Mental Disorders	3 Credits
PHAR 305	Special topics	3 Credits

**TOTAL**

**15 Credits**

Aims and objectives of Pharmacology course

- a. To introduce Medical students to the principles of drug treatment in disease states
- b. To impart knowledge on the understanding of properties of drugs and the mechanisms by which they produce their affects in diseased conditions
- c. To enable Medical students at the end of the course to be Competent to select drug(s) rationally for any ailment diagnosed on a scientific basis

### **PHAR 301: GENERAL PHARMACOLOGY 3 Credits**

Scope of Pharmacology: origin and sources of drugs, routes of administration of drugs, Pharmacokinetics, absorption of drugs, excretion of drugs, biotransformation of drugs, structure activity relationship, man Compliance, individual variations, presence of other drug, genetic effects, tolerance and tachphamlaxis, effects of diseases, drug toxicity, adverse drug reactions, drug dependence, drug interaction.

### **PHAR 302: SYSTEMIC PHARMACOLOGY 3 Credits**

Neurohumoral Tansmission:Drugs on Neuroeffector Sites: Autopharmacoids

Review of neurohumoral transmission, transmission, transmitters in the central and peripheral nervous system, cholinergic and adrenergic receptors, cholinergic stimulants and blocking agents; autocoids – histamine – histamine receptors and histamine antagonists, 5 hydroxytryptamine, rein – anagiotensin, kinius, plasma kinin, BRADYykinin-kallikrin, substance P, Prostaglandins, Leukotrienes, cyclic nucleotides and other MEDIators.

Drugs acting on the Alimentary: Vomiting – antiemetics, constipation, purgatives, antacids, anticholinergics, H<sub>2</sub> receptor antagonists – ulcer healing drugs, gastrointestinal hormones, pentagastrin – secretion, non-specific, antidiarrhoeal drugs, lactose, lipid disorders, cholestyramine, pancreatin cholecystokinin

Drugs acting on the respiratory system: Oxygen therapies, bronchodilator drugs, asthma, status asthmaticus, cough suppressants, mucolytic agents, and respiratory stimulants.

Drugs acting on blood and blood-forming organs, anaemia, iron, deficiency and other hypochromic anaemias, megaloblastic anaemias, iron cobalamins, folates, anticoagulants, heparin, coumarin, indandiones, fibrinolysis, fibrinolysine, thrombus, platelet aggregation inhibitors, blood lipid lowering drugs.

Drugs acting on the cardiovascular system: heart failure and its drug management, anti-angina drugs, ischaemic heart disease and its drug management, antiarrhythmic drugs, hypertension and its drug management, vasodilators.

Drugs acting on the urinary system: diuretics, alteration of urinary PH, urinary tract infections, renal failure, immunity, immune-suppressive agents.

### **PHAR 303: ANTIMICROBIAL, ANTIFUNGAL AND ANTIVIRAL DRUGS & DRUGS AGAINST HUMAN PROTOZOA DISEASE    3 Credits**

Microbes in man, mode of action of antimicrobial drugs, sulfonamides, penicillin, cephalosporin, amnoglycoside, lincomycins, peptide antibiotics, drugs treatment of tuberculosis, miscellaneous, antibiotics, vancomycin, spectinomycin, fusidic acid, other synthetic, antimicrobial drugs, nalidixic acid, nitrofurantoin, drug treatment of leprosy, antifungal agents, antiviral agents, methisazone, idoxuridine, cytarabine, adenine arabinoside, interferons, humoral immunoglobulin, malaria, trypanosomiasis, leishmaniasis, amoebiasis, amoebic liver abscess, giardiasis, trichomoniasis, ankylostomiasis, ascariasis, trichiasis, strongyloidiasis, enterobiasis, trichinosis, filariasis, loasis, onchocerciasis, dracontiasis, schistosomiasis, fasciolopsiasis, clonorchiasis, paragonimiasis, taeniasis, cystecercosis, hydatid disease, dyphllothrasis, tape worm

Anti-retroviral therapy, reverse transcriptase inhibitors (RTI) including nucleoside and non-nucleoside reverse transcriptase inhibitors (NNRTI), nucleoside analogues, protease inhibitors (PI) and hydroxyl urea with special emphasis on retroviral therapy in pregnancy, labour and the newborn.

### **PHAR 304: DRUG ACTING ON THE CENTRAL NERVOUS SYSTEM    3 Credits**

Special situations of drug action entry of drugs in C.N.S. non-narcotic analgesics, opiate receptors, narcotic analgesics, narcotic antagonist and partial agonists, antipyretic agents, sleep, barbiturates and non-barbiturate agents, alcohols, review of general and local anaesthetic drugs, anaesthesia in persons already taking drugs, neuromuscular blocking agents, central nervous system stimulants, anticonvulsant drugs, epilepsies, principles of antiepileptic treatment, review of different groups of antiepileptic drugs, status epilepticus. Epilepsy and special situations, pregnancy, contraception, anaesthesia, surgery, miscellaneous anticonvulsant drugs. Treatment of Parkinsonism, levodopa, decarboxylase inhibitors, bromocriptine, amantidine, anticholinergics, anti-histaminics, phenothiazines. Drug therapy of spasticity, dantrolene, baclofen, interneuronal blockers. Drugs in myaesthesia gravis.



Drugs in mental disorders. Psychoses, depression, anxiety, neuroleptics- phenothiazines, butyrophenones, dihydroindoles, dibenzodiazepines, rauwolfia, alkaloids, anxiolytics, benzodiazepines, antidepressants with sedative properties, thymoleptics, tricyclics, Cyclic, monoamine oxidase inhibitors (hydrazines and non-hydrazines) amino acid precursors of transmitter amines, amines, tetrahydroisoquinoline derivatives, lithium, psychostimulants, psychodysleptics.

### **PHAR 305: SPECIAL TOPICS 3 Credits**

Drug treatment of joint diseases: inflammatory arthropathy and degenerative joint diseases, metabolic disposition arthropathy, analgesics, non-steroidal anti-inflammatory drugs (NSAID) corticosteroids long-term: antirheumatic agents, gold salts, D-penicillamine, chloroquine, immunosuppressive agents, levamisole, gout, colchicines and dexamethasone, phenylbutazone, indomethacin, probenecid, ethecrisic acid, allopurinol

Pharmacology of Endocrine System: Mechanism of action of hormones, CNS, hypothalamus – adenohypophysis – endocrine glands, anterior and posterior pituitary hormones, thyroid hormones and antithyroid drugs, parathyroid hormones, calcitonin, diabetes mellitus, insulin, oral hypoglycaemics, adrenocortical hormones, glucocorticoids, mineralocorticoids, hyperaldosteronism, sex – hormones, oestrogens, androgens, progestogens, antagonists to hormones, Pharmacologic methods of family planning

Drugs in Obstetrics and Gynaecology: Drugs in pregnancy, drugs affecting uterine motility, ergotamine, oxytocin, prostaglandins.

Drugs acting on the skin, general aspects of the dermal Pharmacokinetics, forms of topical application and systemic administration in dermal conditions, topical antifungal and steroid preparations and adverse effects.

Chemotherapy of Malignant disease

Practical classes/demonstration

A reasonable number of practical classes and demonstration should be organized to make the students understand the nature of drug action.

### **4.0 CLINICAL COURSES YEAR 5/6**

Preamble – the clinical disciplines in the Medical curriculum depend for their success on a sound preclinical footing. It is therefore assumed that students would have been thoroughly groomed in the basic Medical sciences before embarking on the clinical postings. This assumes that only candidates who have unequivocally satisfied the examiners in the first professional examination would proceed to the clinical posting.

Introduction to Clinical Medicine MEDI 301, 302	2 Credits
Medicine Phase I, MEDI 401 – 407	7 Credits
Medicine Phase II MEDI 508 - 513	14 Credits
<b>TOTAL</b>	<b>23 Credits</b>

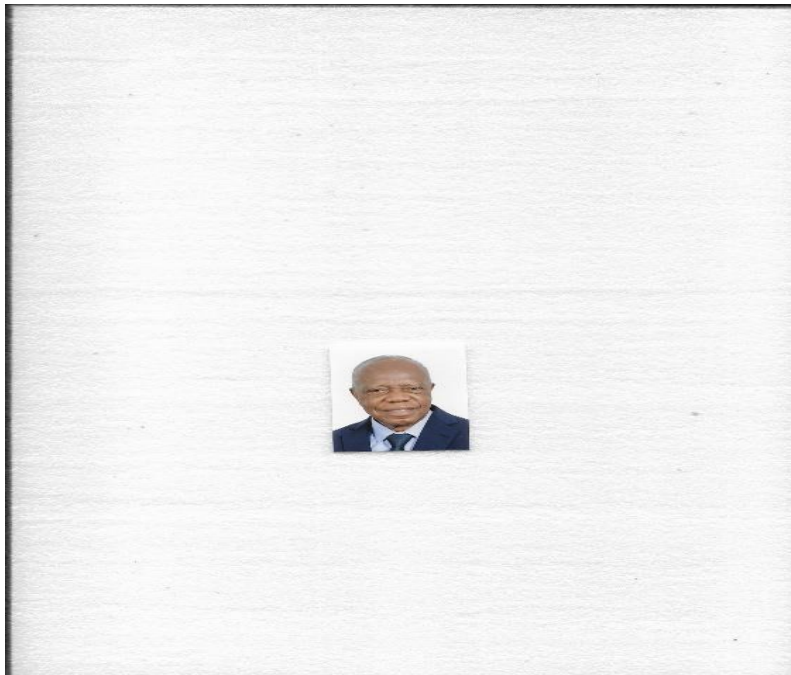
### **YEAR 3 INTRODUCTION TO CLINICAL MEDICINE 2 CREDITS**

MEDI 301	Introduction to Clinical Medicine I	1 Credit
MEDI 302	Introduction to clinical Medicine II	1 Credit

<b>YEAR 4</b>	<b>CLINICAL MEDICINE      PHASE I</b>	<b>7 CREDITS</b>
MEDI 401	Cardiology I	1 Credit
MEDI 402	Respiratory Medicine I	1 Credit
MEDI 403	Gastroenterology I	1 Credit
MEDI 404	Haematology (Clinical)	1 Credit
MEDI 405	Metabolic and Endocrine Medicine	1 Credit
MEDI 406	Neurology 1	1 Credit
MEDI 407	Nephrology 1	1 Credit

<b>YEAR 5</b>	<b>CLINICAL MEDICINE      PHASE II</b>	<b>16 CREDITS</b>
MEDI 508	Cardiology II	1 Credit
MEDI 509	Respiratory Medicine II	1 Credit
MEDI 511	Gastroenterology II	1 Credit
MEDI 512	Nephrology II	1 Credit
MEDI 513	Rheumatology	1 Credit
MEDI 514	Clinical Immunology	1 Credit
MEDI 515	Tropical Medicine and Infection	2 Credits
MEDI 516	Special Topics & Neurology II	2 Credits
MEDI 517	Psychiatry	2 Credits
MEDI 518	Dermatovenereology	1 Credit
MEDI 521	Medical Ethics & Jurisprudence	1 Credit
MEDI 522	Traditional Medicine	1 Credit
MEDI 523	Rural Posting (With Community Medicine)	1 Credit

## **SCHOOL OF CLINICAL SCIENCES**



***Professor James Kweku RENNER***

***DEAN***

### **YEAR 2: INTRODUCTION TO CLINICAL MEDICINE**

**2 Credits**

#### **MEDI 301: INTRODUCTION TO CLINICAL MEDICINE I      1 Credit**

Course of lecture on basic clinical skills and simple clinical disorders (5 hours a week). Demonstration on how to elicit basic physical signs. Emphasis on technique and general approach to the patient. Tutorials on elementary clinical medicine with emphasis on applied basic medical sciences, (including basic principles of Radiology).

#### **MEDI 302: INTRODUCTION TO CLINICAL MEDICINE II      1 Credit**

Introduction to various health workers and their various functions, with clear emphasis on where the medical student fits in. Introduction to basic side-room tests on urine, stool, sputum and blood. Basic therapeutic principles as applied to common disorders.

**YEAR 4: MEDICINE PHASE 1**

**7 Credits**

Students are by now expected to be well versed in basic clinical skills. Thus this period (referred to sometimes as Junior Medical Posting) should be devoted to in- depth lectures, ward (bed-side) teaching, and tutorials. Students should be able to clerk patients fully. Suggested subjects are to be covered by lectures/tutorials.

**MEDI 401: CARDIOLOGY 1**

**1 Credit**

Relatively basic cardiovascular diseases: heart failure (diagnosis and management), rheumatic heart disease, infective endocarditis, blood pressure (mechanisms, treatment, prevention), pericarditis (constrictive pericarditis), pericardial effusion, cardiac tamponade, disorders of cardiac rhythm – introduction to ECG.

**MEDI 402: RESPIRATORY MEDICINE 1**

**1 Credit**

Pneumonia (pneumococcal, staphylococcal, H. Influenzae), tuberculosis, airways disease (asthma, alveolitis etc.), some common complications of chest diseases e.g. pleural effusion, emphysema, emphysema, pulmonary fibrosis, pleurisy etc.

**MEDI 403: GASTROENTEROLOGY 1**

**1 Credit**

Oesophagitis, gastro-enteritis (acute chronic), peptic ulcer disease (with complications), cholecystitis, pancreatitis (acute and chronic), jaundice (causes, management, types of), hepatitis: acute infective (type A), chronic (type B), non A, masses, gastrointestinal haemorrhage, abdominal pain, malabsorption syndromes and GIT infections e.g. dysentery (see under infections).

**MEDI 404: HAEMATOLOGY (CLINICAL)**

**1 Credit**

Anaemia (all types, causes, investigations, management), splenomegaly (causes e.g. leukaemias TSS etc.), the leukaemias, Hodgkins disease, myeloproliferative disorders, haemoglobinopathies.

**MEDI 405: METABOLIC AND ENDOCRINE MEDICINE**

**1 Credit**

Hypothalamio – pituitary – adrenal – adrenal- thyroid axis, disorders of the hypothalamus, disorders of the pituitary gland, disorders of the thyroid, disorders of calcium metabolism, fluid and electrolyte balance, diabetes mellitus, inborn errors of metabolism, gout and Wilson's disease.

**MEDI 406: NEUROLOGY 1**

**1 Credit**

Basic concepts, coma (causes, management), meningitis (CSM, H. influenza, Tuberculosis, pneumococcal), cerebrovascular accident (including stroke), the cranial nerves and cord Compression.

**MEDI 407: NEPHROLOGY 1 (GENITOURINARY MEDICINE)**

**1 Credit**

Urinary tract infection, pyelonephritis, glomerulonephritis, acute and chronic renal failure, the nephritic syndrome and infections e.g. schistosomiasis (see under infections)

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**YEAR 5: CLINICAL MEDICINES PHASE II**

**14 Credits**

The student has by now acquired a fair amount of basic knowledge of most of the Common systemic disorders. The objective of this posting is to consolidate his/her knowledge. Accordingly emphasis should be directed towards encouraging him to go into greater details and to acquire more clinical skills. She/he should also be able to discuss his/her Patients intelligently. Additional topics to be covered during this posting should include:

**MEDI 508: CARDIOLOGY 11**

**1 Credit**

The peculiar added heart sounds such as: Murmurs of valvular heart disease; systolic murmurs (AI, AS) etc. Austin-flint murmur, machinery murmur; pericardial friction rub; opening snap of MS etc., the more subtle signs of subacute infective endocarditis, petechial splinter haemorrhages, Osler's nodes, clubbing, Roth's spots etc., the cardiomyopathies (congested, including peripartum cardiac failure, restrictive endomyocardial fibrosis, obstructive).

**MEDI 509: RESPIRATORY SYSTEM 11**

**1 Credit**

Carcinoma of the lungs, cryptogenic fibrosing alveolitis, the pneumoconioses.

**MEDI 511: GASTROENTEROLOGY 11**

**1 Credit**

Differential diagnosis of peptic ulcer, disease, cholecystitis and pancreatitis leading to a consideration of diagnostic procedure of help, e.g. laboratory tests, cholecystogram, endoscopic retrograde cholangiopancreatography (ERCP) chronic active hepatitis, primary biliary cirrhosis, Crohn's disease and ulcerative colitis.

**MEDI 512: NEPHROLOGY 11**

**1 Credit**

Immune -complex-mediated kidney disease (e.g. quartan malaria nephropathy), obstructive uropathy.

**MEDI 513: RHEUMATOLOGY**

**1 Credit**

The sero-negative arthritides the sero-positive arthritides, rheumatoid arthritis, Sjogren's syndrome ankylosing spondylitis, enteropathic arthropathy, osteoarthritis (degenerative joint disease). The connective tissue disorders: systemic lupus erythematosus, systemic sclerosis (scleroderma), mixed connective tissue disease, dermatomyositis/polymyositis, giant cell arteritis, lessons on rehabilitation.

**MEDI 514: CLINICAL IMMUNOLOGY**

**1 Credit**

Students would have been exposed to basic immunology and immunopathology during laboratory Medicine postings. The objective here is therefore to expose them to clinical aspects of immunology. Topics to be covered: The host response to infection, immunology of infections, schistosomiasis, hepatosplenic hyperactive malarial splenomegaly (previously known as tropical splenomegaly syndrome, TSS) quartan malaria nephropathy (QMN), hepatitis, virus infections, tumour and transplant immunology, the HLA system, tumour immunology, autoimmunity and autoimmune disease, consolidation of basic immunologic techniques in diagnosis of disease e.g. widal, bacterial antigens, Hepatitis B surface antigen (HBS Ag), alpha-fetoprotein, cellulose acetate electrophoresis etc introduction to monoclonal antibodies and hybridoma technology.

**MEDI 515: TROPICAL MEDICINE AND INFECTIONS****2 Credits**

Pyrexia of unknown origin (PUO), Malaria, Pneumococcal infection, Streptococcal infections, H, influenza infection, Meningococcal infection, Typhoid fever, Cholera, Tetanus, Tuberculosis, Leprosy (see under dermatology), Spirochaete infections, Fungal infection, Amoebiasis, Schistosomiasis, Trypanosomiasis, Leishmaniasis, Filariasis, Guinea Worm infestation, Rabies, Septicemia.

**MEDI 516: SPECIAL TOPICS AND NEUROLOGY 11****2 Credits**

This is the final Medicine posting. The objective should be to consolidate what the Medicine and psychiatry student had already learnt in the previous postings, but additional topics should also be covered. Neurology Autonomic neuropathy, Peripheral neuropathy, Viral infections of CNS, Cerebral abscess, Demyelinating disease, Epilepsy, Cord Compression, Brain tumours, subacute combined degeneration etc.

HIV-AIDS including epidemiology, Pathogenesis, features-primary, asymptomatic or symptomatic infections; diagnosis, opportunistic infections such as tuberculosis and candidiasis, prevention, management and control.

Sexually Transmitted Infections: include epidemiology, Pathogenesis, features, diagnosis, prevention, treatment and control of- gonorrhoea, chancroid, Chlamydia, syphilis, trichomonas, gardnerella, candida, herpes genitalis, human papilloma virus, pelvic inflammatory disease and pubic lice. Syndromic management of STIs contact management. Etiologic management of STIs.

**MEDI 517: PSYCHIATRY****2 Credits****COURSE OBJECTIVES INCLUDE:**

- a) To make the student aware of the possible interplay between biological and psychosocial factors in the aetiology, precipitation and maintenance of human illness as well as the effect of other factors particularly cultural attitudes, norms, and belief systems.
- b) To let the student acquire the technique of interviewing patients and grasp the fundamental ideas of psychiatric examination.
- c) To help the student recognize the importance of differential diagnosis in the practice of psychiatry.
- d) To review the various aspects of psychiatry clearly but concisely with emphasis on the current state of the art.
- e) To introduce the student to the international nomenclature of psychiatry as contained in Chapter V of the International Classification of Diseases (I.C.D.); using whichever revision is current.

**GENERAL OUTLINE OF COURSE CONTENT**

Historical and Theoretical Trends in Psychiatry Contribution of the following:

Hippocrates; Paracelsus, Philippe, Pinal Rush, Karl Wernicke, Emil Kraepelin, Eugen Bleuler, Anton Nesser, Jean Martin Charcot, Sigmund Freud, Pierre Janet, Alfred Adler, Carl G. Jung, Martin Roth, Adeoye Lambo, Amechi Anumonye.

Biopsychosocial Approach to Human Medicine: Summary of general living systems, theory and its application to psychiatry and general Medicine, maintenance of steady states, adjustment processes. Biopsychosocial adaptation- predisposing and precipitating factors for mental disorders.

Biological Foundations for Human Behaviour (Review) Review of the anatomy and physiology of the CNS, the Limbic system and the emotions. Neurochemistry and Behaviour. Biogenic amines. Neurotransmitters, polypeptides, physiology of sleep. Genetics and psychiatry. Biological rhythms in psychiatry. (Mostly dealt with under anatomy). Aspects of clinical neurology and neuropathology, aphasia, temporal lobe epilepsy, psychiatric sequelae of head injury. Degenerative conditions.

Review of Life Cycle and Personality Development: Structure of personality. Dynamic concepts. Infancy, Childhood, Adolescence, Adulthood and Maturity.

Adaptive Processes and Mental Mechanism: Need for adaptive mechanisms, Language and Communication. Perception and thought, conceptual development. Uses of fantasy. Mental mechanisms- Anxiety, depression, identification, reaction, formation, compensation, rationalization, substitution, symbolization, fixation, dissociation, projection, sublimation, idealization, aggression, repression, regression (Basic concepts of all these include)

Psychopathology: psychiatric symptoms as psychological reactions. Disturbances of activity. Disorders of perception. Disorders of thinking. Disturbances of affect and orientation.

Sociology and Psychiatry Introduction. Trends in Sociology. Sociological perspectives. Basic formulations. Social structure, Socialization and Personality change Social Control and deviance. Social competence. Social (community) responses to mental disorder. Use of treatment facilities – conventional and traditional (i.e. traditional healers and syncretic religious groups) Sociocultural correlates of mental disorder. Social class and mental disorder. Marital status and mental disorder. Life stress and mental disorder. Family and psychiatry.

Psychiatric Examination (Introduction) Chief Complaints. History of present illness. Family history, past medical and psychiatric history. Mental state examination. Physical examination. Laboratory studies. Items of phenomenology. Diagnostic formulation and recommendations.

Nomenclature and Classification of Mental Disorders: Mental disorders of the international classification of diseases (ICD) – 9. The current Diagnostic and Statistical Manual (DSM-IVTR,2000) of the American Psychiatric Association.

Organic Mental Disorders This include: Delirium and Dementia

Substance Abuse Disorders: Primary degenerative disorders (Dementias) as due to senility. Substance-induced dementias. Alcohol, barbiturates, opioids amphetamines. Phencyclidine. Cannabis, hallucinogens. Acute brain syndromes (delirium). Diagnosis and treatment, Social implications. Psychological theories of addiction. Cocaine, Heroin. Psychiatric sequelae of head injury.

Schizophrenic Disorders Biological substrates of schizophrenic disorders. Phenomenology and diagnosis. Typology. Methods of treatment. Paranoid Disorders Paranoid disorder. Paraphrenia. Differential diagnosis management.

Affective Disorders Biological substrates of affective disorders; Biochemistry. Classification and diagnosis. Management of affective disorders- Mania, hypomania, endogenous depression, manic depressive psychosis. Special problems of treatment. Special features of presentation and diagnosis of depressive illness in the African. Somatization of symptoms and masked depression. Suicide and attempted suicide- epidemiology and psychosocial implication.

Anxiety Disorder Phobic disorders (phobic anxiety) Generalized anxiety, agoraphobia with panic attacks. Obsessive Compulsive disorder, Neurotic (reactive) depression. Hypochondriasis. Diagnosis and treatment of anxiety disorders.

Dissociative and Somatoform disorders Hysterical neurosis (conversion disorders). Somatization disorder psychogenic amnesia and fugue. Multiple personality depersonalization disorder. Hysterical dissociation.

Sexual Education: Common sexual behaviours, masturbation, sexual intercourse- penile/vaginal sex, oral sex (fellatio- when performed on the man and cunnilingus – when performed on the woman). Anal sex. Anal/Rectal and prostate stimulation.

Psychosexual Disorders Gender identity disorders. Frigidity. Homosexuality, Lesbianism, Bisexuality and Heterosexuality, Trans sexuality, Paraphilias, Fetshism. Transvestism, Zoophilia. Paedophilia, Sadomasochism. Indecent exposure and exhibitionism. Erectile dysfunction, rape, defilement and incest. Personality disorders. Pederasty (sodomy).

Psycho physiological Disorders Peptic Ulcer. Essential hypertension. Bronchial asthma. Graves disease. Rheumatoid arthritis. Ulcerative colitis. Psychobiological contribution to human disease.

Child and Adolescent Psychiatry Examination of the Child. Adjustment reactions of infancy. Adjustment reactions of childhood. Hyperkinetic reaction. Adjustment problems of adolescence. Conduct disorders (Delinquency). Neurosis. Psychosis. Infantile autism, Enuresis. Encopresis, Sleep walking. Developmental disorders. The brain fog Syndrome. Problem of privileged Youths

Psychological Testing Usefulness and type of tests. Indications and contraindications. Descriptive tests. Projective tests. Personality tests.

Social and Community Psychiatry Definitions and interrelationships. History. Legislation. Central concepts. Planning social Psychiatry. Community mental health systems. Central concepts. Working with the Community. Planning mental illness in pregnancy and the puerperium.

Psycho-Pharmacology Basic science of psycho-Pharmacology, Antipsychotic agents antidepressant agents, Ant anxiety agents, Side effects of psychoactive drugs, Lithium salts.

Electro-Convulsive Therapy and other Physical Therapies E. C. T. Historical development indications. Mechanisms of action; methods of application. Psychosurgery (Prefrontal



Lobectomy) Abreaction. Modified insulin Coma, narcosis. Aversion therapy (Chemical and Electrical)

Psychotherapy Individual, group psychotherapy, Psychoanalysis. Psychodrama. Dynamic Psychotherapy, Hypnosis. Relaxation training, Biofeedback, Behaviour therapy.

Forensic Psychiatry The psychiatrist in court. Privilege Communication. Involuntary Commitments. Hospitalization and law. Competency and Civil Rights.

Habeas Corpus. Rights to treatment. Malpractice. Criminal responsibility, Competence to stand trial. The M'Naghten Rule. Asylum or prison; mental Hospital.

Research in Psychiatry Method in behavioural research. Research tools. Current Research Topic. Biostatistics.

### **MEDI 518: DERMATO-VENERELOGY 1 Credit**

Objectives: At the end of their training medical students should;

- a) Know the basic embryology, anatomy, physiology and functions of the skin and its appendages;
- b) Know the normal and abnormal flora of the skin and the mucosa;
- c) Understand the pharmacokinetics and absorption of drugs through the skin and the mucosa;
- d) Understand the rationale for topical, systemic, physical, surgical and psychotherapy;

Be acquainted with and know how to use drugs, commonly used in common skin conditions.

- e) Furthermore he/she should be able to diagnose and, to where possible manage effectively the following general dermatological conditions: Tinea capitis, corporis, pedis cruris, Pityriasis versicolor, Pityriasis Rosea, Superficial candidiasis, Impetigo, furuncle, carbuncle, folliculitis, erysipelas, Sarcopsis barbae, Scabies, pediculosis, uncomplicated leg ulcers, Buruli Ulcer, Contact eczema/dermatitis, microbial eczema, irritant dermatitis, dyshidrotic eczema atopic eczema, seborrheic eczema, acne vulgaris, Erythema multiformis, Exanthema, erythematosis, Quincke's oedema urticaria, prurigo simplex, Neurodermatitis vitiligo, Urticaria, Pediculosis pubis, capitis and corporis

Lichen planus, Psoriasis, Measles, Chicken pox, viral warts, molluscum contagiosa, herpes simplex, and herpes zoster.

- f) He/She should be able to recognize, diagnose and treat the following commonly encountered dermatological problems in the tropics: Leprosy and reactions, Onchocerciasis, Filariasis, Dracunculiasis, Deep fungal infections of the skin, Nutritional disorders of the skin.

- g) He/She should be able to diagnose the following conditions: Contact dermatitis, Drug reaction, Inhalative and nutritive allergic reactions, connective tissue diseases, SLE, scleroderma.

- h) Be able to recognize, diagnose correctly and treat the following common sexually transmitted diseases: Gonorrhoea and non gonococcal urethritis, Uncomplicated syphilis, Trichomoniasis, Chancroid, Lymphogranuloma Venereum, granuloma Inguinale and Candida vaginalis.

- i) Be able to recognize the relationship between external manifestation and Common internal disorders.

- k) Be able to manage skin disease on Community basis

- l) Be able to recognize its limitations and refer cases promptly to specialist attention with adequate information on Patients.
- m) Be able to recognize and refer promptly clinical manifestations of AIDS
- n) Be able to perform simple dermatological investigations such as: Taking of skin scraping, Staining slide for fungus identification, Planning of scraping and swabs from the skin for culture, Skinsnip for filarial diagnosis, Read slides for fungal infection and other Common parasitic infections of the skin. Take urethral and vaginal swabs correctly for Microscopic and culture examination. Take skin biopsies correctly and preserve for histopathology.
- o) Formal lectures shall be given to students on the following main subjects: Embryology and anatomy of the skin and its appendages. Physiology of the skin, appendages Histochemistry of skin. Superficial and deep fungal infection, bacterial infection of the skin including parasitic infection of the skin. Papulo-squamous skin disease. Connective tissue diseases. Common sebaceous gland diseases, Common non-infectious diseases of the hair, dermatitis, contact eczema toxic dermatitis, dyshidrotic leprosy. Viral infection of the skin, sexually transmitted diseases (including AIDS) pigmentary skin disorders, external manifestation of systemic diseases.

### **MEDI 521: MEDICAL ETHICS AND JURISPRUDENCE 1 Credit**

History and Philosophy of Medical Ethics Case Studies. Presentation of real cases from NMC files. Relationship between Religion and Medical ethics influence of Socio-Cultural values on Medical ethics. Ethical issues involved in Primary Care, Relationship between the doctor and his Patients. Relationship between the doctor and his colleagues. Relationships between the doctor and the Medical team, Business connections and contracts, Nigeria Medical and Dental Council, Medical ethics of the examination and care of Women. Ethical issues involved in contraception, sterilization and infertility. Ethical issues involved in sex change and test tube babies. Elements of informed consent in Medical practice. Elements of informed consent in Research Medical ethics and relation to the dead and the dying.

Guiding Principles on Medical Ethics and human Rights: Including history and philosophy; case studies from files of Medical and Dental Council; relationship between religion, socio-cultural values and Medical ethics.

**Respect for Persons:** Including respect of personal integrity (use of chaperons). Conscientious, moral or religious beliefs of persons; own beliefs; treating Patients as persons not as cases. Extended family; polygamy (polygamy and Polyandry), widow inheritance and structural adjustment programs.

**Health Care of Vulnerable and Disadvantaged Groups:** Including children; adolescents; women; the elderly; refugees; ethnic minorities; asylum seekers; indigenous peoples and immigrants.

**Confidentiality.** Requests by third parties: Including pre-employment Medical reports; court orders to disclose confidential Medical information. Parents Rights to Information; Counselling (Knowledge and Techniques); Informed Consent to Medical Interventions. Medical Emergencies. Ethical Attendance upon persons held in detention. Competence to practice. Relationship with health professional colleagues, other health workers and traditional

healers/birth attendants. Responsibility to the Community. Health promotion and preventive Medicine. Transplantation. Medical Research.

**The Six Human Rights Instruments Related to “The Right to Health”.**

International Convention on Economic, Social and cultural Rights. International Convention on Civil and Political Rights. International convention on the elimination of all forms of racial discrimination. Convention on the elimination of all forms of discrimination against women. Convention against torture and other cruel, inhuman or degrading treatment or punishment. Convention on the rights of the child.

**MEDI 522: TRADITIONAL MEDICINE 1 Credit**

This should embody history of Medicine, including such topics as the traditional barber surgeons. Topics in ethnopharmacy and homeopathy should also be taught here.

**MEDI 523: RURAL POSTING (with Community Medicine) 1 Credit**

Rural care is the back bone of primary health care. It should last a minimum of eight (8) weeks, and relevant departments (Community Medicine, Medicine, Surgery, Paediatrics and Gynaecology) are involved and will be undertaken in a particular LGA away from the teaching hospital selected by the school.

**4.1 RADIOLOGY (RADY) YEAR 6 2 CREDITS**

RADY 601	Radiologic Anatomy I	1 Credit
RADY 602	Tutorials in Radiology	1 Credit

- (a) It is expected that the Medical student should be initiated into the role of radiological imaging during the pre-clinical period as part of the teaching of human anatomy. This helps to correlate cadaveric anatomy in the living i.e. Radiological Anatomy.
- (b) During the Introductory Course at the commencement of the clinical years, students should have lectures on: The principles of X-Ray production and image formation; and an overview to emphasize the usefulness and comprehensive nature of the use of radiology in medicine.

**RADY 601: RADIOLOGIC ANATOMY I 1 Credit**

Normal radiological anatomy of the upper and lower extremities, the thorax, the spine and the pelvic girdle. Appearance of ossification Centers and bone age determination. Radiological anatomy of the skull as seen in the following radiographic projections: Anteroposterior, Lateral, Towne's, Submentovertical (SMV) and Occipitomental.

**RADY 602: TUTORIALS IN RADIOLOGY 1 Credit**

It is expected that by the end of the training, the student should have acquired the ability to approach the reading of a chest X-Ray which is the single most basic principle. He should be able to identify gross changes in the lung fields e.g. pneumonias, collapse, fibrosis canon ball secondaries, pneumothorax, pleural fluid collection, acute pulmonary oedema and the various presentation of tuberculosis; Cardiac contour e.g. right and/or aneurysms etc., rib fractures, rib changes in rickets and soft tissue changes in the chest wall; Identify not only gross fractures but

the not so obvious greensick fractures of childhood which occur most commonly and will come to him as a casually officer; be able to review a plain X-Ray of the abdomen and recognize normal bowel distribution pattern, pneumoperitoneum (in bowel perforation), normal and enlarged liver, spleen and kidney, upper small bowel colonic obstruction, mid-small bowel obstruction, distal small bowel obstruction, distal colonic obstruction, mid-colonic obstruction, proximal colonic obstruction; Identify radio-opaque gall stones or ureteric calculi and bladder stones, parasitic calcifications; recognize degenerative changes in the spine, vertebral collapse, paravertebral abscesses; assess contrast examinations for gross Pathology e.g. barium meal, barium enema, intravenous urography, cholecystography and cholangiography, cystourethrography, arteriography, aortography, hysterosalpingography, the use of ultrasound in radiology, the of Radioisotopes in radiology and radiotherapy in the management of malignant disease.

The student should be taught how to request for radiological investigation and the sequence.

## 4.2 PAEDIATRICS

<b>YEAR 5:</b>	<b>INTRODUCTION TO PAEDIATRICS</b>	<b>1 Credit</b>
PAED 501	Introduction to Paediatrics	1
<b>YEAR 5</b>	<b>PHASE I PAEDIATRICS I</b>	<b>6 Credits</b>
PAED 502	Nutrition, Growth and Development	1
PAED 503	Child Health and Primary Care	1
PAED 504	Cardiovascular and Respiratory	2
PAED 505	Genitourinary and GI Tract	2
<b>YEAR 6</b>	<b>PHASE II PAEDIATRICS II</b>	<b>6 Credits</b>
PAED 506	Endocrine and Metabolic Diseases	1
PAED 507	Diseases of the CNS, Muscles and Bones	1
PAED 508	Diseases of the Blood	1
PAED 509	Specific Infections and Genetics	1
PAED 510	Paediatrics Oncology	1
PAED 511	Neonatology	1

### **PAED 501: INTRODUCTION TO PAEDIATRICS 2Credits**

Lectures/Tutorials: The aim is to provide the students with basic knowledge of the discipline of general practice. These lectures cover a wide range of selected topics in paediatrics to include general principles and practice of paediatrics, preventive paediatrics to include general principles and practice of paediatrics, preventive paediatrics, growth and development (from infancy to adolescence) and pathological states in paediatrics in all systems.

Clinical Paediatrics: The art of paediatric patient clerking is taught in the outpatient clinics and in the wards. A student should be expected to clerk and if possible present at least 6 cases per posting. Instructions in diagnostic and therapeutic skills and clinical procedures i.e. veno-puncture, setting up of intravenous infusions, performance of lumbar punctures, resuscitation of patients in respiratory or cardiac failure, bone marrow aspiration, exchange blood transfusions. Each student is expected to perform simple laboratory procedures like CSF, urine and stool

microscopy and chemistry and therapeutic and diagnostic skill including basic principle of radiology, other imaging techniques on specimens obtained from his/her Patient. The student, on ward round day, should present the Patient he/she clerked to the Consultant and follow up the Patient's progress until discharge. He/ She is also expected to write a discharge summary.

**PAED 502: NUTRITION, GROWTH AND DEVELOPMENT**

**2 Credits**

Attendance at the nutrition clinic is compulsory for instruction on the nutritional needs of normal children and those with disorders like protein-energy-malnutrition, marasmus, and micronutrient deficiencies. Technical skill of anthropometry is taught and instructions on the use and value of the growth charts and on factors affecting growth and development of children are highlighted: Anthropometry, factors affecting growth and development, failure to thrive babies and causes, puberty, adolescence and its problem.

Rights of the Child: Initiation of sexual activity, sexual violence and abuse. Harmful practices – female genital mutilation, forced early marriage and puberty initiation rites. Convention on the rights of the child. national policy on adolescent health. Peculiar problem of the girl child.

HIV/AIDS: Neonatal infection; primary, asymptomatic or symptomatic infections; Paediatric dermatology; prevention and control.

**PAED 503:CHILD HEALTH AND PRIMARY CARE**

**2 Credits**

Students should visit Child Health Clinics and are instructed on the care of healthy infants. They also must pay visit to the Under Five Clinics. There they are also expected to individually perform such function as: immunization procedure, assessment of nutritional status of children, anthropometry, and giving nutritional advice to mother's assessment of status of children, anthropometry, and giving nutritional advice to mother's assessment of status of children. Seminars are conducted on environmental and social factors related to child health. Students are also introduced to prevention and management of physical and mental handicap in children. Others include: Poisons and Accidents, kerosene ingestion, household accidents, drug poisoning, bites. Child Health: immunization in general for the Nigerian child, under five clinics, weaning – normal and abnormal habits. Miscellaneous: the handicapped child, neurosis and psychosis in childhood.

**PAED 504: CARDIOVASCULAR AND RESPIRATORY SYSTEM**

**2 Credits**

Examination of the CVS. Congenital heart diseases, acquired heart diseases. Heart failure in infancy and childhood acute infections of the respiratory tract and chronic respiratory conditions: bronchial asthma, pulmonary tuberculosis, bronchiectasis, the wheezing child, congenital anomalies of the tract.

**PAED 505: GENITOURINARY SYSTEM AND GASTRO-INTESTINAL TRACT**

**2 Units**

Acute diarrhoea and vomiting. Chronic diarrhoea. Fluid and electrolyte imbalance, ORT. Jaundice, hepatitis. Intestinal parasites. Abdominal pain, Malabsorption, GIT bleeding. Developmental and structural anomalies of the genitourinary tract. Urinary tract infections. Glomerulonephritis. Nephrotic syndrome and renal failure (acute, chronic).

**PAED 506: ENDOCRINE AND METABOLIC DISEASES**

**1 Credit**

Hypothyroidism and hyperthyroidism, Diabetes mellitus and hypoglycemia, rickets. Precocious puberty and delayed puberty.

**PAED 507: DISEASES OF THE CNS, MUSCLES AND BONES 1 Credit**

Acute infections, meningitis, encephalitis etc. Hydrocephalus: causes, complications. Microcephalus; causes & complications. Convulsions in infancy and childhood. Coma and cerebral palsy. Mental sub normality. Pyomyositis and progressive muscle diseases.

**PAED 508: DISEASES OF THE BLOOD 1 Credit**

Anaemia in infancy and childhood. Haemoglobinopathies. Leukaemia. Bleeding disorders.

**PAED 509: SPECIFIC INFECTIONS AND GENETICS 1 Credit**

Measles, pertussis, mumps, malaria. Tuberculosis, salmonellosis, schistosomiasis. Autosomal recessive inheritance, autosomal dominant inheritance. X-linked dominant inheritance, X-linked recessive inheritance. Chromosomal abnormalities, genetic investigations and counseling.

**PAED 510: PAEDIATRICS ONCOLOGY 1 Credit**

Burkitt's tumour, neuroblastoma, hepatoblastoma. CNS Tumors and reticulo-endothelial malignancies.

**PAED 511: NEONATOLOGY 1 Credit**

Students should spend some time (7-14 days) in the newborn unit to acquaint themselves with the problems of the newborn infant – normal and abnormal – and prevention of these: Normal newborn, preterm, small-for-date, post term baby, jaundice in the newborn, haemorrhagic disease in newborn, respiratory problems in newborn and neonatal infections: Sepsis, Meningitis Tetanus.

## 4.4 OBSTETRICS AND GYNAECOLOGY

### OBSTETRICS AND GYNAECOLOGY (OBGY)

**YEAR 5 INTRODUCTORY GYNAECOLOGY**

OBGY 501	Introductory Gynaecology	2 Credits
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**YEAR 5 OBSTETRICS AND GYNAECOLOGY I PHASE I**

OBGY 502	Reproductive Physiology & Disorders of Pregnancy	2 Credits
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OBGY 503	Labour, Puerperium & the Neonate	2 Credits
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**YEAR 6 OBSTETRICS AND GYNAECOLOGY II PHASE II**

OBGY 504	Gynaecology Clinics	2 Credits
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OBGY 505	Obstetrics Clinics	2 Credits
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OBGY 506	Special Topics and Clinics	2 Credits
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<b>TOTAL</b>		<b>12 Credits</b>
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**OBGY 501: INTRODUCTORY GYNAECOLOGY****2 Credits**

Anatomy of the female genital tract and the pelvic floor., Puberty, Menstrual cycle, Variations in menstrual cycle, including dysfunctional uterine bleeding. Development of the female genital tract: Sex determination, intersexuality, Congenital abnormalities. Tubo-ovarian infection, acute and chronic. Over-fertility and Family Planning. Infertility – Male and Female . Menopause. Utero-vaginal prolapse. Control of micturition: incontinence of urine, genuine stress incontinence, detrusor instability, overflow incontinence. Vesico-vaginal fistula. Retention of urine. Third degree perineal tear and recto-vaginal fistula. The use of hormones in gynaecological practice. Screening for gynaecological malignancies. Carcinoma of the cervix. Benign and malignant diseases of the uterus: Uterine fibroid, Adenomyosis, Carcinoma of the endometrium. Trophoblastic diseases: Benign and Malignant. Amenorrhoea – Primary and Secondary. Sexually transmitted diseases. Chronic vulva diseases. Endoscopy in gynaecological practice. Ectopic pregnancy and other acute gynaecological emergencies. Principle of pre-operative and post-operative care.

**OBGY 502: REPRODUCTIVE PHYSIOLOGY AND DISORDERS OF PREGNANCY****2 Credits**

Weight gain in pregnancy. Circulatory and respiratory changes in pregnancy. Renal and Alimentary changes in pregnancy. Metabolic changes in pregnancy. Immunology of reproduction. The placenta, amniotic fluid. The physiology of lactation. Anaemia in pregnancy. Aetiology, malaria and Complications, prophylaxis and treatment including blood transfusion. Haemoglobinopathies. Hypertensive Disorders of pregnancy. Pre-eclampsia and Eclampsia, essential hypertension, chronic renal diseases. Diabetes Mellitus. Heart and renal diseases. Chronic renal disease. Thyroid diseases. Acute renal failure in Obstetrics and Gynaecology. Infections – Meningitis, acute Pyelonephritis, tuberculosis, diarrhoeal diseases, Tetanus. Bleeding in early pregnancy. Antepartum Haemorrhage: Placenta praevia, Ante-partum haemorrhage: Abruption placenta; coagulation disorders in Obstetrics. Factors interfering with fetal oxygenation: Maternal and placental; intra-uterine growth retardation: postmaturity. Assessment of fetal wellbeing and placental function in pregnancy and labour: identification of the fetus at risk. Abdominal pain in pregnancy.

**OBGY 503: LABOUR, PUERPERIUM AND THE NEONATE****2 Credits**

Physiology and conduct of normal labour. Uterine action: normal and abnormal; the use of partogram in early detection of abnormal labour. Trial of labour; Management of prolonged labour. Malpresentation of fetal head: occipito-posterior position, brow, face. Obstructed labour: Causes, diagnosis, principles of management. Rupture of the uterus. Breech delivery: conduct and hazards. Twin pregnancy. Management of twin delivery. The retained second twin. The epidemiology of prematurity and the conduct of premature labour. Induction of Labour. Prevention and treatment of post-partum haemorrhage. The use of ergometrine and other oxytocic agents.

Management of oblique and transverse lies: prolapsed of the cord. Maternal Mortality. Biological and social factors in obstetrics – age, parity, stature, smoking, ethnic factors etc. physiology of puerperium including lactation. Postnatal examination. Conduct of labour in the presence of maternal Medical disease – Haemoglobinopathy, Anaemia, heart diseases, diabetes mellitus, chronic chest disease and liver failure. Blood transfusion in obstetrics. Organization of maternity services for a Community. Radiology in obstetrics and gynaecology. Operative deliveries –

forceps delivery venous delivery, caesarean section. Destructive procedures. Special problem of anaesthesia in obstetrics. Methods of pain relief in labour. Prenatal and post-partum detection of congenital abnormalities of the new born. The asphyxiated infant, resuscitation and management. Intracranial birth injuries.

## **PHASE II**

OBGY 504	Gynaecology Clinics -	2 Credits
OBGY 505	Obstetrics Clinics -	2 Credits
OBGY 506	Special Topics and Clinics	2 Credits

**SEXUAL HISTORY** – Taking: Effective Communication techniques, barriers to effective Communication, Patient – centered interviewing, history taking skills. Patient education: Principles of effective Patient education, Patient motivation and behaviour change. Principles of effective Patient education, Patient motivation and behaviour change. Patient counselling, informed consent, options in counselling, decision – making and managing emotions.

Adolescent Sexual and Reproductive Health: Puberty and abnormalities, adolescent behaviour in Nigeria. Initiation of sexual activity, unplanned pregnancy, sexual violence and abuse. Harmful traditional practices – female genital mutilation, puberty initiation (including courtship and marriage preparation). Adolescent – friendly services. Consequences of teenage pregnancy.

Safe Motherhood: Include physiology and disorders of pregnancy; Objectives and Conduct of antenatal Care; Normal and abnormal Labours, and care: Pain control in Labour; Maternal Morbidity and Mortality; Resuscitation and Care of the Newborn; Exclusive Breastfeeding; Immunization.

Family Planning: Including History, objectives, benefits and conduct of Family Planning; counselling Technique; choosing a Contraceptive- Effectiveness, safety and other considerations; Traditional and Natural methods; barrier and Hormonal methods; Intrauterine devices; emergency contraception; sterilization; and menstrual regulation. Reproductive health of elderly including menopause.

Abortion and Complications: Include definition of abortion, causes, types, clinical features, diagnosis, Complications and treatment. Medical and surgical methods of abortion. The provisions of Criminal and Penal codes on abortion. The Abortion Law, its defects and consequences. Adoption and fostering. Management of Complications of unsafe abortion. Post abortion care; emergency treatment of incomplete abortion, including use of the MVA, post abortion family planning and linkage with other reproductive health services.

Infertility Management: Including epidemiology, causes and prevention. Investigation and treatment of infertility; frigidity and erectile dysfunction, assisted conception techniques, fostering and adoption.

Sexually Transmitted Infections: Include Epidemiology, Pathogenesis, clinical features, diagnosis prevention and control of gonorrhea, chancroid, Chlamydia, syphilis, trichomonas, gardnerella, candida, herpes genitals, human papilloma virus, pelvic inflammatory disease and pubic lice. STIs and pregnancy, delivery of the newborn. Syndromic and etiologic management of STIs. Contact management.

HIV/AIDS: Include epidemiology, Pathogenesis, clinical features, diagnosis, prevention and control, HIV and pregnancy, prevention of mother-to-child transmission (vertical transmission)



and infant feeding. Anti-retroviral therapy, pre and post test counselling management and care (including home based care).

Screening for Cancers: Epidemiology, causes, features, prevention and treatment of cancers of : vulva, vagina, cervix, uterus, ovary and breast. Self-examination of breasts. Cervical cytology, colposcopy. Visual inspection of acetic acid-smear cervix (VIA) and visual inspection of acetic acid-smeared cervix under magnification (VIAM).

#### **4.5 SURGERY (SURG )**

##### **YEAR 2 INTRODUCTORY SURGERY**

SURG 501	Introduction to Clinical Surgery	2
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##### **YEAR 5 PHASE I JUNIOR SURGERY**

SURG 601	General Surgery	2
SURG 602	Gastrointestinal Surgery	1
SURG 603	Urology	1
SURG 604	Solid Tumours and other Neoplasms	1

##### **YEAR 6 PHASE II SENIOR SURGERY**

SURG 605	Plastic Surgery and Burns	1
SURG 606	Cardiothoracic including Vascular Surgery	2
SURG 607	Paediatric Surgery	2
SURG 608	Neuro Surgery	1
SURG 609	E.N.T	1
SURG 610	Ophthalmology	1
SURG 611	Orthopaedics	1
SURG 612	Special Topics in Surgery	1

<b>TOTAL</b>		<b>17 Credits</b>
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##### **SURG 501: INTRODUCTION TO CLINICAL SURGERY 2 Credits**

History and general physical examination of the surgical patient. Physical signs in clinical surgery. Pre-operative preparation and post-operative care of patients.

##### **SURG 601: GENERAL SURGERY 2 Credits**

Principles of surgery, Hernias, Skin lesions, tumours and ulcers, tuberculosis, Kaposi, Buruli and wide variety of tropical ulcers. Thyroid disease, goiter, tumour, cyst and infections, and other endocrine abnormalities.

##### **SURG 602: GASTROINTESTINAL SURGERY 1 Credit**

Gastrointestinal Pathology with particular reference to diseases due to delay in diagnosis and arrival at hospital. The wide range of conditions associated with hernias, gangrenous bowel, peritonitis, intra-abdominal abscess and fistula.

##### **SURG 603: UROLOGY 1 Credit**

Urological conditions particularly those associated with complications of urethral stricture, upper tract obstruction, hydronephrosis, renal failure and fistula. Schistosomiasis and bladder cancer. Lesions, ulcers, hydrocoele and tumours. Prostatic and testicular lesions and carcinoma.  
Solid Tumors and Other Neoplasms

**SURG 604: SOLID TUMORS AND OTHER NEOPLASMS 1Credit**

Solid tumors, benign and malignant and, particularly neoplasms of the liver, reticulo-endothelial system e.g. Burkitts lymphoma and salivary glands and jaws.

**SURG 605: PLASTIC SURGERY AND BURNS 1 Credit**

Ulcers, Management of the different degrees of burns, Skin grafts.

**SURG 606: CARDIOTHORACIC INCLUDING VASCULAR SURGERY 2 Credits**

The various types of asphyxia and respiratory distress, particularly in small children. Cardiothoracic conditions including vascular surgery.

**SURG 607: PAEDIATRIC SURGERY 2 Credits**

Congenital anomalies particularly the more manageable lesions of the gut, exomphalos, atresia and anorectal agenesis of the lower urinary tract: club foot and other obvious skeletal deformities.

**SURG 608: NEURO-SURGERY 1 Credit**

The common intracranial disorder, subdural haematoma, cerebral abscess and other causes of raised intracranial pressure, as well as spinal cord lesions.

**SURG 609: EAR, NOSE AND THROAT (E.N.T) 1 Credit**

The Common disorder of the ear, chronic otitis media with discharge, foreign body etc.

**SURG 610: OPHTHALMOLOGY 1 Credit**

Common Diseases of the Eyes

**SURG 611: ORTHOPAEDICS 1 Credit**

Bone and joint diseases in particular chronic osteomyelitis, tuberculosis and effects of the haemoglobinopathies. The common bone tumours and the bony changes associated with other infectious disorders, tropical ulcer, histoplasmosis.

**SURG 612: SPECIAL TOPICS IN SURGERY 1 Credit**

Traumatology and problem of road traffic accidents. Care of the severely injured, management of shock, treatment of fractures.

**4.6 ANAESTHESIOLOGY (ANAE) YEAR 5 2 Credits**

ANAE 601 Resuscitation Principles and Practice of Anaesthesia 1 Credit

ANAE 602 Clinicals in Anaesthesia 1 Credit

**ANAE 601: RESUSCITATION PRINCIPLES AND PRACTICE****1 Credit**

Airway Management: Anatomy of Airway, cause of obstruction, diagnosis of obstruction, consequences of obstruction, methods of securing and maintaining the airway, diagnosis and Management of Respiratory Insufficiency. Clinical features. Laboratory investigations e.g. Spirometry, Blood gases. Management e.g. Oxygen therapy and positive pressure ventilation. Circulatory Insufficiency. Factors affecting cardiac output, blood pressure and venous return. Shock and Cardiac standstill.

Clinical in Anaesthesia Diagnosis and Management of Circulatory Insufficiency

**ANAE 602: CLINICALS IN ANAESTHESIA****1 Credit**

Clinical features of stock and cardiac arrest. Management of airway, ventilation, blood volume replacement, control of infection and monitoring devices. Management of ventilation and external cardiac massage and drugs.

The Unconscious Patient: Causes of Coma with particular reference to anaesthesia cardinal principles in the immediate management, management of Patient in prolonged Coma, cerebral function monitoring.

**OPERATIVE ANAESTHESIOLOGY:** Preparation of patient, history and examination of patient, routine and special investigations, pre-medication. Choice of anaesthesia- general regional and local, induction and maintenance of anaesthesia, endotracheal anaesthesia. Interaction of drugs, e.g. inhalation relaxant, spinal epidural field block, nerve blocks. The effect of anaesthesia on some disease states e.g. diabetes hypertension with hypertensive heart disease, sickle cell disease, anaemia.

Pre-medication drugs- opiates, anxiolytic and sedatives. General anaesthetic agents: induction agents- thiopentone propofol, diazepam, ketamine, inhalational agents- ether, halothane, trichloroethylene, ethylchloride, adjuvants – muscle relaxants, anticholinergics,  $\text{NaHCO}_3$  adrenaline, calcium gluconate and chloride, vasopressors, osmotic diuretics, local anaesthesia e.g. lignocaine.

**4.7 COMMUNITY HEALTH AND PRIMARY HEALTH CARE****18 Credits****YEAR 2**

COMH 201	Introductions to Medical Statistics	1 Credit
COMH 202	Human Ecology/ Medical Sociology	1 Credit

**YEAR 3**

COMH 301	Health Statistics and Demography	1 Credit
COMH 302	Research Methods in Public Health Field activities	1 Credit

**YEAR 4**

COMH 401	Field and Laboratory Activities in Community Health	1 Credit
COMH 402	Integrated Public Health. Lectures and Endemic Diseases	2 Credit
COMH 403	Integrated Clinical Teaching and Public Health Tutorials	1 Credit

**YEAR 5**

COMH 501	Community Health and Primary Health Care Posting	8 Credits
COMH 502	Computers in Medicine	1 Credit

**COMH 201: INTRODUCTION TO MEDICAL STATISTICS 1 Credit**

Role of statistics in Human Biology and Medicine. Collection and organization of data and scales of measurements. Presentation of data. Measures of central tendency and location. Measures of variability. Introduction to probability and inductive statistics. Estimating population values. Statistical significance of difference. Association, correlation and regression. Critique of a scientific paper. Planning of health survey. Design and interpretation of clinical trials.

**COMH 202: HUMAN ECOLOGY/MEDICAL SOCIOLOGY 1 Credit**

Sociology of the Family: Family structures and Patterns, Marriage and Family Institutions, functions of the Families; Family structures and health. Male participation in reproductive health issues.

Mental health: including prevention and social aspects of mental health, special care, and child care and marriage guidance.

Human organizations and system: behavior and behavioral factors contributing to health; human change processes (biological and psychological) and; moral and cultural obligation of citizens; culture and reproductive health care, human rights- including rights of the child, women and other vulnerable individuals; universal declaration of the human rights; international convention on the elimination of all forms of racial discrimination and sexual harassment. Convention on the elimination of all forms of discrimination against women. Convention against torture and other cruel, inhuman or degrading treatment or punishment. Convention of the Rights of the child.

Ecological Concepts: Components of the environment (physical, biological and social). Man's interaction with environment; adaptation process, balance and change. Human organization and systems. Traditional and modern health systems. Description of human populations. Behavioural concepts in public health. Classification of health behaviour and practices. Change processes. The Community as laboratory History of Medicine

**COMH 301: HEALTH STATISTICS AND DEMOGRAPHY 1 Credit**

Sources of population data. Sources of health and vital statistics. Measurements of health and disease. Measurement of fertility and mortality. Standardization of vital rates. Population dynamics, structure and growth. Interaction between Medical action, population, health and population growth.

**COMH 302: RESEARCH METHODS IN PUBLIC HEALTH FIELD ACTIVITIES****1 Credit**

Sampling techniques. Design of Medical and public health studies. Questionnaire design and data collection analysis and interpretation.

**COMH 401: FIELD AND LABORATORY ACTIVITIES IN COMMUNITY HEALTH****1 Credit**

This consists of lectures and guided visits to various public health programs including the following: Environmental health services including visits to water treatment works, sewage treatment plants, markets and other food processing factories and abattoirs, refuse disposal

systems etc. Community Welfare Services, lectures and visits to Remand homes, Homes for motherless and handicapped children, prisons, schools for the deaf etc. Public Health Laboratories: lectures and demonstration on their activities including testing of water etc. Control of Communicable diseases, lectures and visits to the tuberculosis clinic and the infectious disease clinics. Occupational Health Services; lectures and visits to selected industries

## **COMH 402: INTEGRATED PUBLIC HEALTH LECTURES AND ENDEMIC DISEASES**

### **2 Credits**

Epidemiology, definition and principles and methods. Family Health (Maternal and Child, Health/Family Planning). Health Education. Environmental health. Occupational Health. Public Health Nutrition. Public Health Administration/ Health Management. Primary Health Care. Social Medicine. Medical Ethics.

Epidemiology: Definition and principles of Epidemiology. Methods and uses of Epidemiology. Epidemiological studies. Epidemiological studies and control of Common Communicable diseases.

Family Health: concept and Components and objectives of family health. Measurements in family health. Health problems of mothers and children. Practice of family health. Immunization programmes. Population Dynamics and family health programmes.

Environmental Health: The Physical environment of man health, Components of environmental sanitation, Water supply and wastes disposal, Housing and health, food hygiene and vector control. Legislation and Environmental Health.

Occupational Health: History of occupational health. The working environment. Common Occupational Health Problems in Nigeria and their control. The health problems of Agricultural workers. National and international regulations relating to occupational health.

Community Health Nutrition: Nutrition and health. Epidemiology and control of Common nutritional problems in Nigeria. Infection and Nutrition. Nutritional values of Common Nigerian foodstuffs. Food policy, hygiene and toxicology. Assessment of nutritional status. Nutrition education.

Community Administration: History of Health Service Administration. Concepts, principles and functions of management. Comparative Analysis of Health care system in different countries Services in Nigeria. The Health Planning Process. Evaluation of Health Services.

Social Medicine: History of social Medicine. The underprivileged members of society. Classification and causes of handicaps. Programme for the handicapped, social welfare services in Nigeria and other countries. Sexuality education i.e. Courtship, Marriage preparation, assertiveness, negotiative skills, responsible parenthood, sexual orientation, roles, values clarification, safe sex practices and family planning methods. Frigidity, erectile dysfunction. Health insurance scheme, administration and population development.

International Health: Origins and Development of international Health. The world Health Organization. International Health regulations. Other Governmental; and Non-Governmental Organizations involved with international Health.

Medical Ethics: History and evolution of Medical ethics. International Code of Medical Ethics, Duties of Doctors. The Nigerian Medical and Dental Council. Professional Negligence/Responsibility/Confidentiality/Misconduct. Ethics of Medical Research. The doctor and the law: Judicial, Coroner's Court.

**Gender Issues:** Convention on the elimination of all forms of Discrimination against women (CEDAW); Female genital cutting (FGC), Puberty and widowhood rite; Male child preference and Discrimination against the Girl Child; Forced Early Marriage; Wife inheritance and Hospitality Practices, Violence Against Women and Men, Sexual Abuse and women Trafficking.

**COMH 403: INTEGRATED CLINICAL TEACHING AND PUBLIC HEALTH TUTORIALS** **1 Credit**

This course is to demonstrate to the student the inter-relationship between Community health and all other Medical disciplines and how they contribute jointly to reducing mortality and morbidity and the general quality of life.

**COMH 501: COMMUNITY HEALTH AND PRIMARY HEALTH CARE POSTING** **8 Credits**

Community Health Posting 4 Credits

This posting is to last a period of 4 weeks and to be spent in selected urban/rural settings. During the period, students will gain experiences in the following areas: Curative Services. Environmental Health. Family health. Family Health. Health Education. Immunization and Common Communicable diseases. Promotion of relevant Data and evaluation of Programmes Promotion of Nutrition. Carrying out of specific Community Health Research Projects. Home Visiting. Training and supervision of Auxiliaries and other Health professionals.

**COMH 502: COMPUTER IN MEDICINE** **1 Credit**

History of computer, functional components of Computer, characteristics of Computer problem solving, flow chart, Algorithms Computer programming, statements, symbolic names, array, subscripts, exposition and control statement. Introduction to basic programming languages, computer application. Application of Computer to Medicine: Introduction of Basic Programming. Data types- constants and variables. Statement types, Assignment types, Input-output statements. Control statements. Data Base Management Systems. Creation, access and storage in files. Practical posting to Computer Centers.

**COMH 503: INTRODUCTION TO ENTREPRENEURIAL STUDIES** **1 Credit**

Introduction to entrepreneurship and new venture creation; entrepreneurship in theory and practice; the opportunity- sources, identification, etc. The entrepreneurship team and finance. Raising financial capital, marketing and new venture; innovation- management, determinants, process in new ventures, case studies as specific for Doctors and Dentists; New workshop; Growth and Harvest.

**SCHOOL OF COMPUTING AND ENGINEERING SCIENCES**



***Professor Oludele AWODELE, PhD., FNCS, FCAI, MCPN, FICWLS, FAIMP  
Dean***



***Edafe DOGO***  
***School Officer***

**DEPARTMENT OF COMPUTER SCIENCE**



***Professor Adeyinka A. ADEKUNLE, PhD.***



***Head of Department***

**ACADEMIC STAFF LIST**

<b>S/N</b>	<b>Name</b>	<b>Position</b>	<b>Area of Specialization</b>
1.	Awodele, Oludele Ph.D	Professor/Dean	Artificial Intelligence
2.	Adekunle Adeyinka. A. Ph.D.	Professor/HOD	Numerical Computation/Knowledge Based Systems
3.	Ogbonna, Chibueze A. Ph.D	Professor	Project Management
4.	Omotosho, Olawale J. Ph.D	Professor	Instrumentation and Measurement
5.	Okolie, Samuel O. Ph.D.	Professor	Numerical Computation
6.	Goga, Nicolae Ph.D	Processor	Molecular Dynamics/Software Engineering
7.	Adebayo, Adewale O. Ph.D.	Professor	Information Security
8.	Eze, Monday Ph.D	Associate Professor	Computational Algorithm and Data Mining
9.	Alao, Olujimi D. Ph.D.	Senior Lecturer	Human Computer Interaction
10.	Kuyoro, Afolashade O. Ph.D.	Senior Lecturer	Artificial Intelligence
11.	Ogunlere, Samson O. Ph.D	Senior Lecturer	Digital Electronics
12.	Ajaegbu, Chigozirim Ph.D.	Senior Lecturer	Networking and Telecommunications
13.	Agbaje, Monday O. Ph.D.	Senior Lecturer	Computer Security
14.	Adegbenjo, Aderonke A., MSc	Lecturer I	Networking and Telecommunications System
15.	Ayankoya, Folasade Y. Ph.D	Lecturer I	Programming/Computer Forensics/Artificial Intelligence Artificial Intelligence/Machine Learning
16.	Akande, Oyebola Ph.D	Lecturer I	Networking
17.	Omotunde, Ayokunle A. Ph.D	Lecturer I	Artificial Intelligence/
18.	Onuiri, Ernest E.	Lecturer I	Bioinformatics
19.	Abel, Samuel B. Ph.D	Lecturer II	Information Systems
20.	Ajayi, Adebowale Ph.D	Lecturer II	Information Security
21.	Otusile, Oluwabukola Ph.D	Lecturer II	Networking & Telecommunication
22.	Ebiesuwa Oluwaseun Ph.D	Lecturer II	Information Systems and Health Informatics
23.	Okoro, Ukonu R. Ph.D	Lecturer II	Database Management &

			Business Intelligence Technology Cyber Security Cyber Security Management Information System Networking & Telecommunication Artificial Intelligence/ Data Science
24.	Adesegun, Oreoluwa A. Ph.D	Lecturer II	
25.	Ogu, Emmanuel C. Ph.D	Lecturer II	
26.	Izang, Aaron	Lecturer II	
27.	Afonne Emmanuel I. Ph.D	Lecturer II	
28.	Nzenwata Uchenna J.	Asst. Lecturer	

### Adjunct Staff

S/N	Name	Position	Specialization
1.	Makinwa Kofi A. A. Ph.D	Visiting Professor	Control & Instrumentation
2.	Ekekwe Ndubuisi Ph.D	Visiting Professor	Cyber Security
3.	Nesenoff, M. B. Ph.D	Visiting Professor	Computer Engineering/Embedded Systems
4.	Ibikunle Frank A. Ph.D	Senior Lecturer (Temporary Employment)	Networking and Telecommunication
5.	Adewole Adetunji P. Ph.D	Senior Lecturer (Adjunct)	Knowledge Management
6.	Ojesanmi Olusegun A. Ph.D	Senior Lecturer (Adjunct)	Networking
7.	Adekoya Adebayo Ph.D	Senior Lecturer (Adjunct)	Networking
8.	Ajayi, O. B. Ph.D	Senior Lecturer (Adjunct)	System Programming
9.	Onashoga S. A. Ph.D	Senior Lecturer (Adjunct)	Networking
10.	Bonde Lossan Ph.D	Senior Lecturer (Adjunct)	System Programming
11.	Onifade Olufade F. W. Ph.D	Senior Lecturer (Visiting)	Networking and Data Mining
12.	Akinola Solomon Olalekan Ph.D	Senior Lecturer (Visiting)	Information Science
13.	Tayo, Omolara Ph.D	Lecturer I (Adjunct)	Artificial Intelligence/ Project Management

### NON-ACADEMIC STAFF LIST

S/N	Name	Position
1.	Somefun, Olawale M.	Asst. Chief Lab. Technologist
2.	Adeniji Babatope S.	Principal Computer Lab. Tech
3.	Onilede Olutimi M.	Senior Computer Lab. Tech
4.	Mensah, Yaw A.	Senior Computer Lab. Technologist
5.	Osundina Mayowa	Computer Technologist
6.	Udosen Alfred	Computer Technologist

7.	Bamidele Oluwadoyinsola O.	Computer Technologist
8.	Dogo, Bawa E.	School Officer
9.	Adelakin Jumoke	Secretary

### **Mission Statement/Philosophy**

The Mission of the computer science programme in its various options is to train young minds and equip them for public or private initiative, professional careers in industry and the academia - developing and maintaining applications/solutions and networks. The Department of Computer Science is to prepare men and women for business and related disciplines by providing basic programs in the various areas suited to the needs and requirements of the society at large, within the context of high moral and ethical standards.

### **Objectives**

The courses and programs offered by the Department are designed to provide the students with a variety of skills necessary to succeed in the high technology environment within the industry, society and the church, as well as training students for software and hardware design, manufacture and maintenance. Through projects involving real life applications, students are given broad background knowledge of the technological enterprise system within a framework of moral and ethical guidelines. Specifically, students are exposed to experiences that enable them to:

- Know why information processing is necessary in the IT and electronic world.
- Value modern technology, and appreciate the role computers play in the society.
- Handle simple tasks differently and better, e.g. connecting simple electrical/electronic circuits.
- Process data, store and retrieve information through the use of the computer, and application of word processing, spreadsheets and database packages.
- Use the available software and hardware to simulate the physical world.
- Acquire the ability to integrate information systems into the business environment, and explore methods of leveraging business functions through information systems, and function in entry-level
- Receive technical orientation and managerial skills for strategic uses of information systems.
- Acquire knowledge of the digital electronic fundamentals of computer including sufficient knowledge of Programming and some standard software applications.
- Proceed to graduate study in Computer science, Computer Engineering, Mathematics or get employment in industry.

### **(c) ADMISSION REQUIREMENTS**

Candidates can be admitted into any of the degree programmes in the school of computing by one of the following three ways:

- The Unified Tertiary Matriculation Examination (UTME)
- Direct Entry
- Inter University Transfer

### **UTME Entry Mode**

The minimum academic requirement is credit level passes in five subjects at O'Level in nationally recognized examination including English Language, Mathematics and three other science subjects which are relevant to the intended programme at not more than two sittings. In addition, an acceptable pass in the Unified Tertiary Matriculation Examination (UTME) with relevant subject combination is also required for admission into 100 level.

### **Direct Entry Mode**

Candidates seeking admission into a programme in science through Direct Entry must have passes at GCE 'A' Level/IJMB or its equivalent in a minimum of two science subjects relevant to the intended programme to be considered for admission into 200 level. This is in addition to fulfilling the requirement of a minimum of credit level passes in five relevant subjects at 'O' Level as indicated above.

### **Inter-University Transfer Mode**

Students can transfer into 200-Level courses provided they have the relevant qualification. Universities are to certify that students meet the minimum requirements for the inter-university transfer.

## **REQUIREMENT FOR GRADUATION**

Minimum requirement of 160 credits for Computer Science, 168 credits for Computer Science (Information Systems) and 172credits for Computer Science (Technology) are needed for the award of the B.Sc. degree in different programmes. Direct entry candidates earn less than the stipulated number. The distribution of the credit requirement by Level is as follows:

### **B.SC. COMPUTER SCIENCE**

<b>LEVEL</b>	<b>GEDS COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>CERTIFICATE SUPPORT</b>	<b>TOTAL</b>
100	17	24	2	43
200	9	27	2	38
300	5	30	2	37
400	5	35	2	42
<b>TOTAL</b>	<b>36</b>	<b>117</b>	<b>8</b>	<b>160</b>

### **B.Sc. COMPUTER SCIENCE (INFORMATION SYSTEMS OPTION)**

<b>LEVEL</b>	<b>GEDS COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>CERTIFICATE SUPPORT</b>	<b>TOTAL</b>
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100	17	26	2	45
200	9	28	2	39
300	5	36	2	43
400	5	34	2	41
<b>TOTAL</b>	<b>36</b>	<b>125</b>	<b>8</b>	<b>168</b>

**B.Sc. COMPUTER SCIENCE (TECHNOLOGY OPTION)**

<b>LEVEL</b>	<b>GENERAL EDUCATION COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>CERTIFICATE SUPPORT</b>	<b>TOTAL</b>
<b>100</b>	<b>17</b>	<b>23</b>	<b>2</b>	<b>42</b>
<b>200</b>	<b>9</b>	<b>33</b>	<b>2</b>	<b>44</b>
<b>300</b>	<b>5</b>	<b>33</b>	<b>2</b>	<b>40</b>
<b>400</b>	<b>5</b>	<b>39</b>	<b>2</b>	<b>46</b>
<b>SUB TOTAL</b>	<b>36</b>	<b>128</b>	<b>8</b>	<b>172</b>

**B.Sc COMPUTER SCIENCE**  
**COMPUTER SCIENCE OPTION**  
**100 LEVEL COURSE**

COURSE CODE	COURSE TITLE	SEMESTER	
		1ST	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and study skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131,132	Communication in English I, II	2	2
GEDS 134	Nigerian People in a Global Culture.	-	2
	<b>CORE COURSES</b>		
COSC 111	Introduction to Computer Science and Programming I	3	-
COSC 112	Introduction to Computer Science and Programming II	-	3
MATH 101, 102	General Mathematics I, II	3	3
PHYS 101, 102	General Physics I, II	3	3
CHEM 101	General Chemistry 1	3	-
STAT 101	Introductory Statistics	2	-
MATH 104	General Mathematics III	-	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 107	Configuring Clients Operating Systems	1	-
COSC 108	Hardware System Studies I (A+)	-	1
	<b>TOTAL (45 Credits)</b>	<b>23</b>	<b>22</b>

**B.Sc COMPUTER SCIENCE**  
**COMPUTER SCIENCE OPTION**  
**200 LEVEL**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001,002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 200	Communication in French	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environmental and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
COSC 203	Operating System I	3	-
COSC 205	Programming in JAVA	3	-
COSC 206	Programming in C/C ++	-	3
COSC 212	Numerical Methods and Analysis I	-	3
COSC 226	Programming Techniques with VB.NET	-	3
MATH 203	Sets Logics and Algebra	3	-
MATH 206	Discrete Mathematics	-	3
STAT 201	Statistical Methods I	2	-
STAT 202	Statistical Methods II	-	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 209	Hardware System Studies II (A+)	1	-
COSC 222	Fundamental of Computer Security	-	1
	<b>TOTAL (41 Credits)</b>	<b>19</b>	<b>22</b>

**B.Sc COMPUTER SCIENCE**  
**COMPUTER SCIENCE OPTION**  
**200 LEVEL DIRECT ENTRY**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 200	Communication in French	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environmental and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
COSC 203	Operating System I	3	-
COSC 205	Programming in JAVA	3	-
COSC 206	Programming in C/C ++	-	3
COSC 111	Introduction to Computer Science and Programming I	3	-
COSC 112	Introduction to Computer Science and Programming II	-	3
COSC 212	Numerical Methods and Analysis I	-	3
COSC 226	Programming Techniques with VB.NET	-	3
MATH 203	Sets Logics and Algebra	3	-
MATH 206	Discrete Mathematics	-	3
STAT 201	Statistical Methods I	2	-
STAT 202	Statistical Methods II	-	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 209	Hardware System Studies II (A+)	1	-
COSC 222	Fundamental of Computer Security	-	1
	<b>TOTAL (47 Credits)</b>	<b>22</b>	<b>25</b>



**B.Sc. COMPUTER SCIENCE  
COMPUTER SCIENCE OPTION**

### 300 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
GEDS 280	Leadership Skills	2	
	<b>CORE COURSES</b>		
COSC 302	Algorithm and Data Structures	-	3
COSC 303	Operating Systems II	3	-
COSC 306	Survey of Programming Languages	-	3
COSC 309	Introduction to Operations Research	3	-
COSC 312	Numerical Methods and Analysis II	-	3
COSC 317	Computer Hardware	2	
COSC 325	Research Methodology and Current Topics	2	-
COSC 327	Information Systems Analysis and Design	2	-
COSC 335	Data Communication and Computer Networks	2	-
COSC 360	Students Industrial Work Experience (SIWES)	-	6
ITGY 307	Linux System Administration	3	-
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 305	SQL Fundamentals	1	-
COSC 328	Androids	-	1
	<b>TOTAL (41 Credits)</b>	<b>23</b>	<b>18</b>

**SIWES: Six months of Industrial Exposure is mandatory for all Students in the department of Computer Science.**

## **B.Sc COMPUTER SCIENCE**

### **COMPUTER SCIENCE OPTION**

#### **300 LEVEL DIRECT ENTRY COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
GEDS 280	Leadership Skills	2	
	<b>CORE COURSES</b>		
COSC 302	Algorithm and Data Structures	-	3
COSC 303	Operating Systems II	3	-
COSC 306	Survey of Programming Languages	-	3
COSC 309	Introduction to Operations Research	3	-
COSC 312	Numerical Methods and Analysis II	-	3
COSC 205	Programming in JAVA	3	-
COSC 206	Programming in C/C ++	-	3
COSC 317	Computer Hardware	2	-
COSC 325	Research Methodology and Current Topics	2	-
COSC 327	Information Systems Analysis and Design	2	-
COSC 335	Data Communication and Computer Networks	2	-
COSC 360	Students Industrial Work Experience (SIWES)	-	6
ITGY 307	Linux System Administration	3	-
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 305	SQL Fundamentals	1	-
COSC 328	Androids	-	1
	<b>TOTAL (47 Credits)</b>	<b>26</b>	<b>21</b>

**SIWES: Six months of Industrial Exposure is mandatory for all Students in the department of Computer Science.**

**B.Sc COMPUTER SCIENCE  
COMPUTER SCIENCE OPTION  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1ST</b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	S/U	S/U
GEDS 400	Introduction to Entrepreneurial Skills	2	
GEDS 420	Biblical Principles in Personal and Professional Life		3
	<b>CORE COURSES</b>		
COSC 401	Compiler Construction	3	-
COSC 402	Information Theory and Data Communication Systems	-	3
COSC 423	Artificial Intelligence and Applications	3	-
COSC 333	Database System Design, Implementation and Management	3	-
COSC 425	Computer Organization and Architecture	3	-
COSC 424	Object-Oriented Programming Techniques	-	3
ITGY 401	Web Design and Development	-	3
COSC 490	Research Project	-	6
SENG 400	Principles of Software Engineering	3	
SENG 412	Internet Technologies and Web Application Development	-	3
	<b>ELECTIVES (SELECT ANY ONE)</b>		
*COSC 408	Modelling and Simulations	-	3
*ITGY 410	Cyber Law, Crime, Forensics and Auditing	3	-
*ITGY 400	Reverse Engineering and Malware Analysis	2	-
*COSC 427	Machine Learning with Python	3	-
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 409	Database Admin Workshop	1	-
COSC 430	Hands on Java Training	-	1
	<b>TOTAL (45/46 Credits)</b>	<b>20/21</b>	<b>25</b>

**\*Students are to take only one of the elective courses.**

**BSc COMPUTER SCIENCE**  
**COMPUTER INFORMATION SYSTEM (CIS) OPTION**

**100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1ST</b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and study skills	2	-
GEDS 112	Health Principles	-	2
GEDS 107	Introduction to General Psychology	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131, 132	Communication in English I , II	2	2
GEDS 134	Nigeria People in a Global Culture.	-	2
	<b>CORE COURSES</b>		
COSC 111	Introduction to Computer Science and Programming I	3	-
COSC 112	Introduction to Computer Science and Programming II	-	3
MATH 101, 102	General Mathematics I , II	3	3
PHYS 101, 102	General Physics I , II	3	3
STAT 101	Introductory Statistics	2	-
ACC T 101, 102	Principles of Accounting I, II	3	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 107	Configuring Clients Operating Systems	1	-
COSC 108	Hardware System Studies I (A+)	-	1
	<b>TOTAL (45 Credits)</b>	<b>23</b>	<b>22</b>

**BSc COMPUTER SCIENCE**  
**COMPUTER INFORMATION SYSTEMS (CIS) OPTION**  
**200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 200	Communication in French	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environmental and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution		2
GEDS 280	Leadership Skills		2
	<b>CORE COURSES</b>		
COSC 203	Operating System I	3	-
COSC 205	Programming in JAVA	3	-
COSC 206	Programming in C/C ++	-	3
COSC 212	Numerical Methods and Analysis I	-	3
COSC 226	Programming Techniques with VB.NET	-	3
MATH 203	Sets, Logic and Algebra	3	-
STAT 201	Statistical Methods I	2	-
ECON 101, 102	Principles of Economics I, II	3	3
ITGY 212	Information Systems	-	2
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 209	Hardware System Studies II (A+)	1	-
COSC 222	Fundamental of Computer Security	-	1
	<b>TOTAL (45 Credits)</b>	<b>22</b>	<b>23</b>

**BSc COMPUTER SCIENCE**  
**COMPUTER INFORMATION SYSTEMS (CIS) OPTION**  
**200 LEVEL DIRECT ENTRY COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 200	Communication in French	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environmental and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution		2
GEDS 280	Leadership Skills		2
	<b>CORE COURSES</b>		
COSC 203	Operating System I	3	-
COSC 111	Introduction to Computer Science and Programming I	3	-
COSC 112	Introduction to Computer Science and Programming II	-	3
COSC 205	Programming in JAVA	3	-
COSC 206	Programming in C/C ++	-	3
COSC 212	Numerical Methods and Analysis I	-	3
COSC 226	Programming Techniques with VB.NET	-	3
MATH 203	Sets, Logic and Algebra	3	-
STAT 201	Statistical Methods I	2	-
ECON 101, 102	Principles of Economics I, II	3	3
ITGY 212	Information Systems	-	2
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 209	Hardware System Studies II (A+)	1	-
COSC 222	Fundamental of Computer Security	-	1
	<b>TOTAL (51 Credits)</b>	<b>25</b>	<b>26</b>

**BSc COMPUTER SCIENCE**  
**COMPUTER INFORMATION SYSTEMS (CIS) OPTION**  
**300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
	<b>CORE COURSES</b>		
COSC 302	Algorithms and Data Structures	-	3
COSC 303	Operating Systems II	3	-
COSC 335	Data Communication and Computer Networks	2	-
COSC 325	Research Methodology and Current Topics	2	-
ITGY 307	Linux System Administration	3	-
COSC 312	Numerical Methods and Analysis II	-	3
COSC 309	Introduction to Operations Research	3	-
COSC 327	Information Systems Analysis and Design	2	-
COSC 360	Students Industrial Work Experience (SIWES)	-	6
ECON 253	Principles of Microeconomics	3	-
ECON 254	Principles of Macroeconomics	-	3
ACCT 203, 204	Cost Accounting I, II	3	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 305	SQL Fundamentals	1	-
COSC 328	Androids	-	1
	<b>TOTAL (46 Credits)</b>	<b>25</b>	<b>21</b>

**SIWES: Six months of Industrial Exposure is mandatory for all students in the  
department of computer science**



**BSc COMPUTER SCIENCE**  
**COMPUTER INFORMATION SYSTEMS (CIS) OPTION**  
**300 LEVEL DIRECT ENTRY COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
	<b>CORE COURSES</b>		
COSC 302	Algorithms and Data Structures	-	3
COSC 303	Operating Systems II	3	-
COSC 335	Data Communication and Computer Networks	2	-
COSC 325	Research Methodology and Current Topics	2	-
COSC 205	Programming in JAVA	3	-
COSC 206	Programming in C/C++	-	3
ITGY 307	Linux System Administration	3	-
COSC 312	Numerical Methods and Analysis II	-	3
COSC 309	Introduction to Operations Research	3	-
COSC 327	Information Systems Analysis and Design	2	-
COSC 360	Students Industrial Work Experience (SIWES)	-	6
ECON 253	Principles of Microeconomics	3	-
ECON 254	Principles of Macroeconomics	-	3
ACCT 203, 204	Cost Accounting I, II	3	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 305	SQL Fundamentals	1	-
COSC 328	Androids	-	1
	<b>TOTAL (52 Credits)</b>	<b>28</b>	<b>24</b>

**SIWES: Six months of Industrial Exposure is mandatory for all students in the  
department of computer science**

**BSc COMPUTER SCIENCE**  
**COMPUTER INFORMATION SYSTEMS (CIS) OPTION**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
COSC 402	Information Theory and Data Communication Systems	-	3
SENG 412	Internet Technologies and Web Application Development	-	3
COSC 333	Database System Design, Implementation and Management	3	-
COSC 423	Artificial Intelligence and Applications	3	-
ITGY 401	Web Design and Development	-	3
COSC 490	Research Project	-	6
SENG 400	Principles of Software Engineering	3	
COSC 424	Object-Oriented Programming Techniques	-	3
COSC 415	E-Commerce	2	-
ECON 491	Labour Economics and Industrial Relations	3	-
	<b>ELECTIVES</b>		
* COSC 408	Modelling and Simulations	-	3
*ITGY 410	Cyber Law, Crime, Forensics and Auditing	3	-
* ITGY 400	Reverse Engineering and Malware Analysis	2	-
*COSC 427	Machine Learning with Python	3	
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 409	Database Admin Workshop	1	-
COSC 400	JAVA	1	-
COSC 430	Hands on Java Training	-	1
	<b>TOTAL (44/45 Credits)</b>	<b>19/20</b>	<b>25</b>

**BSC COMPUTER SCIENCE**

## COMPUTER TECHNOLOGY (CT) OPTION

### 100 LEVEL

COURSE CODE	COURSE TITLE	SEMESTER	
		1ST	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and study skills	2	-
GEDS 112	Health Principles	-	2
GEDS 107	Introduction to General Psychology	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131, 132	Communication in English I , II	2	2
GEDS 134	Nigeria People in a Global Culture.	-	2
	<b>CORE COURSES</b>		
COSC 111, 112	Introduction to Computer Science and Programming I, II	3	3
MATH 101,102	General Mathematics I , II	3	3
PHYS 101,102	General Physics I , II	3	3
CHEM 101	General Chemistry	3	-
STAT 101	Introductory Statistics	2	-
ELCT 101	Engineering Drawing	2	-
MATH 104	General Mathematics III	-	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 107	Configuring Clients Operating Systems	1	-
COSC 108	Hardware System Studies I (A+)	-	1
	<b>TOTAL (47 Credits)</b>	<b>25</b>	<b>22</b>

**BSc COMPUTER SCIENCE**  
**COMPUTER TECHNOLOGY (CT) OPTION**

**200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 200	Communication in French	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environmental and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution		2
	<b>CORE COURSES</b>		
COSC 203	Operating System I	3	-
COSC 204	Introduction to Digital Computing	-	3
COSC 205	Programming in JAVA	3	-
COSC 206	Programming in C/C ++	-	3
COSC 212	Numerical Methods and Analysis I	-	3
COSC 226	Programming Techniques with VB.NET	-	3
MATH 201	Engineering Mathematics I	3	-
MATH 203	Sets, Logic and Algebra	3	-
ELCT 201	Applied Electricity	3	-
ELCT 202	Basic Electronics	-	3
ELCT 204	Instrumentation and Measurements	-	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 209	Hardware System Studies II (A+)	1	-
COSC 222	Fundamental of Computer Security	-	1
	<b>TOTAL (48 Credits)</b>	<b>23</b>	<b>25</b>

## BSc COMPUTER SCIENCE

### COMPUTER TECHNOLOGY (CT) OPTION 200 LEVEL DIRECT ENTRY COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 200	Communication in French	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environmental and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution		2
	CORE COURSES		
COSC 203	Operating System I	3	-
COSC 204	Introduction to Digital Computing	-	3
COSC 111	Introduction to Computer Science and Programming I	3	-
COSC 112	Introduction to Computer Science and Programming II	-	3
COSC 205	Programming in JAVA	3	-
COSC 206	Programming in C/C ++	-	3
COSC 212	Numerical Methods and Analysis I	-	3
COSC 226	Programming Techniques with VB.NET	-	3
MATH 201	Engineering Mathematics I	3	-
MATH 203	Sets, Logic and Algebra	3	-
ELCT 201	Applied Electricity	3	-
ELCT 202	Basic Electronics	-	3
ELCT 204	Instrumentation and Measurements	-	3
	INTERNATIONAL CERTIFICATION SUPPORT		
COSC 209	Hardware System Studies II (A+)	1	-
COSC 222	Fundamental of Computer Security	-	1
	<b>TOTAL (54 Credits)</b>	<b>26</b>	<b>28</b>

**B.Sc COMPUTER SCIENCE  
COMPUTER TECHNOLOGY (CT) OPTION  
300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 280	Leadership Skills		2
	<b>CORE COURSES</b>		
COSC 302	Algorithms and Data Structures	-	3
COSC 303	Operating Systems II	3	-
COSC 317	Computer Hardware	2	
COSC 325	Research Methodology and Current Topics	2	-
COSC 335	Data Communication and Computer Networks	2	-
COSC 337	Automata and Formal Theory of Computation	3	-
COSC 360	Students Industrial Work Experience (SIWES)	-	6
ELCT 301	Digital Electronics	3	-
ELCT 302	Pulse and Switching	-	3
ELCT 304	Circuit Design and Testing	-	3
ELCT 305	Communication Principles	2	-
MATH 301	Engineering Mathematics II	3	-
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
ELCT 313	Configuring Windows Server	1	-
COSC 328	Androids	-	1
	<b>TOTAL (44 Credits)</b>	<b>24</b>	<b>20</b>

**B.Sc COMPUTER SCIENCE  
COMPUTER TECHNOLOGY (CT) OPTION  
300 LEVEL DIRECT ENTRY COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 280	Leadership Skills	-	2
	<b>CORE COURSES</b>		
COSC 302	Algorithms and Data Structures	-	3
COSC 303	Operating Systems II	3	-
COSC 317	Computer Hardware	2	
COSC 205	Programming in Java	3	-
COSC 206	Programming in C/C++	-	3
COSC 325	Research Methodology and Current Topics	2	-
COSC 335	Data Communication and Computer Networks	2	-
COSC 337	Automata and Formal Theory of Computation	3	-
COSC 360	Students Industrial Work Experience (SIWES)	-	6
ELCT 301	Digital Electronics	3	-
ELCT 302	Pulse and Switching	-	3
ELCT 304	Circuit Design and Testing	-	3
ELCT 305	Communication Principles	2	-
MATH 301	Engineering Mathematics II	3	-
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
ELCT 313	Configuring Windows Server	1	-
COSC 328	Androids	-	1
	<b>TOTAL (50 Credits)</b>	<b>27</b>	<b>23</b>

**SIWES: Six months of Industrial Exposure is mandatory for all Students in the department of Computer Science.**

**B.Sc COMPUTER SCIENCE  
COMPUTER TECHNOLOGY (CT) OPTION  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
COSC 401	Compiler Construction	3	-
COSC 402	Information Theory and Data Communication Systems	-	3
COSC 423	Artificial Intelligence and Applications	3	-
COSC 425	Computer Organization and Architecture	3	-
COSC 333	Database System Design, Implementation and Management	3	-
SENG 400	Principles of Software Engineering	3	
SENG 412	Internet Technologies and Web Application Development	-	3
ITGY 401	Web Design and Development	-	3
ELCT 404	Microprocessor Applications	-	3
ELCT 405	Advanced Digital Electronics	3	-
ELCT 406	Signal Processing	-	3
COSC 490	Research Project	-	6
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
ELCT 419	NETWORK +	1	-
ELCT 410	CCNA	-	1
	<b>TOTAL (46 Credits)</b>	<b>21</b>	<b>25</b>



## **B. Sc. COMPUTER SCIENCE**

### **COURSE DESCRIPTIONS**

#### **COURSES OFFERED BY OTHER DEPARTMENTS**

**COSC 226: PROGRAMMING TECHNIQUES WITH VB.NET L:2, P:1 3Credits**  
Introduction to Visual Studio.NET and VB.NET. Basic concepts in VB.NET programming. Development algorithms. Data types and variables. VB.NET operators and expressions. Output formatting .Control structures. Classes, methods and properties, arrays. Inheritance and exceptions inVB.NET. Windows forms and event handling. Dialog boxes, using controls. Database programming and applications. Prerequisite COSC111 and COSC112.

**INSY 301: INTERMEDIATE SPREADSHEET L:1, P:1 2Credits**  
Study of spreadsheet usage for solving problems in a business environment, includes a survey of microcomputer architecture and operating systems. This applies only to non-majors.  
*Prerequisite: GEDS 290.*

**INSY 302: BUSINESS MICROCOMPUTER APPLICATIONS L:1, P:1 2Credits**  
Use of microcomputer applications software for solving problems in business environments. This includes advanced Word Processing, graphics presentation using standard Word Processing packages. **Prerequisite: INSY 301**

#### **DEPARTMENTAL COURSES**

**COSC 111: INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMMING I**  
**L: 2, P: 3 3 Credits**

An introduction to program methodology using the C programming language including computer usage within a UNIX environment, problem solving, algorithm development, control structures, arrays, program style, program design, code documentation techniques, and program correctness. Further study of programming methodology by examining program specifications, design, coding, correctness and style with additional coverage of pointers and arrays. Other topics include character and strings, input &output formatting, structures. File processing. A number of programming exercises areas signed.

**COSC 112: INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMMING II**  
**L: 2, P:1 3 Credits**

An introduction to program methodology using the C++programming language including computer usage within a UNIX environment, C++ basic parts, problem solving, algorithm development, basic data types, control structures, arrays, Functions, searching and sorting. Basic class concepts- constructors/destructors, operator over loads, inheritance, program style, program design, code documentation Techniques, and program correctness. Procedural and Object oriented programming. Other topics include file Processing, introduction to stacks and queues. Applications

**COSC 203: OPERATING SYSTEM I 3 Credits**

Introduction to operating system-history of operating system; core operating system components; operating goals; operating system architecture, types of operating system hardware and software

concepts, memory management, virtual memory management

**COSC 205: PROGRAMMING IN JAVA L: 2, P: 3 3Credits**

Basic concepts of Java at an introductory programming level, covering good programming practices and process, syntax. Other topics include Data types and operations. Java Applets, servlets. Developing Java applications, control structures, methods arrays, object-oriented programming techniques, classes, objects, constructors, encapsulation .strings and characters, graphics, basic GUI components, multimedia. Java utility package and bit manipulation. Introduction to Java database programming. Various projects are developed.

Prerequisite COSC 111

**COSC 204: INTRODUCTION TO DIGITAL COMPUTING 3 Credits**

Number system/ representation. Binary representation: bits, nibbles, bytes; Character representation: numeric, non-numeric, alphanumeric, EBCDIC, BCD, ASCII, ANSI. Error correlation, parity. Binary arithmetic operations addition, subtraction, multiplication division. Binary point. Floating point and Fixed point. Basic logic gates, symbols, truth tables. Boolean algebra, Theorems, Minimization methods, etc...FLIP-FLOPS, registers, etc.

**COSC 212: NUMERICAL METHODS AND ANALYSIS I L:2, P:1 3Credits**

Representation of numbers, errors, computation of functions. A study of common numerical techniques applicable on the computer for solution e.g. Non-Linear Equations: Newton-Raphson method, iterative methods, Bairstow's method. Algebraic Eigenvalue Problem: The characteristics polynomial, the power method, Givens and Householder methods. Finite Differences Forward, backward and central differences Prerequisites: MATH102

**COSC 302: ALGORITHMIS AND DATA STRUCTURES L: 2, P:1 3Credits**

Basic Structures for data representation-Graphics and Network flows. Data definition languages. Sequential and linked storage allocation: - for linear lists, multi-linked structures String processing techniques. Trees-implementation, traversal and mathematical properties. Dynamic storage allocation- Sorting, Searching, algorithmic analysis. Prerequisites: COSC202.

**COSC 303: OPERATING SYSTEMS II 3Credits**

Process management, including asynchronous concurrent processes and deadlock. Virtual storage management and job and process scheduling. Multiprocessing. Disks scheduling, file and database systems. Performance and security. JCL in respect of maintenance of libraries and job organization. Prerequisite: COSC302.

**COSC 306: SURVEY OF PROGRAMMING LANGUAGES L: 2, P: 1 3Credits**

Overview of programming languages: History of programming languages, brief survey of programming paradigms (Procedural languages, object- oriented languages, Functional languages, Declarative-non-algorithmic languages, Scripting languages), the effects of scale on programming methodology; language description: Syntactic Structure (Expression notations, abstract syntax Tree, Lexical Syntax, Grammar of Expressions, Variants of Grammars),

Language Semantics (Informal semantics, overview of semantics, Denominational semantics, axiomatic semantics, operational semantics); Declarations and types: The concepts of types, Declaration models (binding, visibility, scope, and lifetime), overview of type-checking, garbage collection; Abstract mechanisms: Procedures, Function, and iteration as abstraction mechanisms, Parameterization mechanisms (reference vs. value), Activation records and storage management, type parameters and parameterized types, Modules in programming languages; object-oriented programming languages paradigm; Functional and logic language paradigms.

### **ITGY 307: LINUX SYSTEM ADMINISTRATION**

**3Credits**

This course would focus on practical issues in Linux system administration to provide students with skills and capabilities to work as a system administrator; Deployment and Installation, general system administration-user and group admin, basic linux commands, booting up and down, software management. Linux shell utilities, File system management, core System daemon, kernel and compilation concept. Networking: TCP/IP and network configuration, local and network security with applications of internet protocols like HTTP, SMTP and DNS. Prerequisite: COSC203

### **COSC 309: INTRODUCTION TO OPERATIONS RESEARCH**

**3Credits**

Phases of operation Research study. Classification of O/R modes-linear, dynamic and integer programming. Decision theory, inventory modes, critical path analysis and project control.

### **COSC 312: NUMERICAL METHODS AND ANALYSIS II**

**3Credits**

Interpolation: Aitken's Language and Hermite interpolation formulae, difference schemes. Approximation: Cheby shev polynomials rational functions and continued functions. Numerical Integration and Differentialism: Newton-Cotes formulae, Gauss's integration formulae. The Euler Method, Runge Kutta Methods, Predictor- Corrector Methods. Hyperbolic, parabolic and elliptic equations. Error estimation and convergence of the methods. Prerequisite COSC204

### **COSC**

**317:**

### **COMPUTER**

### **HARDWARE**

**2Credits**

A survey of fundamentals with emphasis on hardware and systems concepts.-Interfaces and configurations. Computer application modes: Batch processing: Process/operation control interactive real Times. Time sharing. Multiplexing/De-multiplexing: MODEMS, ADC, DAC, Systems Viability: Graceful degradation; MTTR, MTBF etc. Computer Selection for a given application, economic versus technical considerations.

### **COSC 327: INFORMATION SYSTEM ANALYSIS AND DESIGN**

**3Credits**

General systems concepts; Information system components; Types of information system; Systems development life cycle (SDLC): steps; examples linear/waterfall, prototyping, spiral etc. Preliminary Investigation: feasibility activities; System analysis: determining requirements-facts finding techniques e.g. interviews, questionnaire, observation etc; analyzing requirements-structured analysis. DFD, Process description tools e.g. decision tables/tree, structured/tight English etc. Introduction to object oriented system analysis: Overview of object modeling UML. System Design: General guidelines; output design e.g. printed reports, screen output; tapes etc; Input design e.g. data entry screen design, help screen design. Real-life case studies to provide

experience in applying the principles and techniques presented. Prerequisite: COSC202, INSY241.

**COSC 337: AUTOMATA AND FORMAL THEORY OF COMPUTATION 3Credits**

Formal grammars and automata, regular languages context-free languages. Formal systems of computation including post productions. Turing machines and recursive functions. Recursive and recursively enumerable sets. Undecided ability of computation.

**COSC 360: STUDENTS INDUSTRIAL WORK EXPERIENCE (SIWES) 6 Credits**

Students are expected to take a 6 month Industrial attachment during the summer period.

**COSC 401: COMPILER CONSTRUCTION L: 3, P: 1 3Credits**

Language Structure: Lexical and Syntax analysis. Storage allocation for program subroutine linkage, code generation and optimization:-Compilation approaches-Multi pass, Single pass, Load and Go; Compilation implementation-scanning, syntax directed table driven. Work space and dumping.

**COSC 402: INFORMATION THEORY AND DATA COMMUNICATION SYSTEMS**

**3Credits**

Historical background of information theory models or compilation systems, coding theory. Information and encoding, basic concepts of interactive computing, interactive terminals devices protocols, the tele-processing environment, equipment and techniques, data transmission, lines, services, common carriers, line-control, error detection, algorithms and network design.

**COSC 408: MODELING AND SIMULATIONS L:2,P:1 3Credits**

The concepts and techniques used in modeling and simulation methodology. Definition and uses of simulation, stochastic processes, discrete simulation languages, detailed study of a chosen simulation language and applications, Laboratory exercises.

**COSC 415: E-COMMERCE 2Credits**

Focuses on key issues and concerns relating to e-commerce and equips students to respond to its many challenges from an informed perspective. Areas covered include: technical requirements either for new e-businesses looking to exploit e-commerce as well as current technical constraints. Students learn to analyze existing e-business and e-commerce projects and recognize their strengths and weaknesses taking lessons learned into account when formulating their own plans for new and expanding e-commerce. The importance is highlighted viewing e-commerce through the eyes of the customer while still meeting the needs of the business as well as developing an ethical approach to the use of new and existing customer data.

**COSC 423: ARTIFICIAL INTELLIGENCE AND APPLICATIONS 3Credits**

Basic AI issues. Intelligent agents; Problem solving as Search; Search strategies: Breadth first, depth first, uniform cost, depth constraint Satisfaction Problems, Backtracking Search For CSP, Constraint Propagation, Local search for CSPs. Logic-based knowledge representation. Application of AI techniques in natural languages scene analysis, expert systems, KBS, robot

planning. Laboratory exercises in AI languages e.g. LISP/Prolog.

**COSC 425: COMPUTER ORGANIZATION AND ARCHITECTURE      3Credits**

Level of machine design: gates register and processor levels. CPU configuration and design- Instruction set, instruction mix. CPU configuration and design- Instruction set, instruction mix. Von Neuman architecture, multiplication and division algorithms and implementation. Parallelism: multiprocessors, pipelining etc. Control unit design, Hardwired and multi-programming control. Memory design; Review of memory technologies, cost-performance consideration, hierarchical memory design, cache, associative and interleaved memory system organization, fault tolerance.

**COSC 490:                      RESEARCH PROJECT                      6 Credits**

Independent research into selected areas topics of interest to the Academic staff. Students will be required to carry out literature survey on the topics, perform experiments and produce short reports (preferably at the end of second semester). Students will be subjected to both seminar and oral examination on the projects undertaken.

**CERTIFICATION COURSES (NEW HORIZON)**

**COSC 107:    CONFIGURING CLIENTS OPERATING SYSTEMS                      1 Credit**

Installing Windows 10. Performing Post-Installation Configuration. Implementing Networking and Security. Managing Windows 10 with Group Policy. Managing Storage, Files, and Resources. Deploying and Managing Apps. Securing Windows 10. Implementing Remote Connectivity. Maintaining Windows 10. Recovering Windows 10.

**COSC 108, 209: HARDWARE SYSTEM STUDIES I, II (A+)                      1, 1 Credit**

Hardware Fundamentals. Managing System Components. Managing Data Storage. Supporting Display Devices. Installing and Configuring Peripheral Components. Customized Client Environments. Supporting Printers and Multifunction Devices. Networking Technologies. Installing and Configuring Networking Capabilities. Supporting Mobile Digital Devices. Operating System Fundamentals. Installing and Configuring Microsoft Windows. Optimizing and Configuring Microsoft Windows. Working with other Operating Systems. Networking and Security Fundamentals. Security Threats, Vulnerabilities, and Controls. Implementing Security Controls. Troubleshooting System-Wide Issues. Safety and Operational Procedures.

**COSC 222:    FUNDAMENTAL OF COMPUTER SECURITY                      2 Credits**

Foundations of security. Securing operating systems. Protecting systems using antivirus. Data encryption. Data backup and recovery. Internet security. Securing network connections, online transactions, and e-mail communications. Social Engineering and identity theft. Security on social media sites. Securing mobile devices.

**COSC 305:                      SQL FUNDAMENTALS                      1 Credit**

Identify the major components of Oracle Database 11g, Retrieve row and column data from tables with the SELECT statement, Create reports of sorted and restricted data, Employ SQL functions to generate and retrieve customized data, Run complex queries to retrieve data from multiple tables, Run data manipulation language (DML) statements to update data in Oracle

Database 11g, Run data definition language (DDL) statements to create and manage schema objects.

**COSC 328:     ANDROIDS**

**1 Credit**

Explain the architectural framework of android, installation process of Android SDK, composition of Android application framework, creating the UI for Android Application, Describes the views, layout, UI component, styles and themes, procedure for handling events, Shared Preferences Storage, Notification, Android security model, Google API, Explain Bluetooth, Network, Wi-Fi, and Sensors etc.

**COSC 430:     HANDS ON JAVA TRAINING**

**1 Credit**

Explain the structured programming paradigm, the object-oriented programming paradigm, the features of Java as a OOP language , Describe Java platform and its components , Explain the steps to develop, compile, and execute Java program using IDE's, Describe primitive and reference data types, List the different types of decision-making statements, describe an array, String Builder, Wrapper classes, boxing, Describe inheritance types, Polymorphism, static and dynamic binding, virtual method invocation.

**COSC 409:     DATA BASE ADMIN WORKSHOP**

**1 Credit**

Exploring the Oracle Database Architecture, Preparing the Database Environment, Creating an Oracle Database, Managing Database Instances, Managing ASM Instances, Configuring the Oracle Network Environment, Managing Database Storage Structures, Administering User Security, Managing Data Concurrency, Managing Undo Data, Implementing Oracle Database Auditing, Database Maintenance, Performance Management, Backup and Recovery Concepts, Performing Database Backups, Performing Database Recovery, Moving Data, Working with Support.

**ELCT 313:     CONFIGURING WINDOWS SERVER**

**1 Credit**

Deploying and Managing Windows Server 2012 R2 Overview. Introduction to Active Directory Domain Services. Managing Active Directory Domain Services Objects. Automating Active Directory Domain Services Administration. Implementing IPv4, Dynamic Host Configuration Protocol, DNS, IPv6, local storage, file & print services, and group policy. Securing Windows Servers Using Group Policy Objects. Implementing Server Virtualization with Hyper-Visor.

**ELCT 410:     CISCO CERTIFIED NETWORK ASSOCIATE (CCNA)**

**1 Credit**

Internetworking. Ethernet networking and data encapsulation. Introduction to TCP/IP. Subnetting, VLSMs, summarization, and troubleshooting. Cisco's Internetworking Operating System (IOS). Managing a Cisco Internetwork. IP routing, Open Shortest Path First (OSPF). Layer 2 switching. VLAN and interVLAN routing. Security. Network Address Translation (NAT). Internet Protocol Version 6 (IPv6). Enhanced switched technologies. Managing Cisco devices. IP services. Troubleshooting IP, IPv6, and VLANs. Enhanced IGRP. Multi-Area OSPF. Wide Area Networks (WANs).

**ELCT 419:     NETWORK+**

**1 Credit**

Network Theory. Bounded and Unbounded Network Media. Network Implementations. TCP/IP Addressing and Data Delivery. Routing. TCP/IP Services. WAN Infrastructure. Cloud and

Virtualization Technologies. Network Security Basics. Preventing Security Breaches. Responding to Security Incidents. Remote Networking. Network Management. Troubleshooting Network Issues.

### **ELECTRICAL COURSES DESCRIPTION**

#### **ELCT 101: ENGINEERING DRAWING P: 2 2Credits**

Use of draughting instruments, lettering, dimensioning, layout; Engineering Graphics: Geometrical Figures, Comics, e.t.c, Graphical Calculus and Applications. Development intersection of curves and solids; Projections: Lines, planes and simple solids, orthographic and isometric projections, simple examples. Threaded fastness. Pictorial/Freehand sketching; Conventional practices.

#### **ELCT 201: APPLIED ELECTRICITY L: 2, P:1 3Credits**

Network Analysis using Kirch off's voltage and current laws (Nodal Loop analysis), Norton the venius theorems; Resonant circuits; static and dynamics fields: Coloumbs laws for discrete and continuous charge distribution. E-field and Electric potentials. Biot-Savart law, Gauss' laws. Amperes laws and Faradays laws. Introduction to Electric machines. Study of AC &DC electric circuits Includes Laboratory

#### **ELCT 202: BASIC ELECTRONICS L: 2, P:1 3Credits**

Free electron motion in static electric and magnetic fields. Electronic structure of matter, conductivity in crystalline solids, theory of energy bands in conductors, insulators and semi-conductors, electron in metals and electron emissions, carriers and transport phenomena in semi-conductors, characteristics of some electron and photo devices, junction diodes and transistors, FETS SCR, Vacuum tubes, Photo visitors, diodes, transistors, photo cell and light emitting diode. Elementary devices fabrication techniques and IC Technology.

#### **ELCT 204: INSTRUMENTATION AND MEASUREMENTS L:2, P:1 3Credits**

Transducers and applications. General instrumentation, Basic meter in DC measurement, Basic meter in AC measurements, rectifier, voltmeter, Electro-dynamometer, and wattmeter, instrument transformers, DC and AC bridges and their applications general form of AC bridge, universal impedance bridge, electronic instruments for the measurement of voltage current resistance and other circuit parameter, electronic voltmeters, AC voltmeters using rectifiers, electronic multi meter, digital voltmeters; oscilloscope, vertical deflection system horizontal deflection system, probs, sampling CRO. Electronic function generators.

#### **ELCT 301: DIGITAL ELECTRONICS L:3, P:1 3 Credits**

Encoders, decoders, arithmetic circuits, introduction to computer organization and assembly language. Basic logic operations, Combinatoriallogic, Synchronous and Asynchronous counters. Up-down counters, Codes and Codes converters. Includesa3-hourweeklylab.

#### **ELCT 302: PULSE AND SWITCHING 3 Credits**

Pulse and switching circuits are applied to computers systems, and test equipment. Includes linear wave shapping, clipping, clamping, gating, switching, and multi vibrator circuits. Includesa3-hour weeklylab.Prerequisite:ELCT204

**ELCT 304: CIRCUIT DESIGN AND TESTING L: 2, P: 1 3 Credits**

The design, bread boarding, testing and debugging of a simple electronic systems. Tuned circuits. Single -Stage transistor amplifier. I-C operational amplifier. Analog to Digital conversion and Digital to Analogue conversion. Sampling theory. Sample hold circuit includes a 3-hour weekly lab. Entropy, channel capacity; source encoding, error detection and correction codes, encryption for data protection.

**ELCT 404: MICROPROCESSOR APPLICATIONS L: 2, P: 1 3 Credits**

Micro process or interfacing and applications in the area of process monitoring and control. Introduction to computer organization, microprocessors, assembly language programming, memory devices, and I/O devices. Includes a 3-hour weekly lab

**ELCT 405: ADVANCED DIGITAL ELECTRONICS L:2, P:1 3Credits**

Comparison of IC logic families, counter circuits, multiplexors, DE multiplexors, microprocessors, memory devices, i/o devices, interfacing with emphasis on control applications of microprocessors. Includes laboratory. Prerequisite: ELCT314

**ELCT 406: SIGNAL PROCESSING L:2, P:1 3Credits**

Realizability of driving point impedance; synthesis of two-terminal networks; Foster form realization, caner form realization, Discrete signals and Z- transform. Discrete Fourier Transform, Fast Fourier Transforms. Discrete transfer function; Digital Processor; Digital filtering; recursive and non-recursive filters; hardware and software realization of digital filters. Basic Image Processing.



## DEPARTMENT OF INFORMATION TECHNOLOGY



**Professor Adewale O. ADEBAYO, PhD, MBA, MCPN**  
*Head of Department*

### STAFF LIST

A. O. Adebayo, PhD, MBA	-	HOD/Professor – Information Systems/Security
S. O. Ogunlere, PhD	-	Senior Lecturer – Digital Electronics
O. D. Alao, B.Sc. (Eng.), M.Sc., PhD	-	Senior Lecturer – Human Computer Interaction
C. Ajaegbu, PhD	-	Senior Lecturer – Networks and Telecommunications
A. A. Omotunde, PhD	-	Lecturer I – Information Systems
E. I. Afonne, PhD	-	Lecturer II - Telecommunications
E. C. Ogu, PhD	-	Lecturer II – Computer Security
A. A. Izang, M.Sc.	-	Lecturer II - Data Science

### Adjunct

S. O. Okolie, PhD	-	Professor - Computation
M. O. Eze, PhD	-	Associate Professor – Computer Science
M. O. Agbaje, B.Sc., PGD, M.Sc., PhD	-	Senior Lecturer - Computer Science
O. A. Adesegun, PhD	-	Lecturer II - Computer Science

**Technical Staff**

O. Onilede, HND - Computer Lab. Technologist (IT) / Programmer

**Adjunct Technical**

O. Somefun, HND, B.Sc., M.Sc. - Assistant Chief Lab. Technologist (Electronics)

B. Adeniyi, HND - Senior Lab. Technologist (Microprocessor)

Y. A. Mensa, M.Sc. - Computer Lab. Technologist (Software Engr.)

M. A. Osundina, B.Tech. - Computer Lab. Technologist (Main Lab.)

A. A. Udosen, B.Sc. - Computer Lab. Technologist (Hardware/Regular)

**Administrative Staff**

F. L. Adetunji, ND, B.Sc. - Secretary

**INTRODUCTION**

The fast growing trend in both research and applications of IT from the perspective of hardware and software demands that IT programs in Babcock University have to be purpose and market driven, and research based with a well-defined focus on providing solutions to contemporary problems in both industry and academics. The department of Computer Science, running BSc (Hons) Information and Communication Technology and BSc (Hons) Information Technology, was established to fulfil these noble goals.

**VISION STATEMENT**

A first class faith-based Information Technology department building servant leader Information Technology graduates for a better world.

**MISSION STATEMENT**

Building Information and Communication Technology leadership through Christian Education; transforming lives, impacting Society for positive change.

**AIM AND OBJECTIVES OF THE DEGREE PROGRAMME**

The aim of the programmes is to equip its students with the knowledge and skills necessary to fulfil organizational needs of computer-based information systems, grow into leadership positions, and pursue research or graduate studies in the field, upon graduation. Graduates will be able to select, create, apply, integrate, administer and maintain computing technologies in organizations and within the larger society requiring collaboration.

The specific objectives of the programme are to:

- a. Provide students with a broad and balanced foundation of Information Technology knowledge and practical skills
- b. Develop in students the ability to apply knowledge and skills to solve potential problems of Information Technology
- c. Equip students with the capacity for professional practice in Computing and Information Technology
- d. Develop in students a range of transferrable skills of information technology to all aspects of human endeavours
- e. Develop candidates for self-employment and job placement in government or in any industry

- f. Create in students appreciation of the importance of information technology in industrial, political, economic, legal, natural, technological and social contexts for a better world
- g. Develop in students the urge for academic and professional pursuit in information technology and related disciplines.

## **COMPETENCIES AND SKILLS**

Students will be equipped with the competencies and skills to:

- i. Create and/or manage functional Information Technology resources of an individual or organization
- ii. Function as a user advocate in helping users and organizations employ appropriate computer-based information systems to achieve their objectives
- iii. Anticipate the changing direction of information technology, and evaluate and communicate the likely utility of new technologies to individuals and organizations
- iv. Use current techniques and tools necessary for computing practice
- v. Function competently in teamwork and leadership as IT solution provider, particularly in Africa and the world at large.

## **ADMISSION REQUIREMENTS**

Candidates can be admitted into any of the degree programmes in the School of Computing and Engineering Sciences by one of the following three ways:

- Unified Tertiary Matriculation Examination (UTME)
- Direct Entry
- Inter University Transfer

### **Unified Tertiary Matriculation Examination (UTME) Entry Mode**

The minimum academic requirement is credit level passes in five subjects at 'O' Levels in nationally recognized examination. The subjects include English Language, Mathematics, physics, chemistry and any other science subject, which are relevant to the intended programme, at not more than two sittings. In addition, an acceptable pass in UTME, with relevant subject combination, is also required for admission into first year (100 level).

### **Direct Entry Mode**

Candidates seeking admission into a programme in science through Direct Entry must have passes at GCE 'A' Level/IJMB or its equivalent, in a minimum of two science subjects relevant to the intended programme, to be considered for admission into second year (200 level). This is in addition to fulfilling the requirement of a minimum of credit level passes in five relevant subjects at 'O' Level as indicated for UTME Entry Mode.

### **Inter-University Transfer Mode**

A candidate can transfer into 200 level provided they meet the relevant qualifications, including entry requirements. Universities are to certify that students meet the minimum requirements for the inter-university transfer.

## **GRADUATION REQUIREMENTS**

Student graduation requirements are as follows:

- i) Basic entry requirements ('O' level, UTME, 'A' level or others)

- ii) Minimum number of Earned Credit Points for graduation: 159/162 Credit Points
- iii) Minimum Number of years for graduation: 4 years
- iv) Minimum residency requirement in years: 3 years
- v) Minimum CGPA for graduation: 2.50
- vi) Completion of Student Industrial Work Experience Scheme (SIWES).

#### Course Load Distribution

Level	General Education Courses	Departmental Core and Required Courses	Elective Courses	Certification Courses	Total
100	17	20/23	-	2	<b>39/42</b>
200	13	30	-	2	<b>45</b>
300	7	20	6	2	<b>35</b>
400	5	27	6	2	<b>40</b>
<b>TOTAL</b>	<b>42</b>	<b>97/100</b>	<b>12</b>	<b>8</b>	<b>159/162</b>

NOTE: The minimum pass grade for GEDS 131 and 132, Communication in English I and II, is C. This is also true for all core courses, including courses with course codes starting with ITGY, COSC, and SENG for students of the department of Information Technology.

**B.Sc. INFORMATION TECHNOLOGY  
100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and study skills	2	-
GEDS 112	Health Principles	-	2
GEDS 107	Introduction to General Psychology	2	-
GEDS 126	Life and Teaching of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-s	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
COSC 111, 112	Introduction to Computer Science and Programming I, II	3	3
PHYS 101, 102	General Physics I, II	3	3
MATH 101,102	General Mathematics I, II	3	3
CHEM 101	General Chemistry	3	-
STAT 101	Introductory Statistics	2	-
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 107	Configuring Client Operating Systems	1	-
COSC 108	Hardware System Studies I (A+)	-	1
	<b>TOTAL (42 Credits)</b>	<b>23</b>	<b>19</b>

\*\*CHEM 101 is applicable to 2020 and subsequent admitted students.

**B.Sc. INFORMATION TECHNOLOGY**  
**200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 200	Communication in French	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environmental and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
COSC 203	Operating System I	3	
COSC 205	Programming in JAVA	3	-
SENG 201	Fundamentals of Software Engineering	3	
ITGY 202	Fundamentals of Information Technology	-	3
SENG 102	Introduction to Web Technology and Development	-	3
ITGY 204	Information Technology in Business	-	3
ITGY 206	System Analysis and Design for IT	-	3
COSC 206	Programming in C/C++	-	3
MATH 203	Sets, Logic and Algebra	3	-
ECON 101	Principles of Economics I	3	-
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 209	Hardware System Studies II (A+)	1	-
COSC 222	Fundamentals of Computer Security	-	1
	<b>TOTAL (45 Credits)</b>	<b>23</b>	<b>22</b>

## B.Sc. INFORMATION TECHNOLOGY

### 300 LEVEL

COURSE CODE	COURSE TITLE	SEMESTER	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 280	Leadership Skills	2	
	<b>CORE COURSES</b>		
ITGY 321	Mobile Application Development	2	-
COSC 323	Computer Organization and Assembly Language	3	-
ITGY 307	Linux System Administration	3	-
COSC 302	Algorithms and Data Structures	-	3
ITGY 302	Research Methodology in IT	-	3
ITGY 360	Student Industrial Work Experience (SIWES)	-	6
	<b>*ELECTIVE COURSES</b>		
<b>Web Application Developer and Multimedia</b>			
ITGY 303	Web Server Administration	3	
ITGY 305	Web Design Aesthetics	3	
<b>Database Administrator</b>			
ITGY 323	Database Programming	3	
ITGY 309	Program Design and Data Structures	3	
<b>Network Administrator</b>			
ITGY 311	Network Security I	3	
ITGY 313	Network Servers and Infrastructures	3	
<b>Information Security Specialist</b>			
ITGY 315	Penetration Testing and Ethical Hacking	3	
ITGY 317	Information Defence Technologies	3	
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 305	SQL Fundamentals	1	-
COSC 328	Androids	-	1
	<b>TOTAL(35 Credits)</b>	<b>18</b>	<b>17</b>

**SIWES: Six months of Student Work Experience Scheme is mandatory for all 300 level students of this department.**

**\*Students are to select any two elective courses.**

**B.Sc. INFORMATION TECHNOLOGY  
400 LEVEL**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
ITGY 312	IT Project Development and Management		3
ITGY 403	Data Analysis	3	-
ITGY 405	Mobile and Pervasive Computing	3	-
ITGY 407	Enterprise Architecture	3	-
ITGY 421	Special Topics in Information Technology	3	-
ITGY 409	Social and Professional Issues in IT	3	-
ITGY 402	Applied Networks and Security	-	3
ITGY 490	Research Project (IT)	-	6
	<b>*ELECTIVE COURSES (SELECT ANY 2 )</b>		
<b>Web Application Developer and Multimedia</b>			
ITGY 411	Mobile Development	3	
ITGY404	Web Development Using Content Management Systems		3
<b>Database Administrator</b>			
ITGY 413	Database Administration	3	
ITGY 406	Data and Application Security		3
<b>Network Administrator</b>			
ITGY 415	Network Security II	3	
ITGY 408	Wireless Communications and Networking		3
<b>Information Security Specialist</b>			
ITGY 417	Computer Crime, Forensics, and Auditing	3	
ITGY 410	Information Storage and Management Technologies		3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 409	Database Admin Workshop	1	-
COSC 430	Hands on JAVA Training	-	1
	<b>TOTAL (40 Credits)</b>	<b>19</b>	<b>21</b>

**\*Students are to select any two elective courses.**



## **B.Sc. INFORMATION TECHNOLOGY**

### **COURSES DESCRIPTIONS**

#### **Courses Domicile in Department of Information Technology**

##### **ITGY 202: FUNDAMENTALS OF INFORMATION TECHNOLOGY 3 Credits**

Pervasive themes in information technology. Information technology systems model. Mild introduction to information technologies, human-computer interaction, information management, networking, platform technologies, programming and web systems and technologies. Data versus information; history of information technology and internet; information technology and its related and informing disciplines. Information technology application domains.

##### **ITGY 204: INFORMATION TECHNOLOGY IN BUSINESS 3Credits**

An Overview of e-business from design to operations of organisations engaging in the fast-paced highly competitive, global environment of e-commerce, e-business strategic use of information technology for competitive advantage, e-business impact on organization, globalization and the impact on options created through applied information technology.

##### **ITGY 206: SYSTEMS ANALYSIS AND DESIGN FOR IT 3 Credits**

This course presents a structured approach to analysis and design of information systems for businesses. Software development life cycle; structured top-down and bottom-up design, dataflow diagramming, entity relationship modelling; study of computer aided software engineering, input and output, prototyping design and validation, file and database design; design of user interfaces; comparison of structured and object-oriented design. Case studies that promote critical-thinking skills provide the context for these techniques.

##### **ITGY 302: RESEARCH METHODOLOGY IN IT 2Credits**

Foundations of research; problem identification and formulation; research design; qualitative and quantitative research; measurement; sampling; data analysis; interpretation of data and technical report writing; use of encyclopaedias, research guides, handbook etc., academic databases for computing discipline; use of tools/techniques for research: reference management software, software for detection of plagiarism

##### **ITGY 303: WEB SERVER ADMINISTRATION L: 2, P: 1 3 Credits**

Basic web server concept to the advanced topics in Apache. Covers Http protocol, Installation and configuration of apache, Directory Structure, Virtual hosts aliases and redirecting, Logging, Security best practice, Performance and Troubleshooting. Configuration and Administration, best practices and security considerations of other servers such as FTP, DNS and DHCP servers.

##### **ITGY 305: WEB DESIGN AESTHETICS L: 2, P: 1 3 Credits**

Examines a basic understanding of the principles of good design such as contrast unity and balance as the foundation of creating aesthetically pleasing websites. Topic to be treated include Understanding aesthetics, picking harmonious colour, structuring layout, using space to organize design; communication with the right fonts, Aligning objects to achieve balance, adding

movement with scrolling and animation, achieving proportion by scaling objects and text and creating CSS for different devices.

**ITGY 307: LINUX SYSTEM ADMINISTRATION L: 2, P: 1 3 Credits**

This course will focus on practical issues in Linux system administration to provide students with skills and capabilities to work as a system administrators: Deployment and Installation, general system administration-user and group administration, basic Linux commands, booting up and shutting down, software management. Linux shell utilities, file system management, core system daemon, kernel and compilation concepts. Networking: TCP/IP and network configuration, local and network security with applications of Internet protocols like HTTP, SMTP, and DNS.

**Pre-requisite: COSC 203**

**ITGY 309: PROGRAMME DESIGN AND DATA STRUCTURES 3Credits**

Fundamentals of data structures and analysis of algorithms. Large programmes written in a modern high-level programming language. Stresses abstraction, modular design, code re-use and correctness.

**ITGY 311: NETWORK SECURITY I 3 Credits**

Examines information security services and mechanisms in the network context. Topics include symmetric and asymmetric cryptography; message authentication codes, hash functions and digital certificates and public key infrastructure; access control including hardware and biometrics; intrusion detection and securing network-enabled applications including e-mail and web browsing.

**ITGY 312: IT PROJECT DEVELOPMENT AND MANAGEMENT 3 Credits**

Planning, design, selection and project management of information technology systems. Development of requirements, configuration of hardware and software, management of the procurement and implementation process, performance requirements, contract negotiation and legal issues within a comprehensive project; project monitoring and control, project audits, project closure, peer review, stress testing, quality planning, defect estimation and quality assurance, information technology project management methods and tools. Students will develop a tool-kit for creating a project plan for a distributed application and engage in a project to improve information technology project management capabilities of a globally distributed information system's organization systematically.

**ITGY 313: NETWORK SERVERS AND INFRASTRUCTURES 3 Credits**

Covers IP networking concepts and practices for IPv6 addressing, DHCP and DNS in IPv6 networks, secure communication over VPNs, VoIP architecture, Virtual computing, cloud computing, MPLS, traffic monitoring and network connectivity between operating systems. Students learn the latest technologies of IP networks and understand application level services used on the internet. Lab sessions focus on installation of applications on virtual servers.

**ITGY 315: PENETRATION TESTING AND ETHICAL HACKING 3 Credits**

Topics covered include phases of penetration testing, foot-printing, scanning, enumeration, system hacking, Trojan horses, viruses and worms, sniffing traffic, social

engineering, denial of service, session hijacking, hacking web servers, web applications, SQL injection, Wireless, Mobile hacking, IDS Firewalls and honeypots, buffer overflow and cryptography. **L: 2, P: 1**

**ITGY 317: INFORMATION DEFENCE TECHNOLOGIES 3 Credits**

This course will examine and assess the role of information technology as a tool of warfare and civil defence. Topics will be discussed from both defensive and offensive perspectives and will include asset tracking, asymmetric warfare, network centric warfare, physical attacks, cyberterrorism, espionage, psyops, reconnaissance and surveillance, space assets and applications of GPS and cryptographic technology. Students will research and write about the social, ethical and political effects of such technology.

**ITGY 321: MOBILE APPLICATION DEVELOPMENT L: 2, P: 1 2 Credits**

Introduction to developing mobile applications, beginning with mobile operating systems capabilities and application architecture and extending to major components, such as activities, services, broadcast receivers, etc. development of interactive applications using widget libraries, web-based services, animation, an SQL database engine, and multithreading.

**ITGY 323: DATABASE PROGRAMMING L: 2, P: 1 3 Credits**

The course introduces students to the oracle developer application development utilities and tools and describes how to create and manipulate databases in Oracle database management system. The course provides an extensive overview of SQL and introduction to PL/SQL. Topics include data definition and manipulation languages, stored procedures, triggers, indexing techniques and elementary query optimization.

**ITGY 402: APPLIED NETWORK SECURITY 3 Credits**

This course introduces the networking and security technologies required to build and maintain a home or small office network. Networking topics will include client/server application software configuration, network connectivity (cabling, switch and router configuration), basic IP addressing, network address translation and options for public internet access services. Security topics will include typical threats and responses, firewalls, host hardening, password management and virtual private networks. The course has a laboratory component where students apply wired and wireless technologies to design and administer a small network with various applications.

**ITGY 403: DATA ANALYSIS L: 2, P: 1 3 Credits**

Introduction to the basic concept of probability theory, common distribution functions, moments of distribution functions, the foundation of statistical analysis, sampling distribution of moments, statistical tests and procedures, linear regression and correlation analysis, the design of experiments, least squares. Laws of large numbers and the central limit theorem, Random Walk, Markov chains, introduction of Poisson process.

**ITGY 404: WEB DEVELOPMENT USING CONTENT MANAGEMENT SYSTEMS 3 Credits**

Through lectures and hands-on lab sessions, present web development techniques using content management systems (e.g. Joomla .net Nuke). Introduces characteristics of various types of websites (corporate portals, intranets and extranets; online magazines, newspapers, small

business websites). Presents methods, languages, tools related to web content management systems from an applied perspective. **L: 2, P: 1**

**ITGY 405: MOBILE AND PERVASIVE COMPUTING 3 Credits**

Definitions and motivation: mobile, pervasive and ubiquitous computing; physical interaction; theoretical foundations of pervasive computing: context-aware interaction, resource and device constraints; implementing pervasive systems: sensor, actuators, embedded systems, applications, programming languages and approaches, device types and choices; capturing needs and requirements for pervasive systems: techniques and challenges; multi-sensory communication using pervasive computing. Introduction to cloud computing technologies and its services. A practical application of mobile and cloud computing.

**ITGY 406: DATA AND APPLICATION SECURITY 3 Credits**

Introduces concept of data and application security. Discuss challenges of database and application and industrial control system security.

**ITGY 407: ENTERPRISE ARCHITECTURE 3 Credits**

Information technology infrastructure and the systems that support the operational, administrative and strategic needs of an organization. The design, selection implementation and management of enterprise information technology solutions. Frameworks and strategies for infrastructure management, distributed computing, middleware, legacy system integration, system consolidation, software selection, total cost of ownership calculation, information technology investment analysis and emerging technologies. Managing risk and security within audit and compliance standards.

**ITGY 408: WIRELESS COMMUNICATION AND NETWORKING 3 Credits**

Covers fundamental principles underlying wireless data communication. Topics include wireless transmission basics, radio propagation issues, antennas, digital modulation, spread spectrum techniques and their applications and popular standards: WiFi, WiMax and Bluetooth. Also presents practical knowledge to enable the design, testing, deployment, debugging and commissioning of WiFi, WiMax networks and point to point microwave systems. Discussion on cellular network technologies are also included.

**ITGY 409: SOCIAL AND PROFESSIONAL ISSUES IN IT 3 Credits**

Professional communication; teamwork concepts and issues; social context of computing – social informatics, social impact of information technology on society, online communities and social implications, philosophical context, diversity issues, gender related issues, cultural issues, accessibility issues, globalization issues, economic issues in computing and digital divide; intellectual property – foundations of intellectual property, ownership of information, plagiarism, software piracy, fair use, digital millennium copyright act, copyrights, patents, trademarks and trade secrets, international differences; legal issues in computing; organizational context; professional and ethical issues and responsibilities –relationships with professional societies, codes of professional conduct, ethics and history of ethics, whistle-blowing, workplace issues (harassment, discrimination).

**ITGY 410: INFORMATION STORAGE AND MANAGEMENT TECHNIQUES****3 Credits**

Provides an introduction to principles of information storage and management including the emerging field of virtualization technologies. Covers Direct Attached Storage(DAS), networked storage models such as Network Attached storage (NAS), Storage Area Network (SAN) and Content Addressed Storage (CAS); application in business continuity, replication, disaster recovery and cloud computing. Includes exposure to real world storage networking technologies.

**ITGY 411: MOBILE DEVELOPMENT****L: 2, P: 1 3 Credits**

Studies business-oriented applications for popular mobile platforms, including Blackberry, Android and Apple. Provides overview of mobile platforms, including evaluation, uses, design and development of applications.

**ITGY 413: DATABASE ADMINISTRATION****L: 2, P: 1 3 Credits**

Explores advanced concepts of database administration using enterprise-level database management system. Topics include: backup, recovery, corruption, automatic management, resource management, job scheduling, space management, memory management, storage management, diagnosis and corresponding tools.

**ITGY 415: NETWORK SECURITY II****3 Credits**

Detailed study of certain symmetric and asymmetric cryptographic schemes; analysis of network data (including “packet sniffing”) Security at different network layers (including IPSec, SSL/TLS and Kerberos); and secure e-commerce. Teaches principles of designing and testing secure networks, including use of network partitioning, firewalls, intrusion detection systems and vulnerability assessment tools.

**ITGY 417: COMPUTER CRIME, FORENSICS, AND AUDITING****3 Credits**

Covers computer crime, relevant laws, agencies and standards. Presents auditing login, forensics and related software. Explores legal principles such as chain of evidence, electronic document discovery, eavesdropping and entrapment. Students get hands-on experience with forensic tools.

**Courses Domicile in Department of Computer Science****COSC 111: INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMMING I****3 Credits**

As a fundamental course, this course provides students with a basic overview of computers and programming, and further equips them with theory and practice on problem solving techniques by using the structured approach on both Unix/Linux and Windows platforms. Students are to get experience/skills in C oriented tools and develop programs using C programming language to solve simple to moderate problems. The course covers the following: pre-processor directives, constants and variables, data types, input and output functions, code documentation techniques, control structures, functions and prototypes, arrays and pointers, among others. Other topics include file processing, input and output formatting. A number of programming exercises are assigned.

**L: 2, P: 1**

## **COSC 112: INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMING II**

**3 Credits**

This is a first course in computer programming using C++ programming language in both Windows and UNIX environment. The topics include C++ basic parts, problem solving, algorithm development, basic data types, control structures, functions, Searching, and Sorting, I/O Streams, Arrays Strings and Vectors, Pointers, Dynamic Memory, and basic Object Oriented Programming concepts, including Classes and Structures. A number of real world programming exercises are assigned.

**L: 2, P: 1**

## **COSC 203: OPERATING SYSTEM I**

**3 Credits**

Definition and types of operating system. Linkers, Loaders, Input/Output controllers, and concurrency. Memory management - use of relocation registers, paging, and segmentation for dynamic relocation, placement and replacement strategies, code and data sharing.

## **COSC 205: PROGRAMMING IN JAVA**

**L: 2, P: 1**

**3 Credits**

Basic concepts of Java at an introductory programming level, covering good programming practices and processes. Other topics include Data types and operations, Java Applets, and servlets, developing Java applications; control structures, methods arrays. Introduction to object-oriented programming techniques — classes, objects, constructors, encapsulation, strings and characters, graphics, basic Graphic User Interface (GUI) components, and multimedia. Introduction to Java utility package and bit manipulation, and Java database programming. A number of programming exercises are assigned. **Pre-requisite: COSC 112**

## **COSC 206: PROGRAMMING IN C/C++**

**L: 2, P: 1**

**3 Credits**

Comprehensive study of the C/C++ programming language - program methodology, algorithm development, basic data types, control structures, arrays, functions, searching and sorting; object paradigm including classes, inheritance, virtual functions, and templates; basic class concepts; constructors/destructors, operator overloads, inheritance, program style, program design, code documentation techniques, and program correctness (debugging); Procedural and Object Oriented Programming; file processing, introduction to stacks and queues and applications. Lab exercises. **Prerequisite: COSC112**

## **COSC 302: ALGORITHMS AND DATA STRUCTURES**

**3 Credit**

Basic Structures for data representation - Graphics and Network flows. Data definition languages. Sequential and linked storage allocation - linear lists, multi-linked structures, and String processing techniques. Trees - implementation, traversal and mathematical properties. Dynamic storage allocation, sorting and searching algorithms.

## **COSC 323: COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE**

**3 Credits**

Discussion of the basic computer architecture elements: gates, combinational and sequential logic, hardware arithmetic, CPU and memory structure. Examination of the languages of machines: representation of data, addressing techniques, symbolic coding, assembly, and linking. Problem solving using assembly language. **Pre-requisite: COSC203**

**L: 2, P: 1**

**COSC 423: ARTIFICIAL INTELLIGENCE AND APPLICATIONS 3 Credits**

Basic Artificial Intelligence (AI) issues. Intelligent agents. Problem solving as Search - strategies: Breadth first, depth first, uniform cost, depth constraint Satisfaction Problems, Backtracking Search For CSP, Constraint Propagation, Local search for CSPs. Logic-based knowledge representation. Application of AI techniques in natural languages scene analysis, expert systems, KBCS, robot planning. Laboratory exercises in an AI language.

**Courses Domiciled in Department of Software Engineering****SENG 102: INTRODUCTION TO WEB TECHNOLOGY AND DEVELOPMENT 3 Credits**

This course will provide a basic understanding of the methods and techniques of developing a simple to moderately complex web site. This will include installing and configuring web servers and clients. Using the current standard web page language, students will be instructed on production, marketing of web contents including multimedia, web publishing, and maintaining a simple web site. Use of Content Management System (CMS) will also be treated. Various software and languages-(HTML, XHTML, HTML5 CSS, JavaScripts, etc.) will be introduced. Students will design their own webpages and publish them on the Internet. All the skills will be applied to the development of e-commerce applications.

**Pre-requisite: None L: 2, P: 1**

**SENG 201: FUNDAMENTALS OF SOFTWARE ENGINEERING 3 Credits**

This course provides a general introduction to software engineering. It introduces concepts such as Requirements definition, analysis and modelling including use cases and use case paths, software development processes, agile methods and activities, domain models, state transition diagrams; techniques to increase robustness and avoid disastrous defects; object oriented architecture and design patterns and specifications in UML. Project estimating processes to determine who is going to do what, for how much, when and with what associated risks. Control and life-cycle management of correct, reliable, maintainable and cost effective software. Process Improvement. Software documentation. Configuration management. Planning for change. Managing expectations and contingencies Case studies provide practical examples for many of these concepts. **Pre-requisite: COSC 111**

**Certification Courses (in collaboration with New Horizon)****COSC 107: CONFIGURING CLIENT OPERATING SYSTEMS 1 Credit**

Installing Windows 10. Performing Post-Installation Configuration. Implementing Networking and Security. Managing Windows 10 with Group Policy. Managing Storage, Files, and Resources. Deploying and Managing Apps. Securing Windows 10. Implementing Remote Connectivity. Maintaining Windows 10. Recovering Windows 10.

**COSC 108, COSC 209: HARDWARE SYSTEM STUDIES I, II (A+) 2 Credit**

Hardware Fundamentals. Managing System Components. Managing Data Storage. Supporting Display Devices. Installing and Configuring Peripheral Components. Customized Client Environments. Supporting Printers and Multifunction Devices. Networking Technologies. Installing and Configuring Networking Capabilities. Supporting Mobile Digital Devices.

Operating System Fundamentals. Installing and Configuring Microsoft Windows. Optimizing and Configuring Microsoft Windows. Working with other Operating Systems. Networking and Security Fundamentals. Security Threats, Vulnerabilities, and Controls. Implementing Security Controls. Troubleshooting System-Wide Issues. Safety and Operational Procedures.

**COSC 222: FUNDAMENTALS OF COMPUTER SECURITY**

**1 Credit**

Certification Course

**COSC 305: SQL FUNDAMENTALS**

**1 Credit**

Identify the major components of Oracle Database 11g, Retrieve row and column data from tables with the SELECT statement, Create reports of sorted and restricted data, Employ SQL functions to generate and retrieve customized data, Run complex queries to retrieve data from multiple tables, Run data manipulation language (DML) statements to update data in Oracle Database 11g, Run data definition language (DDL) statements to create and manage schema objects.

**COSC 328: ANDROIDS**

**1Credit**

Explain the architectural framework of Android, installation process of Android SDK, composition of Android application framework, creating the UI for Android Application, Describes the views, layout, UI component, styles and themes, procedure for handling events, Shared Preferences Storage, Notification, Android security model, Google API, Explain Bluetooth, Network, Wi-Fi, and Sensors etc.

**COSC 430: HANDS ON JAVA TRAINING**

**1 Credit**

Explain the structured programming paradigm, the object-oriented programming paradigm, the features of Java as a OOP language , Describe Java platform and its components , Explain the steps to develop, compile, and execute Java program using IDE's, Describe primitive and reference data types, List the different types of decision-making statements, describe an array, String Builder, Wrapper classes, boxing, Describe inheritance types, Polymorphism, static and dynamic binding, virtual method invocation.

**COSC 409: DATABASE ADMIN WORKSHOP**

**1 Credit**

Certification course



## DEPARTMENT OF SOFTWARE ENGINEERING



*Professor Sunday A. IDOWU*  
*Head of Department*

### **STAFF LIST**

<b>IDOWU, Sunday A.</b> PhD, MSc, MS.,BSc	----	HOD/Professor of Comp. Science (Software Engineering)
JOSHUA, Jonah V. PhD, MSc., BSc.	---	Associate Professor of Comp. Science
MAITANMI, Stephen O.PhD., MSc, PGD.,HND	---	Senior Lecturer
ADEKOLA, Olubukola D.	---	Senior Lecturer
AJAYI, Wumi S., MSc,	---	Lecturer II
AYITE, Miriam I., MSc, BA	---	Lecturer II
ADETUNJI,Oluwatofunmi O., MSc., BSc.	---	Assistant Lecturer
OYENUGA, Ebenezer, MSc, BSc.	---	Assistant Lecturer

### **Adjunct Staff**

AWODELE Oludele,	BSc, PGD, MSc, PhD	---	Professor, Artificial Intelligence
OMOTOSHO Olawale J.,	PhD	---	Professor, Computer Engr. and Instrumentation
OKOLIE Samuel O.,	BSc, MSc, PhD	---	Professor, Computation
ADEKUNLE Yinka A.,	PhD	---	Professor, Computation
EZE Monday O.,	PhD	---	Associate Professor, Computer Science
KUYORO Afolashade O.,	PhD	---	Senior Leturer, Computer Science
AGBAJE, Monday O.,	BSc, PGD, MSc, PhD	---	Senior Lecturer, Computer Science
AJAYI, O.B.,	PhD, MSc, BSc (Sabbatical)	---	Senior Lecturer, System Programming

**Technical Support Staff**

MENSAH, Yaw A., MSc, BSc.

--- Programmer/Lab.Technologist

**Administrative Staff**

OLADIPO, Abiodun

--- Office Manager

**DEPARTMENTAL MISSION STATEMENT AND PHILOSOPHY****INTRODUCTION**

The fast growing trend in both research and applications of IT from the perspective of hardware and software demands that IT programs in Babcock University have to be purpose and market driven, and research based with a well-defined focus on providing solutions to contemporary problems in both industry and academics. The department of Software Engineering running BSc (Hons) Software Engineering is established to fulfill these noble goals.

**VISION**

It is the vision of the department to **perform world-class research in selected areas of relevance and provide quality, cutting-edge educational experiences to students, and** be a leader in IT

**MISSION**

The Department as an integral part of the School of Computing and Engineering Sciences of Babcock University strives to contribute to the mission of the Adventist Church by producing competent men and women experts in Software applications/solutions development and Maintenance adequately prepared to commit themselves to the service of God and play a disciplined and innovative part in research and development solutions across the world in IT.

**Objectives of the Degree Programme**

For the graduates of BSc (Hons) Software Engineering in the department to be globally competitive the following objectives are set

**a). Objectives**

1. Training students in analysis, applications and hands-on laboratory work.
2. Participate and contribute meaningfully in the design and implementation of information system architecture for any business organization that is IT-driven.
3. Apply standard development process and service oriented architecture (SOA) in the design of secure and scalable solutions to meet the present IT needs
4. Manage and maintain the IT resources of IT-driven organizations
5. Understand software standards for the purposes of system procurement and management.
6. Prepare students that can sit for relevant professional examinations and perform excellently.
7. Develop ability to design and construct a software system, component, or process to meet desired needs, within realistic constraints such as economic, environmental, social, political, ethical, health & safety, manufacturability, and sustainability.
8. Inculcate into the students to appreciate the spiritual values needed in the maintenance of Information Systems while considering security and privacy issues. Graduating Software

Engineering students from the department must have an understanding of their professional and ethical responsibilities.

9. Prepare students that can undergo graduate research study in relevant areas of research in software engineering to push forward the frontier of knowledge.

#### **b) Competencies and Skills**

The curriculum provides opportunities to develop in the student competencies and skills in the various components of the regime of knowledge. These include the following:

- (i) Ability to manipulate data in alternative forms to create deeper understanding.
- (ii) Use of relevant test and measurement equipment including assemblage and use of experimental laboratory/workshop activities; ability to estimate errors/accuracy of the use and development of software.
- (iii) Research for information to develop ideas further and working with limited or contradictory information.
- (iv).Use of information technology tools, including programming languages and a broad understanding of emerging technologies techniques.
- (v) Ability to apply software engineering techniques taking into account, industrial and commercial constraints, to learn independently and understand new concepts in the discipline.
- (vi) Competence in teamwork and leadership, solution provider particularly in Africa and the world at large.

### **ADMISSION REQUIREMENT**

The basic requirement for admission into the undergraduate programs is five credits at the SSCE Examination or equivalent in English Language, Mathematics, Physics, Chemistry and any other science subject. In addition, prospective candidates must sit for and pass UTME. Candidates with OND or HND may be granted direct entry into the programme.

### **GRADUATION REQUIREMENT**

- vii) O'level credit requirement for entry to the programme may be deferred (to be passed before graduation or before issuance of degree certification) for the following subjects (please list them, if any): Candidates awaiting results are allowed entry into the program and are only allowed to graduate after the results have been verified
- viii) Minimum number of Earned Credit Points for graduation: 172 credits
  - ii) Minimum No. of years for graduation: 4 years
  - iii) Minimum residency requirement in years, if any: 3 years
  - iv) Minimum CGPA for graduation: 2.50
  - v) Completion of industrial attachment Yes

### **Course Load Distribution**

<b>Level</b>	<b>General Education Courses</b>	<b>Departmental Core and Required Courses</b>	<b>Elective Courses</b>	<b>Certification Courses</b>	<b>Total</b>
<b>100</b>	<b>16</b>	<b>23</b>	<b>-</b>	<b>2</b>	<b>41</b>
<b>200</b>	<b>9</b>	<b>31</b>	<b>-</b>	<b>2</b>	<b>42</b>
<b>300</b>	<b>5</b>	<b>33</b>	<b>2</b>	<b>2</b>	<b>42</b>

<b>400</b>	<b>5</b>	<b>36</b>	<b>4/5</b>	<b>2</b>	<b>47/48</b>
<b>TOTAL</b>	<b>35</b>	<b>123</b>	<b>6/7</b>	<b>8</b>	<b>172/173</b>

**BSc. (Hons) SOFTWARE ENGINEERING  
100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTERS</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 131	Communication in English I	2	-
GEDS 112	Health Principles	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in A Global Culture	-	2
	<b>CORE COURSES</b>		
COSC 111,112	Introduction to Computer Science and Programming I,II	3	3
SENG 102	Introduction to Web Technology and Development	-	3
MATH 101,102	General Mathematics I , II	3	3
PHYS 101, 102	General Physics I, II	3	3
STAT 101	Introductory to Statistics	2	-
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 107	Configuring Clients Operating Systems	1	-
COSC 108	Hardware System Studies I (A+)	-	1
	<b>TOTAL (42)</b>	<b>20</b>	<b>22</b>

**BSc. (Hons) SOFTWARE ENGINEERING**  
**200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTERS	
		1 <sup>st</sup>	2 <sup>nd</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	
GEDS 200	Communication in French	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environmental and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution		2
	<b>CORE COURSES</b>		
SENG 201	Fundamentals of Software Engineering	3	-
SENG 202	Model-Based Software Engineering and Embedded Systems	-	3
SENG 203	Software Evolution and Maintenance	3	-
SENG 204	Software Security Engineering	-	3
SENG 206	Introduction to Professional Ethics and Practice	-	1
SENG 208	Software Engineering Economics	-	3
COSC 203	Operating System I	3	-
COSC 205	Programming in JAVA	3	-
COSC 226	Programming Techniques with VB.NET	-	3
ACCT 219	Accounting for Software Engineering	3	-
MATH 206	Discrete Mathematics	-	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 209	Hardware Systems Studies II(A+)	1	-
COSC 222	Fundamentals of Computer Security	-	1
	<b>TOTAL (46)</b>	<b>23</b>	<b>23</b>

**BSc. (Hons) SOFTWARE ENGINEERING  
200 LEVEL DIRECT ENTRY COURSES**

COURSE CODE	COURSE TITLE	SEMESTERS	
		1 <sup>st</sup>	2 <sup>nd</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	
GEDS 200	Communication in French	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environmental and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution		2
	<b>CORE COURSES</b>		
COSC 111	Introduction to Computer Science and Programming I	3	-
COSC 112	Introduction to Computer Science and Programming II	-	3
SENG 201	Fundamentals of Software Engineering	3	-
SENG 202	Model-Based Software Engineering and Embedded Systems	-	3
SENG 203	Software Evolution and Maintenance	3	-
SENG 204	Software Security Engineering	-	3
SENG 206	Introduction to Professional Ethics and Practice	-	1
SENG 208	Software Engineering Economics	-	3
COSC 203	Operating System I	3	-
COSC 205	Programming in JAVA	3	-
COSC 226	Programming Techniques with VB.NET	-	3
ACCT 219	Accounting for Software Engineering	3	-
MATH 206	Discrete Mathematics	-	3
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 209	Hardware Systems Studies II(A+)	1	-
COSC 222	Fundamentals of Computer Security	-	1
	<b>TOTAL (52)</b>	<b>26</b>	<b>26</b>

## BSc. (Hons) SOFTWARE ENGINEERING

### 300 LEVEL COURSES

3rd LEVEL COURSES			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>st</sup>	2 <sup>nd</sup>
GEDS 001, 002	Citizenship Orientation	S/U	S/U
GEDS 317	Religion and Social Ethics	3	-
GEDS 280	Leadership Skills		2
GEDS 312	Introduction to Family Life Education	-	2
	CORE COURSES		
SENG 302	Object Oriented Software Development	-	3
SENG 303	Introduction to Big Data Engineering	3	-
SENG 304	Software Requirements Engineering and Construction	-	3
SENG 307	Software Architecture and Design	3	-
SENG 360	Student Industrial Work Experience (SIWES)	-	6
COSC 323	Computer Organization and Assembly Language	3	-
COSC 302	Algorithms and Data Structures	-	3
COSC 309	Introduction to Operations Research	3	
COSC 333	Database Systems Design, Implementation and Management	3	-
ITGY 307	Linux System Administration	3	-
	*ELECTIVE COURSES		
SENG 309	Distributed Systems and the Internet	2	
COSC 335	Data Communication and Computer Networks	2	-
	INTERNATIONAL CERTIFICATION SUPPORT		
COSC 305	SQL Fundamentals	1	-
COSC 328	Androids	-	1
	TOTAL (44 Credits)	24	20

**SIWES: Six months of industrial exposure is mandatory from for all 300 Level Students in the Software Engineering Department.**

**\*Students are to select one elective course.**

## BSc. (Hons) SOFTWARE ENGINEERING

### 300 LEVEL DIRECT ENTRY COURSES

300 LEVEL DIRECT ENTRY COURSES			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>st</sup>	2 <sup>nd</sup>
GEDS 001, 002	Citizenship Orientation	S/U	S/U
GEDS 317	Religion and Social Ethics	3	-
GEDS 280	Leadership Skills		2
GEDS 312	Introduction to Family Life Education	-	2
	CORE COURSES		
SENG 302	Object Oriented Software Development	-	3
SENG 303	Introduction to Big Data Engineering	3	-
SENG 304	Software Requirements Engineering and Construction	-	3
SENG 307	Software Architecture and Design	3	-
COSC 205	Programming in Java	3	-
COSC 226	Programming Techniques with VB.NET	-	3
SENG 360	Student Industrial Work Experience (SIWES)	-	6
COSC 323	Computer Organization and Assembly Language	3	-
COSC 302	Algorithms and Data Structures	-	3
COSC 309	Introduction to Operations Research	3	
COSC 333	Database Systems Design, Implementation and Management	3	-
ITGY 307	Linux System Administration	3	-
	*ELECTIVE COURSES		
SENG 309	Distributed Systems and the Internet	2	
COSC 335	Data Communication and Computer Networks	2	-
	INTERNATIONAL CERTIFICATION SUPPORT		
COSC 305	SQL Fundamentals	1	-
COSC 328	Androids	-	1
	TOTAL (50 Credits)	27	23

**SIWES: Six months of industrial exposure is mandatory from for all 300 Level Students in the Software Engineering Department.**

**\*Students are to select one elective course.**



**BSc. (Hons) SOFTWARE ENGINEERING**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>st</sup>	2 <sup>nd</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation Course	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
GEDS 400	Introduction to Entrepreneurial Skills	2	-
	<b>CORE COURSES</b>		
SENG 401	Mobile Applications Design and Developments	3	-
SENG 402	Software Quality Engineering and Testing	-	3
SENG 404	Human Computer Interaction and Emerging Technologies	-	3
SENG 405	Software Project Management	3	-
SENG 406	Formal Methods Specifications in Software Engineering	-	3
SENG 407	Software Measurement and Metrics	3	-
SENG 409	Network Security and Software Development	3	-
SENG 411	Open Source Systems Development	3	-
SENG 412	Internet Technologies and Web Applications Development	-	3
SENG 490	Research Project	-	6
COSC 423	Artificial Intelligence and Applications	3	-
	<b>*ELECTIVE COURSES</b>		
SENG 408	Analysis, Design and Modelling of Real-Time Systems	-	2
SENG 413	Current Trends in Software Engineering	2	-
SENG 414	Cloud Computing Technologies	-	2
COSC 408	Modelling and Simulations	-	3
ITGY 400	Reverse Engineering and Malware Analysis	2	-
	<b>INTERNATIONAL CERTIFICATION SUPPORT</b>		
COSC 409	Database Admin Workshop	1	
COSC 430	Hands-On-JAVA training	-	1
	<b>TOTAL (46/47)</b>	<b>23</b>	<b>23/24</b>

**\*Students are expected to select ANY 1 elective course per semester.**

## **BSc. (Hons) SOFTWARE ENGINEERING**

### **COURSE DESCRIPTIONS**

#### **COMPUTER SCIENCE COURSES: DEPARTMENT OF COMPUTER SCIENCE**

##### **COSC 107: CONFIGURING CLIENT OPERATING SYSTEMS 1 Credit**

Installing Windows 10. Performing Post-Installation Configuration. Implementing Networking and Security. Managing Windows 10 with Group Policy. Managing Storage, Files, and Resources. Deploying and Managing Apps. Securing Windows 10. Implementing Remote Connectivity. Maintaining Windows 10. Recovering Windows 10. **Pre-requisite:** NONE

##### **COSC 108: HARDWARE SYSTEM STUDIES I (A+) 1 Credit**

Hardware Fundamentals. Managing System Components. Managing Data Storage. Supporting Display Devices. Installing and Configuring Peripheral Components. Customized Client Environments. Supporting Printers and Multifunction Devices. Networking Technologies. Installing and Configuring Networking Capabilities. Supporting Mobile Digital Devices. Operating System Fundamentals. Installing and Configuring Microsoft Windows. Optimizing and Configuring Microsoft Windows. Working with other Operating Systems. Networking and Security Fundamentals. Security Threats, Vulnerabilities, and Controls. Implementing Security Controls. Troubleshooting System-Wide Issues. Safety and Operational Procedures.

**Pre-requisite:** NONE

##### **COSC 111: INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMMING I 3 Credits**

As a fundamental course, this course provides students with a basic overview of computers and programming, and further equips them with theory and practice on problem solving techniques by using the structured approach on both Linux and Windows platform. Students are to get experience/skills in C oriented tools and develop programs using C programming language to solve simple to moderate problems. The course covers the following: pre-processor directives, constants and variables, data types, input and output functions code documentation techniques, control structures, functions and prototypes, arrays and pointers, strings and structures. Other topics include character and strings, structures. File processing, character and strings, input & output formatting, structures. File processing. A number of programming exercises are assigned.

**Pre-requisite:** None

**L: 2, P: 1**

## **COSC 112: INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMING II**

**3 Credits**

This is a first course in computer programming using C++programming language in both Windows and UNIX environment. The topics include C++ basic parts, problem solving, algorithm development, and Basic data types, Control Structures, Functions, Searching and Sorting. I/O Streams, Arrays. Strings and Vectors. Pointers, Pointers and Dynamic Memory. Basic Object Oriented Programming Concepts- Classes and Structures. Using Classes. Expanding Classes. Some real world applications. **Pre-requisite:** None **L: 2, P: 1**

## **COSC 226: PROGRAMMING TECHNIQUES WITH VB.NET**

**3 Credits**

Introduction to Visual Studio.NET and VB.NET. Basic concepts in VB.NET programming. Development algorithms. Data types and variables.VB.NET operators and expressions. Output formatting. Control structures. Classes, methods and properties, arrays. Inheritance and exceptions in VE.NET. Windows forms and event handling. Dialog boxes, using controls. Database programming and applications. Practical applications with real world Cases.

**Pre-requisite:** COSC 111 or COSC 112

**L: 2, P: 1**

## **COSC 203: OPERATING SYSTEM I**

**3 Credits**

Definition and types of operating system; linkers, loaders, Input/ output controllers, concurrency; memory management; use of relocation register, paging, and segmentation for dynamic relocation fetch; placement and replacement strategies; code and data sharing.

## **COSC 205: PROGRAMMING IN JAVA**

**3Credits**

Basic concepts of Java at an introductory programming level, covering good programming practices and process, syntax. Other topics include Data types and operations. Java Applets, servlets. Developing Java applications, control structures, methods arrays, Introduction to object-oriented programming techniques,—classes, objects, constructors, encapsulation .strings and characters, graphics, basic GUI components, multimedia. Java utility package and bit manipulation. Introduction to Java database programming. Various projects are developed.

**Pre-requisite:** COSC111 or COSC112

**L: 2, P: 1**

## **COSC 209: HARDWARE SYSTEM STUDIES II (A+)**

**1 Credit**

Hardware Fundamentals. Managing System Components. Managing Data Storage. Supporting Display Devices. Installing and Configuring Peripheral Components. Customized Client Environments. Supporting Printers and Multifunction Devices. Networking Technologies. Installing and Configuring Networking Capabilities. Supporting Mobile Digital Devices. Operating System Fundamentals. Installing and Configuring Microsoft Windows. Optimizing and Configuring Microsoft Windows. Working with other Operating Systems. Networking and Security Fundamentals. Security Threats, Vulnerabilities, and Controls. Implementing Security Controls. Troubleshooting System-Wide Issues. Safety and Operational Procedures.

**Pre-requisite:** COSC 108

## **COSC 222: FUNDAMENTALS OF COMPUTER SECURITY**

**1 Credit**

Foundations of security. Securing operating systems. Protecting systems using antivirus. Data encryption. Data backup and recovery. Internet security. Securing network connections, online transactions, and e-mail communications. Social Engineering and identity theft. Security on social media sites. Securing mobile devices. **Pre-requisite: COSC 107**

### **COSC 302: ALGORITHMS AND DATA STRUCTURES**

**3 Credits**

Basic Structures for data representation - Graphics and Network flows. Data definition languages. Sequential and linked storage allocation: - for linear lists, multi-linked structures String processing techniques. Trees - implementation, traversal and mathematical properties. Dynamic storage allocation, sorting and Searching algorithms. **L: 2, P: 1**

**Pre-requisite: COSC 226**

### **COSC 305: SQL FUNDAMENTALS**

**1 Credits**

Identify the major components of DBMS. Retrieve row and column data from tables with the SELECT statement, Create reports of sorted and restricted data, Employ SQL functions to generate and retrieve customized data, Run complex queries to retrieve data from multiple tables, Run data manipulation language (DML) statements to update data in Oracle Database 11g, Run data definition language (DDL) statements to create and manage schema objects.

**Pre-requisite: NONE**

### **COSC 309: INTRODUCTION TO OPERATIONS RESEARCH**

**3 Credits**

General Introduction. Decision Theory (naive and expected value methods); Linear Programming (graphical, algebra, and simplex methods); Inventory (deterministic and stochastic models); Project Management (Critical Path Analysis and Program Evaluation & Review Technique); Transportation Problem.

### **COSC 335: DATA COMMUNICATION AND COMPUTER NETWORKS**

**2 Credits**

Data communication concepts; network topologies; transmission media; network access control; communication protocols; network architecture; LANs, MANs, and WANs; internetworking, network services Software Defined Networks (SDNs), programmable routers and overlay networks, wireless and mobile networking.

**Pre-requisite: SENG 102**

### **COSC 323: COMPUTER ORGANIZATIONS AND ASSEMBLY LANGUAGE**

**3Credits**

Discussion of the basic computer architecture elements: gates, combinational and sequential logic, hardware arithmetic, CPU and memory structure. Examination of the languages of machines: representation of data, addressing techniques, symbolic coding, assembly, and linking. Problem solving using assembly language.

**Pre-requisite: COSC 203** **L: 2, P: 1**

### **COSC 328: ANDROID**

**1Credit**

Explain the architectural framework of android, installation process of Android SDK, composition of Android application framework, creating the UI for Android Application, Describes the views, layout, UI component, styles and themes, procedure for handling events,

Shared Preferences Storage, Notification, Android security model, Google API, Explain Bluetooth, Network, Wi-Fi, and Sensors etc. **Pre-requisite: COSC 203**

**COSC 430: HANDS-ON-JAVA TRAINING 1 Credit**

Explain the structured programming paradigm, the object-oriented programming paradigm, the features of Java as a OOP language, Describe Java platform and its components, Explain the steps to develop, compile, and execute Java program using IDE's, Describe primitive and reference data types, List the different types of decision-making statements, describe an array, String Builder, Wrapper classes, boxing, Describe inheritance types, Polymorphism, static and dynamic binding, virtual method invocation

**COSC 408: MODELLING AND SIMULATIONS 3 Credits**

The concepts and techniques used in modelling and simulation methodology. Definition and uses of simulation, stochastic processes, discrete simulation languages, detailed study of a chosen simulation language and applications, Laboratory exercises

**COSC 409: DATABASE ADMIN WORKSHOP 1 Credits**

Exploring the Oracle Database Architecture, Preparing the Database Environment, Creating an Oracle Database, Managing Database Instances, Managing ASM Instances, Configuring the Oracle Network Environment, Managing Database Storage Structures, Administering User Security, Managing Data Concurrency, Managing Undo Data, Implementing Oracle Database Auditing, Database Maintenance, Performance Management, Backup and Recovery Concepts, Performing Database Backups, Performing Database Recovery, Moving Data, Working with Support. **Pre-requisite: COSC 305**

**COSC 423: ARTIFICIAL INTELLIGENCE AND APPLICATIONS 3 Credits**

Basic AI issues. Intelligent agents; Problem solving as Search; Search strategies: Breadth first, depth first, uniform cost, depth constraint Satisfaction Problems, Backtracking Search For CSP, Constraint Propagation, Local search for CSPs. Logic-based knowledge representation. Application of AI techniques in natural languages scene analysis, expert systems, KBCS, robot planning. Laboratory exercises in AI languages e.g. LISP/Prolog.

**ITGY 307: LINUX SYSTEM ADMINISTRATION 3 Credits**

This course will focus on practical issues in Linux system administration to provide students with skills and capabilities to work as a system administrators: Deployment and Installation, general system administration-user and group administration, basic Linux commands, booting up and shutting down, software management. Linux shell utilities, file system management, core system daemon, kernel and compilation concepts. Networking: TCP/IP and network configuration, local and network security with applications of Internet protocols like HTTP, SMTP, and DNS.

**Pre-requisite: COSC 203**

**L: 2, P: 1**

**SOFTWARE ENGINEERING COURSES: DEPARTMENT OF SOFTWARE ENGINEERING**

**SENG 102: INTRODUCTION TO WEB TECHNOLOGY AND DEVELOPMENT**

### **3 Credits**

This course will provide a basic understanding of the methods and techniques of developing a simple to moderately complex web site. This will include installing and configuring web servers and clients. Using the current standard web page language, students will be instructed on production, marketing of web contents including multimedia, web publishing, and maintaining a simple web site. Use of Content Management System (CMS) will also be treated. Various software and languages-(HTML, XHTML, HTML5 CSS, JavaScripts etc.) will be introduced. Students will design their own webpages and publish them on the Internet. All the skills will be applied to the development of e-commerce applications. **Pre-requisite: None** **L: 2, P: 1**

### **SENG 201: FUNDAMENTALS OF SOFTWARE ENGINEERING 3 Credits**

This course provides a general introduction to software engineering. It introduces concepts such as Requirements definition, analysis and modeling including use cases and use case paths, software development processes, agile methods and activities, domain models, state transition diagrams; techniques to increase robustness and avoid disastrous defects; object oriented architecture and design patterns and specifications in UML. Project estimating processes to determine who is going to do what, for how much, when and with what associated risks. Control and life-cycle management of correct, reliable, maintainable and cost effective software. Process Improvement. Software documentation. Configuration management. Planning for change. Managing expectations and contingencies Case studies provide practical examples for many of these concepts. **Pre-requisite: COSC 111**

### **SENG 202: MODEL-BASED SOFTWARE ENGINEERING AND EMBEDDED SYSTEMS 3 Credits**

This course consists of two parts. **First part:** An introduction to analysis and design of software architectures with UML (Unified Modelling Language) and their subsequent synthesis at the program level. Topics include use-case driven requirements analysis, analysis and design of static and dynamic behaviors of software architectures and model driven code engineering. Design patterns are introduced and applied as reusable solutions to recurring design problems. Students are familiarized with framework-based component reuse, event-driven programming. **Second Part:** Characteristics and design of embedded systems. **Pre-requisite: COSC 112**

### **SENG 203: SOFTWARE EVOLUTION AND MAINTENANCE 3 Credits**

This course covers fundamental aspects of software evolution and maintenance, including concepts and techniques, process models for system evolution, and software maintenance case studies. Introduces problems and solutions of long-term software maintenance/evolution and large-scale, long-lived software systems. Topics: Taxonomy of software maintenance and evolution, evolution and maintenance models, reengineering, legacy information systems, impact analysis, refactoring, program comprehension, principles of reuse and reverse engineering, approaches and tools used to extract information from existing software systems.

### **SENG 204: SOFTWARE SECURITY ENGINEERING 3 Credits**

This course is about the design and implementation of secure software. Topics include requirements engineering for secure software; Secure software architecture & design, secure coding & testing; system assembly challenges; and governance & managing. The course also discuss security models and protocols, security in the cloud-- access control, multilevel security, risk management, physical and environmental security, application security, e-services security, human aspects and business continuity planning, authentication, certification and accreditation,. Policy and legal issues are also covered. **Pre-requisite: None**

### **SENG 206: INTRODUCTION TO PROFESSIONAL ETHICS AND PRACTICE 1 Credit**

This course is concerned with the following topics :Social context of computing, Methods and tools of analysis of ethical argument Professional and ethical responsibilities, Risks and liabilities of safety-critical systems, Intellectual property, Privacy and civil liberties, Social implications of the Internet, Computer crime and Philosophical foundations of ethics.

### **SENG 208: SOFTWARE ENGINEERING ECONOMICS 3 Credits**

Software Engineering Economics are about making decisions related to software engineering in a business context. Success of any software engineering project is partly dependent on effective business management. Software engineering economics provides a way to examine the attributes of software and software processes in a systematic way that relates them to economic measures. These can be weighted and analyzed when making decisions within the scope of a software engineering project and its organization. The essence of software engineering economics is aligning software technical decisions with the business goals of the organization. This course examines the key aspects of software engineering economics, including life cycle economics; risk and uncertainty; economic analysis methods and practical considerations, which tie concept and theory to contemporary software economic realities. **Pre-requisite: None**

### **SENG 302: OBJECT ORIENTED SOFTWARE DEVELOPMENT 3 Credits**

This course presents the concepts, methods and techniques necessary to efficiently capture software requirements in use cases and transform them into detailed designs. It combines instruction on the Unified Software Development Process (UP), object-oriented methodologies and the Unified Modeling Language (UML 2.0). In this hands-on course, students learn how to apply the UML notation in the context of an iterative, use case-driven, architecture-centric process. They are also exposed to CASE tool that allows the rapid development of UML diagrams (e.g., use case diagrams, class diagrams, object diagrams, interaction diagrams, state charts, activity diagrams, etc.) and promotes an agile workflow by synchronizing changes in the various models and the code. **Pre-requisite: COSC 112 or COSC 205 L: 2, P: 1**

### **SENG 303: INTRODUCTION TO BIG DATA ENGINEERING 3 Credits**

The main goal of this course is to help students learn, understand, and practice big data analytics and machine learning approaches, which include the study of modern computing big data technologies and scaling up machine learning techniques focusing on industry applications. Mainly the course topics will include: Data reporting, visualization conceptualization and summarization of big data and machine learning, trivial data versus big data. Use of Advanced Microsoft Excel. Introduction to big data computing technologies, NoSQL with MongoDB. Apache Hadoop architecture development and administration. Practical Data Migration, Analytics and Governance. Hands on Project. **L: 2, P: 1**

## **SENG 304: SOFTWARE REQUIREMENTS ENGINEERING AND CONSTRUCTION**

**3 Credits**

This course describes the role of requirements in the construction and continued maintenance of large, complex and evolving software systems. It introduces the important concepts and activities in systems requirements engineering, explains how they can knit together to form a through-life requirements engineering process, and demonstrates how such an end-to-end process can be defined and used in practice. The course also provides a broad overview of the notations, techniques, methods and tools that can be used to support the various requirements engineering activities, and complements this with the opportunity to gain experience in a selection of these. Finally, it seeks to illustrate the wider applicability of requirements engineering to everyday projects, the breath of skills required and the many contributing disciplines.

**Pre-requisite: SENG 201**

**L: 2, P:1**

## **SENG 307: SOFTWARE ARCHITECTURE AND DESIGN**

**3 Credits**

The purpose of this course is to provide knowledge and expose students to the activities in software design covering design conceptualizations, strategies, architectures, human interfaces, design methods and tools. Topics include Software Design Concepts and Strategies, Software Architectural design and Patterns, and Software Design Evaluation and Metrics

**Pre-requisite: SENG 201 or SENG 204**

**L: 2, P: 1**

## **SENG 309: DISTRIBUTED SYSTEMS AND THE INTERNET**

**2 Credits**

The course introduces the main principles underlying distributed systems: processes, communication, naming, synchronization, consistency, fault tolerance, and security. Students will be familiar with some of the main paradigms in distributed systems: object-based systems, file systems, web-based and coordination-based systems. On the completion of the unit, students will understand the fundamentals of distributed computing and be able to design and develop distributed systems and applications.

## **COSC 333: DATABASESYSTEMS DESIGN, IMPLEMENTATION AND MANAGEMENT**

**3 Credits**

This course introduces the basic concepts of data management and guides towards the concepts of its application--Information management applications, capturing and representation, storage and retrieval. This course will focus on database systems design, implementation, security, transaction and administration since database plays a critical role in today's business environment. A basic introduction using Microsoft Access will be presented. **Logical organization of databases:** the entity relationship model. Relational database concepts, database design, modeling and normalization; the use of Structured Query Language to define, manipulate and test database. The course also provides an understanding of new developments and trends such as Web database environment and data warehousing. Includes group projects.

**Pre-requisite: COSC 111 or COSC 205.**

**L: 2, P: 1**

## **SENG 360: STUDENT INDUSTRIAL WORK EXPERIENCE**

**6 Credits**

6 Months of Industrial Exposure is mandatory at the end of 300Level (during the long vacation) for all students in the Software Engineering Department



**SENG 401: MOBILE APPLICATIONS DESIGN AND DEVELOPMENTS 3 Credits**

The course focuses on how to develop applications for mobile devices, including smartphones and tablets. Students are introduced to the survey of current mobile platforms, mobile application development environments, mobile device input methods, as well as developing applications for two popular mobile platforms. Students will design and build a variety of Apps throughout the course to reinforce learning and to develop real competency. **Pre-requisite: SENG 102**

**SENG 402: SOFTWARE QUALITY ENGINEERING AND TESTING 3 Credits**

This course provides basic introduction to software quality assurance and testing. It discusses issues, processes and techniques in software quality assurance. The course will teach how to apply quality assurance and testing techniques in different activities of software development and maintenance. **Pre-requisite: SENG201**

**SENG 404: HUMAN COMPUTER INTERACTION AND EMERGING TECHNOLOGIES 3 Credits**

The course covers three broad categories of topics within human-computer interaction:

- (a) The principles and characteristics of the interaction between humans and computers;
  - Foundation of HCI
  - Models and theories of HCI
- b) The techniques for designing and evaluating user-centered systems
  - Design and software process
- c) Emerging technologies trends-research and development in HCI
  - HCI in mobile applications
  - Web interface design

**Pre-requisite: SENG 201 L: 2, P: 1**

**SENG 405: SOFTWARE PROJECT MANAGEMENT 3 Credits**

This course addresses software project planning, cost estimation and scheduling, project management tools, factors influencing productivity and success. Students will also learn productivity metrics, analysis of options and risks, software process standards and process implementation, software contracts and intellectual property and approaches to maintenance and long term software development. **Pre-requisite: SENG 201**

**SENG 406: FORMAL METHODS SPECIFICATIONS IN SOFTWARE ENGINEERING 3 Credits**

Introduction to FMs used in software engineering. Elements of discrete mathematics, formal mechanisms for specifying and verifying the correctness, reliability and efficiency of software systems, finite state machines, regular expression, assertions, algebraic and model based specification techniques including case studies (prerequisites include knowledge of modern programming languages, data structures, algorithms and discrete structures).

**Pre-requisite: MATH 206 L: 2, P: 1**

**SENG 407: SOFTWARE MEASUREMENTS AND METRICS 3 Credits**

In this course students will be introduced to the principles and concepts relevant to measurement in software engineering including the representational theory of measurement, collection, analysis and validation of data. Topics include software sizing metrics, complexity and testing

metrics, Case Study for the usage of complexity metrics with tools, Case Study to apply Testing metrics, customer satisfaction analysis and objected oriented metrics, software quality metrics, and assessment and process improvement. **Pre-requisite: SENG 201 OR SENG 203**

### **SENG 408: ANALYSIS, DESIGN AND MODELLING OF REAL-TIME SYSTEMS**

**2 Credits**

This course equips the students with knowledge in embedded real time systems and real time software development particularly on how software engineering approaches assist real time software development. The knowledge units for this course emphasize the following topics; real time concepts, embedded real time development methodologies, real time operating systems, embedded real time hardware fundamental and real time analysis. The objective of this course is to introduce students with key software engineering practices in real time software development and give practical experience to the students in developing embedded real time software using appropriate software methods and tools. **Pre-requisite: SENG 201**

### **SENG 409: NETWORK SECURITY AND SOFTWARE DEVELOPMENT 3 Credits**

The course is to prepare software engineers to develop a secure software by incorporating security practices associated with information, systems and networks in all phases of the software development life cycle.

Topics: Introduction to information security and policies, fundamentals of cryptography- security techniques in information and networks, fundamental concepts of encryption and decryption, cryptographic protocols, techniques and algorithms. Basic concepts of Security services

**Pre-requisite: MATH 214 or SENG 204**

### **SENG 411: OPEN SOURCE SYSTEMS DEVELOPMENT**

**3 Credits**

In this course, we will examine issues associated with Open Source technologies. The course will examine the following characteristics of key Open Source technologies (including, but not limited to, Linux, MySQL, and Apache); the nature of Open Source communities and development processes, and the evolving structure of the Open Source industry. In each case, the focus will be on understanding the implications for businesses interested in making use of Open Source technologies. **Pre-requisite: SENG 201**

### **SENG 412: INTERNET TECHNOLOGIES AND WEB APPLICATIONS DEVELOPMENT**

**3 Credits**

This course provides students with knowledge and skills in Internet technologies, Web programming-- server side web development technologies along with the advances features, methods and tools needed to add interactivity to rich Internet applications. The course also explores analysis and design of enterprise Internet applications solutions interacting with databases, and e-commerce technologies. The course is aimed at preparing students to become Internet project architects, with expertise in developing Internet-based software applications such as e-commerce applications and specialized intranet solutions. Details are provided in the course schedule. **Pre-requisite: SENG 102 L: 2, P: 1**

### **SENG 413: CURRENT TRENDS IN SOFTWARE ENGINEERING**

**2 Credits**

Current Techniques, methods, procedures and Paradigms of software engineering are studied. Students perform literature searches prepare written and oral reports on current software engineering practices.

#### **SENG 414: CLOUD COMPUTING TECHNOLOGIES 2 Credits**

The course aims to provide students the concept of Cloud Computing Technology. The concept of Cloud Infrastructure, Virtualized Computing, Virtualized Storage, Virtualized Networking, Virtualized Desktop and Applications will be discussed in details. Cloud Business Continuity model and computing primer models, management and security are covered.

**Pre-requisite: SENG309 or COSC335**

#### **ITGY 400: REVERSE ENGINEERING AND MALWARE ANALYSIS 2 Credits**

This course provides students a foundational knowledge about reverse engineering and malware analysis, through the study of various cases and hand-on analysis of malware samples. It covers fundamental concepts in malware investigations so as to equip the students with enough background knowledge in handling malicious software attacks. Various malware incidents will be covered, such as cases in Ransomware, banking-trojan, state-sponsored and APT attacks, cases in Stuxnet and malicious software attacks on Industrial Control System and IoT devices. With the experience of studying these cases and analyzing selected samples, the students will be able to understand the global cyber security landscape and its future impact. Hands-on exercises and in-depth discussion will be provided to enable students to acquire the required knowledge and skill set for defending and protecting an enterprise network environment.

**Pre-requisite: COSC 111 or SENG 204**

#### **SENG 490: RESEARCH PROJECT 6 Credits**

Independent research into selected areas of software engineering under the supervision of designated academic staff. Students will be required to carry out literature survey on the topics, design and create artefact, and produce short reports (preferably at the end of second semester). Students will be subjected to both seminar and oral examination on the projects

#### **SOFTWARE DEVELOPMENT TOOLS REQUIREMENTS**

This following presents a detailed description of software development tools requirements for our BSc. Software Engineering degree program. Some of the tools are available as open source while it is in our plan to acquire the ones not presently available.

##### **A-Software Engineering Laboratory**

**Software Development Tools Requirements:** The software development tools can be categorized as follows-

- a) Programming Language Tools
- b) Database Tools for Software Development
- c) Analysis and Design Tools
- d) Web and Mobile Applications Development Tools
- e) Software Configuration Management(SCM) Tools
- f) Testing Tools

a) **Programming Language Tools:** These are tools that provide comprehensive support for building quality software product and also have features for simulation and testing. These tools

include Integrated Development Environments (IDEs), in-built modules library and Simulation Tools.

Examples of Programming, Scripting and Mark-up Languages- C,C++,JAVA,PHP, PYTHON, JavaScripts, AJAX,Node.js,XHTML and HTML5.

**Note:** The compilers and the environments for all of these are readily available.

Examples of IDEs and Editors-

Editors

-Sublime Text Editors

-Atom

IDEs

-Eclipse

-IntelliJ

Java Development

-Netbeans

**Note:** Some of these are to be acquired while some are open source.

b) **Database Tools for Software Development:** Most of the Web and Mobile applications are driven by a database, even a number of Desktop applications run on a database. Thus, the students are exposed to a variety of DBMS (both desktop and server-based).

Examples:

LICENSED: **Desktop**-Microsoft Access (Microsoft Office)

*Server-based*-Oracle, SQL Server

OPEN-SOURCE: MySQL/MariaDb, PostgreSQL and a number of others

**Note:** Some of these are available

c) **Analysis and Design Tools:** Software analysis and design include all activities which help the transformation of requirement specifications into implementation. This helps human-readable requirements to be transformed into actual Codes.

**Tools:** CASE Tools, Microsoft Visio (Windows), Balsamiq (Windows and Mac)

d) **Web and Mobile Applications Development Tools:** These tools are used in designing web pages with all allied elements.

Examples: Bootstrap, Kendo UI, Fontello and Foundation 3 and others.

**Note:** These tools are to be acquired.

e) **Software Configuration Management (SCM) Tools:** These are used in administering source code, building software, install packaging, defect tracking change management and managing software configuration.

**Examples:** Since not a single software can achieve all of these, then we have the following categories

- Software Build Tool
- Software Installation Tool
- Software Tracking Tool

f) **Testing Tools:** Software testing is the process of evaluating a software product to detect differences between given input and expected output.

**Tools:** TestComplete, Ranorex, Tosca Testsuite and some other ones which may not be listed.

Note: These tools are to be updated with time and as necessary.

**SCHOOL OF EDUCATION AND HUMANITIES**



***Abiodun A. ADESEGUN, Ph.D***  
**DEAN**



**Alexander A. AKALAWU**  
**SCHOOL OFFICER**

### **GENERAL EDUCATION COURSES**

<b>CODE</b>	<b>COURSES</b>	<b>SEMESTER</b>		<b>EXEMPTION</b>
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>	
GEDS 001, 002	Citizenship Orientation A	0	0	
GEDS 101	Philosophy of Christian Education	2	-	-
GEDS 105	Use of Library and Study Skills	2	-	IRM
GEDS 107	Introduction to General Psychology	2	-	GCPY
GEDS 112	Health Principles	-	2	NRSG,PHSC, Medical Programmes
GEDS 120	ICT Fundamentals and Office Productivity Management	2	2	CS, IT & SENG
GEDS 126	Life and Teachings of Jesus the Messiah	-	3	Religious Studies
GEDS 131, 132	Communication in English I, 11	2	2	English and Mass Comm.
GESD 134	Nigerian People in a Global Culture	-	2	History, Pol. Sc., Pub. Admin., LSS
	<b>200 LEVEL</b>			
GEDS 200	Communication in French	2	2	FREN, HIST, PLSC,

				ILD,PBAD
GEDS 204	Logic and Critical Thinking (SMS, EAH)	-	2	PLSC, PBAD, ILDP & LSS
GEDS 215	Fundamentals of Christian Faith	3	-	Religious Studies
GEDS 221	Introduction to Agriculture	2	-	AIT only
GEDS 222	History and Philosophy of Science	-	2	EAH, SMS, VASSS
GEDS 260	<b>Environment and Sustainable Development</b>	2	2	LAW
GEDS 270	<b>Peace and Conflict Resolution</b>	2	2	LAW
<b>GEDS 280</b>	<b>Leadership Skills</b>	2	2	-
GEDS 290	Spreadsheet and Digital Presentations	2	2	CES
	<b>300 LEVEL</b>			
GEDS 310	E-Customer Relationship Management	2	2	CES
GEDS 312	Introduction to Family Life Education	-	2	Social Works
GEDS 317	Religion and Social Ethics	3	-	Religious Studies
	<b>400 LEVEL</b>			
GEDS 400	Introduction to Entrepreneurial Skills	2	2	Business Admin.
GEDS 440	E-Project Management and Simulation	2	2	
GEDS 420	Biblical Principles in Personal and Professional Life	3	3	-
GEDS 430	Character Formation and Spiritual Growth (AIT, LSS, NURS, MLSC)	3	3	

\* Number of credits would not count towards graduation

\* A minimum of C grade to qualify Communication in English 1

\*\* A minimum of D grade to pass

#### NOTE:

1. Students need not take the pre-determined General Education courses related to their programmes of study to avoid duplication. They must, however make up the number of credits required by taking other specified General Education or Elective courses outside their department or school.

2. Provisions in this document apply only to the current bulletin. Students enrolled prior to this date are to comply with the provisions of the bulletin under which they were admitted, excepting special cases of interrupted enrolment as will be permitted by the School/Senate.

3 It is important to note that General Education courses are not optional but prerequisites for graduation. All departments must ensure strict compliance in advising their students.

- 4      Citizenship Orientation is compulsory for citizenship but not computed with semester academic load since it is scored “S” or “S”.

## **GENERAL EDUCATION COURSE DESCRIPTIONS**

### **GEDS 001, 002:      CITIZENSHIP ORIENTATION      0, 0**

These are non-credit, but mandatory seminars where students are mentored in all aspects of Christian life. It discusses many topics with the hope of modeling best moral practices on students. Students received either a satisfactory or unsatisfactory grade at the end of the semester.

### **GEDS 101:      PHILOSOPHY OF CHRISTIAN EDUCATION      2 Credits**

A study of the efforts of philosophy to provide answers to major human problems and the scriptural principles and philosophical basis of Christian education with particular emphasis on the Seventh-day Adventist educational system.

### **GEDS 105:      USE OF LIBRARY AND STUDY SKILLS      2 Credits**

This course discusses the Importance of Library as a source of information, the history of libraries, modern trends in library practices and application of computer in library operations. Emphasis is also given to circulation, filing/shelving, shelf reading cataloguing and classification.

### **GEDS 107:      INTRODUCTION TO GENERAL PSYCHOLOGY      2 Credits**



A survey of the major fields of interest in psychology including the following: Biological basics of behavior, sensation, perception and states of consciousness, learning, memory, motivation, emotion, personality, health psychology, abnormal behaviour, sexuality, intelligence and applied psychology.

**GEDS 112: HEALTH PRINCIPLES 2 Credits**

An introduction to the meaning and scope of health and well being. The principles of health promotion through simple preventive strategies will be discussed. Students will be acquainted with current trends in health knowledge and healthful living. Each student will be encouraged in some form of physical activities that should promote health.

**GEDS 126: LIFE AND TEACHINGS OF JESUS THE MESSIAH 3 Credits**

This course focuses on the Man, Mission, and Ministry of Jesus Christ as reflected in the parables, miracles and other teachings of Jesus, recorded in the gospels. It presents Jesus Christ as a historical figure whose timely entrance into the world shaped human history, and seeks to acquaint the students with the uniqueness and exemplary nature of His incarnation, life, mission and teachings. Further, it examines and seeks to establish the incarnation, ministry, death and resurrection of Christ as the only basis for human reconciliation with God, hope for humanity, and of eternal life through faith. It also presents the teachings of Christ as the centre and theme of genuine and quality Christian living, and as principles and conditions for entrance into God's Kingdom.

**GEDS 131, 132: COMMUNICATION IN ENGLISH I, II (2, 2 Credits)**

Effective communication and writing in English Language skills, writing of essays, answers, comprehension, sentence construction, outlines and paragraph, collection and organization of materials and logical presentation, punctuation.

Logical presentation of papers, phonetics, instruction on lexis, art of public speaking and oral communication figures of speech, précis, report writing.

**GEDS 134: NIGERIAN PEOPLE IN GLOBAL CULTURE 2 Credits**

Study of Nigerian history, culture and arts in pre-colonial times, Nigerians perception of his world, culture areas of Nigeria and their characteristics, Evolution of Nigeria as a political unit, indigene/settler phenomenon. Concepts of trade, economic self reliance, social justice, individual and national development, norms and values, negative attitudes and conducts (cultism and related vices), re-orientation of moral environmental problems.

**GEDS 001, 002: CITIZENSHIP ORIENTATION 0, 0**

These are non-credit, but mandatory seminars where students are mentored in all aspects of Christian life. It discusses many topics with the hope of modeling best moral practices on students. Students received either a satisfactory or unsatisfactory grade at the end of the semester.

**GEDS 215: FUNDAMENTALS OF CHRISTIAN FAITH 3 Credits**

As a General Education Course, the course seeks to acquaint the student with specific biblical teachings which are an integral part of the mission of Babcock University. This is achieved by presenting the entire Bible (Old and New Testament) as a unified word of God inspired for

doctrine, reproof, correction and instructions. The course also presents Christ as the centre and theme of the Bible and all Christian doctrines. Specific focus is given to biblical themes such as revelation/inspiration, creation, the Holy Spirit, sanctuary services, the plan of salvation, Law, second coming of Christ, millennium. The student is therefore equipped to grasp great biblical themes for spiritual development.

**GEDS 200: COMMUNICATION IN FRENCH 2 Credits**

These courses introduce students to French, Alphabets and numeracy for effective communication (written and oral), conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

**GEDS 260: ENVIRONMENT AND SUSTAINABLE DEVELOPMENT 2 Credits**

Man-his origin and nature; Man and his cosmic environment; Scientific methodology, Science and technology in the society and service of man. Renewable and non-renewable resources – man and his energy resources. Environmental effects of chemical plastics, Textiles, Wastes and other materials, Chemical and radiochemical hazards, Introduction to the various areas of science and technology. Element of environmental studies.

**GEDS 270: PEACE AND CONFLICT RESOLUTION 2 Credits**

Basic Concept in peace and conflict resolution; Peace as vehicle of unity and development; Conflict issues; Types of Conflict, e.g. Ethnicity/religion/political/economic conflicts; Roots causes of conflicts and violence in Africa; Indigene/settler phenomenon; Peace – building; Management of conflicts and security. Element of peace studies and conflict resolution; Developing a culture of peace; Peace mediation and peace-keeping; Alternative Dispute Resolution (ADR). Dialogue/arbitration in conflict resolution; Role of international organization in conflict resolution, e.g. ECOWAS, African Union, United Nations, etc.

**GEDS 280: LEADERSHIP SKILLS 2 Credits**

Transformation is a fundamental shift in the deep orientation of a person organization or society such that the world is seen in new ways and new action and results become possible that were impossible prior to the transformation. transformation happens at the individual level but must be embedded collective practice and norms for the transformation to be sustained. Leadership development programme {LDP} proposes novel approaches to teaching and learning, which emphasizes the practical involvement of participants. It is interaction and involve exercise and actual implementation of breakthrough project by teams that make difference in the lives of the target population. in this course leadership, concepts comprising of listening, conversation emotional intelligence, breakthrough initiative, gender and leadership, coaching and leadership, enrolment conversation and forming and leading teams will be taught.

**GEDS 221: INTRODUCTION TO AGRICULTURE 2 Credits**

Meaning, nature and elementary concepts of Agricultural science; background lecture to Field work., farm management, Field practices, farming systems and farm machinery and implements. Tree Crop Production; processing and utilization; Roots and Tuber crop production; soil chemistry and fertility management; domestic animals and their uses; the science of animal production, principles of Livestock management and Industry.

**GEDS 290: SPREADSHEET AND DIGITAL PRESENTATION 2 Credits**

Microsoft Excel is the standard spreadsheet application for both the business world and personal use. You will learn from basic to advanced features of Excel. New features of Excel 2013, Quick Analysis tool to analyze your data instantly, Flash fill that recognizes data entry patterns, Intelligent Chart Recommendations, Enhanced Slicer functionality usable beyond pivot tables. New Excel functions such as Date and Time, Lookup References, Math and Trigonometry Statistical, Engineering, Cube, Information, Compatibility and Web. The Newest Features of Excel 2013, Performing basic to advanced calculations using formulas, Formatting and printing worksheets, Create powerful charts and graphs, Create Pivot tables and charts, Excel data table features that will enable you perform your tasks easily.

**GEDS 222: HISTORY AND PHILOSOPHY OF SCIENCE**

**2 Credits**

Man – his origin and nature, man and his cosmic environment, scientific methodology, science and technology in the society and service of man, renewable and non renewable resources; man and his energy resources, environmental effects of chemical plastics, textiles, wastes and other materials, chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies.

**GEDS 001, 002: CITIZENSHIP ORIENTATION**

**0, 0**

These are non-credit, but mandatory seminars where students are mentored in all aspects of Christian life. It discusses many topics with the hope of modeling best moral practices on students. Students received either a satisfactory or unsatisfactory grade at the end of the semester.

**GEDS 317: RELIGION AND SOCIAL ETHICS**

**3 Credits**

The course exposes students to the concept of God and His role in the life and times of modern human society. The course also exposes the student to the problems of religion and state. The contributions of religion to personal and national ethical values, the environment and social issues are discussed. Further, the course examines the origin and functions of religion in relation to humanity. It builds on the premise that human beings are believed to be religious and this should manifest in every aspect of their endeavors. On this basis, the course exposes students to the concept of God from Christian perspective and examines the role of religion in the life and times of modern human society. The course emphasizes on the need for a truly religious person to positively impacts every fabric of the society he/she comes in contact with. Thus, it sheds light on the contributions of religion to personal and national ethical values of its adherent.

**GEDS 312: INTRODUCTION TO FAMILY LIFE EDUCATION**

**2 Credits**

Study of marriage and family relationships, forms, trends and cross-cultural variation in mate selection, dating, sexual education (pre-marital sex, adolescents and conception, sexually transmitted diseases) and processes leading to the establishment of a stable family.

**GEDS 310: E-CUSTOMER RELTIONSHIP MANAGEMENT**

**2 Credits**

Define and explain the concepts and general overview of Customer Relationship Management (CRM). Goals of CRM, Pillars of CRM, Drivers of CRM, Benefits of CRM and solution maps of CRM. The concept of e-CRM, its implementation and challenges. Developing a Customer Strategy and the Fundamentals of Customer Strategy; Customer Strategy Basics (Customer Loyalty, Customer Satisfaction, Customer Profiling and Modeling). Evolution of a Customer

Centric Enterprise (Concept and Essence). Product Centricity, Specific Adaptations of a Customer Centric Enterprise (CCE). The Core of successful CRM initiatives, Seven Habits of a successful CCE. Mapping People, Processes and Technology. Discussing people, Processes and Technology; Transitioning from Product Centricity - Processes, Transitioning from Product Centricity – People, Transitioning from Product Centricity – Technology. Customer Lifestyle Management and Lifetime Value (Concept of Customer Lifestyle, Stages), Managing the Customer Life Cycle in a CCE, Concept of Customer Lifetime Value and Customer Lifetime Value assessment.

**GEDS 001, 002:**

**CITIZENSHIP ORIENTATION**

**0, 0**

These are non-credit, but mandatory seminars where students are mentored in all aspects of Christian life. It discusses many topics with the hope of modeling best moral practices on students. Students received either a satisfactory or unsatisfactory grade at the end of the semester.

**GEDS 400: INTRODUCTION TO ENTREPRENEURIAL SKILLS 2 Credits**

This course discusses entrepreneurship in theory and practice; opportunities, form of business, staffing, marketing and the new venture; determining capital requirements. Raising capital; financial planning and management; starting a new business: feasibility studies; innovations, legal issues, insurance and environmental considerations; possible business opportunities in Nigeria and abroad. Entrepreneurial Theories: interpersonal or personal characters and behavioural traits of entrepreneurship in which business success is most commonly reflected. External aspects of entrepreneurship.

**GEDS 440: E-PROJECT MANAGEMENT AND SIMULATION 2 Credits**

Learn the fundamentals to advanced concepts of solid Project Management Exploring Project Management Fundamentals, performing the Pre-project Setup, Initiating a project, Planning Project Strategy, Developing the Project Schedule, planning Human Resources, Communications and Quality, Planning Project Risk Management Planning Project Costs. Planning Project Procurements, Planning for Change Management and Transitions, Managing Project Execution, Managing Project Procurement, Monitoring Project performance, Monitoring and Controlling Project Constraints, Monitoring Project Risks and Procurements, Performing Project Closure.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

Biblical principles serve as bedrock in the building of personal and professional life. The Bible itself is an excellent resource or manual for instruction in morality as well as in providing the ethical underpinnings for all disciplines. The educational process will flounder in the quicksand of humanistic philosophies if it is not anchored on the timeless, God-given guidelines as enshrined in the Holy Scriptures. Thus, the course is designed to provide the students with the requisite spiritual and moral instructions and their interconnectedness with the students' chosen disciplines. While due emphasis will be given to the cognitive aspect of the instruction, the pragmatic nature of the course will be clearly demonstrated. Students will be made to understand that there are biblical principles they can employ in practically every discipline. For example, there are biblical principles that apply to disciplines such as Banking and Finance, Political

Science, Accounting, Public Health, Medical Laboratory, History and International Studies, Computer Science. Specific precepts and practices may be identified and drawn from the Bible as they apply to these disciplines.

Students who take the course are expected to imbibe the positive moral attributes of honesty, integrity, diligence, courage, humanity, excellence and apply them in their personal and professional lives.

**GEDS 430: CHARACTER FORMATION AND SPIRITUAL GROWTH     3 Credits**

The course focuses on the Biblical perspectives on character formation and spiritual growth of the student. Recognizing that character formation and spiritual growth are both a life-long process, the course emphasizes the need for spiritual nurture and care. This is expected to lead to the renewing of the mind and the maturing and growing of Christian identity. The course also identifies how God utilizes Scripture, people, contexts, literature, spiritual disciplines, and events to transform believers into the image of Christ. Specifically, the spiritual discipline of prayer, feeding on the word and meditating on it are intentionally designed to foster spiritual growth. The course underscores the role of the Holy Spirit in building a symmetrical and Christ-like character. While references to some Biblical characters with a view to evaluating their strengths and weaknesses may be helpful, a major focus of the course is on the life of Christ, the one and only perfect character. By daily contemplating the character of Christ, the student becomes changed to the same image. Students offering the course are expected to imbibe the character trait of love, faithfulness, reverence, integrity, piety that will equip them to render selfless service in the wider society.

**DEPARTMENT OF EDUCATION**



***PROF. Ruth A. ADERANTI***  
***Head of Department***

***ACADEMIC STAFF***

Ruth A. ADERANTI Ph.D  
Ademola S. TAYO, Ph.D  
James A. OGUNJI, Ph.D  
Constance. C. NWOSU, Ph.D  
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Taiwo M. WILLIAMS Ph.D  
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Ayodele ADEOYE Ph.D  
Kolawole AYODELE Ph.D  
Ngozi UWANNAH MPP, PhD  
Bankole A. FILADE, M.Ed.  
Samuel U. AMANZE Ph.D  
Kelechi IBE-MOSES Ph.D  
Joseph N. AMAEFULE, B.Sc

Professor of Applied Psychology  
Professor of Development Education  
Professor of Development Education  
Professor of English and Curriculum Studies  
Professor of Educational Management  
Adjunct Professor of Educational Management  
Associate Professor of English Education  
Senior Lecturer Counseling Psychology/Science  
Senior Lecturer Applied Psychology/Counselling  
Senior Lecturer Applied Psychology/Counselling  
Senior Lecturer Applied Psychology/Test & Ms  
Lecturer I Personnel Psychology/Business Edu.  
Lecturer II in Guidance and Counseling  
Adjunct Lecturer in Educational Management  
Adjunct Lecturer in Educational Management  
Administrative Secretary

**HISTORY OF THE DEPARTMENT**

The Department of Education was established as Department of Educational Foundation in the School of Education and Humanities in 2012. The pioneer head was Dr. Ruth A. Aderanti. In 2013, Dr. Comfort A. Oyinloye became the Head of Department. In 2015, in line with the advice of the NUC that the Department should be program-based, the name of the Department was changed to Department of Education with five programmes namely: Business Education, Economics Education, Educational Administration & Planning English Education, and Guidance and Counselling.

The Department has been operating within the School of Education and Humanities to train competent and dedicated student teachers in the spirit of the national goals and objectives regarding the human resource needs of the nation. The Department in conjunction with other Departments in the School of Education and Humanities and other cognate Departments in the University has been involved in the conduct, promotion and dissemination of research that are relevant to the development of education and the nation in general. Through organization of summer classes, seminars, workshops and conferences, the Department has engaged in projecting the image of the University nationally and internationally.

All the programmes mounted in the Department are aimed at training and producing professionally competent teachers for the secondary schools and other educational institutions as well as making them trainable for administrative responsibilities within and outside the school system. The Department provides all-round education in the following areas:

- processes of teaching and learning
- understanding the child
- understanding the origin and nature of society and the place of the human element in it
- understanding the origin, nature and dynamics of knowledge
- Education of learning outcomes.

The cognate Departments assist the Department in teaching specialized courses like English, Economics and Business courses. The Department equally assists other Departments in the school and in other cognate Departments in the University to teach the General Education Studies (GEDS) courses.

## **PHILOSOPHY OF THE DEPARTMENT**

Realizing the pivotal role of teacher education in the overall development of the individuals, nations and humanity in general, the Department of Education is conceived as an academic unit devoted to the pursuit of excellence in research, teaching, learning and community service for the production of sound, committed and dynamics teachers and teacher educators/guidance counselors who can effectively respond to the challenges of Education in their immediate community, nation and the world at large.

## **VISION**

A reputable Department that produces knowledgeable, skillful, dynamic and value – driven 21st century teachers /Guidance Counselors/ Educational Managers & Planners/ Business Educators/ Office Technology Managers who can match their peers nationally and internationally.

## **MISSION**

Providing academically sound and professionally relevant programmes and training for teachers/ Teacher Educators/ Guidance Counselors/ Educational Managers & Planners/ Business

Educators/ Office Technology Managers who are grounded in the modern techniques of the 21<sup>st</sup> century educational processes who have the fear of God accompanied with integrity.

### **AIMS AND OBJECTIVES OF THE DEPARTMENT**

The aim of the Department of Education is to produce teachers, teacher educators and guidance counselors who can effectively respond to the teaching, training and research challenges of the 21<sup>st</sup> century educational system.

To achieve this goal, the specific objectives of the Department are;

1. Equipping the students with appropriate pedagogical skills and competencies needed for handling various school subjects with Christ mind as one to give an account to the Master Teacher who is Jesus Christ.
2. Collaborating with cognate departments for the acquisition of relevant skills, knowledge and other forms of competencies needed for the production of quality teachers for the Nigerian educational system to produce soldiers for Christ.
3. Supporting governmental and non – governmental agencies in providing capacity building and research services for the enhancement of educational quality in Nigeria.

### **ADMISSION REQUIREMENTS**

Applicants for regular admission as freshmen (100-Level) must submit three satisfactory letters of recommendations to the Admissions Office, and satisfy the following, with originals of documents available for verification at the time of enrolment:

#### **Regular Admission:**

West African Senior Secondary School Certificate (SSSC); General Certificate of Education (GCE) Ordinary Level (O’L) or equivalent, National Examinations Council (NECO), National Business & Technical Examinations Board (NABTEB), at one or two sittings.

- e. A minimum of Credit level (C6) pass in at least 5 subjects, including English Language and any other 4 relevant subject
- f. Acceptable passes in the Unified Tertiary Matriculation Examinations (UTME).
- g. Acceptable entry requirements for major area of study.
- h. In addition, candidates must have acceptable passes in the Babcock University Post Unified Tertiary Matriculations Examinations (UTME) and/or placement tests administered by the university.

#### **Provisional Admission**

**All admissions offered by the University are provisional until the credentials of the candidate have been verified and certified by the Registrar.** Applicants awaiting the results of the Senior Secondary School Examinations (SSCE) or National Examinations Council (NECO) are eligible to apply, **but must provide authenticated results before Matriculation. If the results are not favourable, the admission will be withdrawn automatically.** Authenticated results must satisfy the requirements for a chosen degree programme before consideration for regular admission and matriculation.



### **Admission into Direct Entry 200 level Degree Programmes**

Candidates must possess one of the following qualifications:

- i. Passes in GCE Advanced Level in two (2) relevant principal subjects (minimum of eight points) with GCE 'O' Level or Senior Secondary Certificate (SSCE) or approved equivalent credit passes in 3 other subjects at not more than 2 sittings.
- ii. Passes in GCE Advanced Level or professional qualification in three relevant principal subjects with GCE 'O' Level or Senior Secondary Certificate or approved equivalent credit passes in 2 other subjects at not more than 2 sittings.
- iii. Passes in NCE subjects / professional qualifications with GCE 'O' Level / SSCE Credits or Merits at Teachers Grade II or equivalent in 3 other subjects
- iv. Holders of NCE certificates / professional qualifications with GCE 'O' Level / SSCE Credits or Merits at Teachers Grade II or equivalent in 3 other subjects.
- v. Merit passes at O. N. D in Science / Vocational and Commercial subjects.
- vi. Merit pass in Diploma in relevant programmes and 3 other subjects in GCE Ordinary level or SSCE or Merits at Teachers' Grade II.

#### **Conditions to Note**

1. No subjects may be counted twice at both 'O' and 'A' or at NCE Levels.
2. All candidates must satisfy all other admission requirements as earlier stipulated under the 4 year degree programme.

**B.Sc. (Ed) BUSINESS EDUCATION  
100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 105	Use of library and Study skills	2	-
GEDS 107	Introduction to General psychology	2	
GEDS 101	Philosophy of Christian Education	2	-
GEDS 112	Health principles	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 134	Nigeria people in a Global Culture	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 104	Philosophical/sociological/psychological Foundations of Education	-	3
BSAD 101	Principles of Management I	3	-
BSAD 102	Principles of Management II	-	3
ECONS 101	Principles of Economics I	3	-
BEDU 102	Introduction to Vocational Education	-	3
ACCT 101	Principles of Accounting I	3	-
ACCT 102	Principles of Accounting II	-	3
BSAD 111	Business Mathematics I	2	-
BSAD 112	Business Mathematics II	-	2
BEDU 101	Word Processing	2	-
	<b>TOTAL (49 Credits)</b>	<b>24</b>	<b>25</b>

**B.Sc. (Ed) BUSINESS EDUCATION  
200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 290	Spreadsheet and Digital Presentations	-	2
GEDS 260	Environmental and Sustainable Development	-	2
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 280	Leadership Skills	2	-
	<b>CORE COURSES</b>		
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching methods 1	-	3
EDUC 210	Teaching Practice I	-	3*
EDUC 213	Introduction to Statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
BSAD 203	Production/Operations Management I	3	-
BEDU 213	Fundamentals of Business Education	3	
BSAD 211	Business Communication	3	-
FNCE 218	Introduction to Financial Management	-	3
ACCT 203	Cost Accounting I	3	-
BEDU 202	Administrative Office Management	-	2
	<b>TOTAL (49 Credits)</b>	<b>25</b>	<b>24</b>

**\*EDUC 210**

**-To be done during the summer**

## B.Sc. (Ed) BUSINESS EDUCATION

### 300 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family life Education	-	2
GEDS 310	E-Customer Relationship Management	-	2
	<b>CORE COURSES</b>		
EDUC 300	Teaching Practice II	-	3*
EDUC 303	Educational Planning and Administration	2	-
EDUC 301	Teaching Methods II	3	-
EDUC 302	Tests, Measurements and Evaluation in Education	-	3
EDUC 305	Curriculum Development and Instructions I	2	-
EDUC 311	Research Methods in Education	3	-
BEDU 312	Office Information Technology	-	2
BSAD 332	Human Resources Management	-	3
BSAD 314	Operations Research	-	3
ACCT 318	Audit and Assurance I	-	3
LAWS 325	Business Law I	3	-
LAWS 326	Business Law II	-	3
<b>BSAD 317</b>	<b>Industrial and Labour Relations</b>	<b>3</b>	<b>-</b>
ACCT 300	Management Accounting	3	-
INSY 301	Intermediate Spreadsheet	2	-
	<b>TOTAL (48 Credits)</b>	<b>24</b>	<b>24</b>

**\*EDUC 300                      -to be done during the summer**

**B.Sc (Ed) BUSINESS EDUCATION  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skill	-	2
EDUC 412	Introduction to Special Education	-	2
EDUC 413	Guidance and Counseling	2	-
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
EDUC 423	Curriculum Development and Instructions II	2	-
BSAD 421	Organizational Behaviour	3	-
BSAD 407	Entrepreneurial Development I	3	-
BSAD 430	Strategic Management	-	3
ACCT 433	Taxation I	3	-
FNCE 476	Managerial Finance	-	3
MKTG 431	Strategic Marketing Management I	3	-
BEDU 401	Fundamentals of Data Processing	3	-
BEDU 402	Management Information System	-	2
EDUC 490	Research Project	-	6
	<b>TOTAL (42 Credits)</b>	<b>22</b>	<b>20</b>

**DIRECT ENTRY PROGRAMMES  
ENTRY LEVEL: 200L**

**B.Sc. (Ed) BUSINESS EDUCATION  
200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 260	Environmental and Sustainable Development	-	2
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 104	Philosophical/sociological/psychological Foundations of Education	-	3
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching methods 1	-	3
EDUC 210	Teaching Practice I	-	3
EDUC 213	Introduction to Statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
BSAD 203	Production/Operations Management I	3	-
BEDU 213	Fundamentals of Business Education	3	
BSAD 211	Business Communication	3	-
FNCE 218	Introduction to Financial Management	-	3
ACCT 203	Cost Accounting I	3	-
BEDU 202	Administrative Office Management	-	2
	<b>TOTAL (45 Credits)</b>	<b>24</b>	<b>21</b>

**DIRECT ENTRY**  
**B.Sc. (Ed) BUSINESS EDUCATION**

**300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
EDUC 300	Teaching Practice II	-	3
EDUC 301	Teaching Methods II	3	-
EDUC 302	Tests, Measurements and Evaluation in Education	-	3
EDUC 303	Educational Planning and Administration	2	-
EDUC 305	Curriculum Development and Instructions I	2	-
EDUC 311	Research Methods in Education	3	-
BEDU 312	Office Information Technology	-	2
BSAD 332	Human Resources Management	-	3
BSAD 314	Operations Research	-	3
ACCT 318	Audit and Assurance I	-	3
LAWS 325	Business Law I	3	-
LAWS 326	Business Law II	-	3
<b>BSAD 317</b>	<b>Industrial and Labour Relations</b>	<b>3</b>	<b>-</b>
ACCT 300	Management Accounting	3	-
INSY 301	Intermediate Spreadsheet	2	-
	<b>TOTAL (44 Credits)</b>	<b>24</b>	<b>20</b>

**DIRECT ENTRY**  
**B.Sc (Ed) BUSINESS EDUCATION**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skill	-	2
EDUC 412	Introduction to Special Education	-	2
EDUC 413	Guidance and Counseling	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
<b>GEDS 440</b>	<b>E-Project Management and Simulation</b>	<b>-</b>	<b>2</b>
	<b>CORE COURSES</b>		
EDUC 423	Curriculum Development and Instructions II	2	-
BSAD 421	Organizational Behaviour	3	-
BSAD 407	Entrepreneurial Development I	3	-
BSAD 430	Strategic Management	-	3
ACCT 433	Taxation I	3	-
FNCE 476	Managerial Finance	-	3
BEDU 401	Fundamentals of Data Processing	3	-
MKTG 431	Strategic Marketing Management I	3	-
BEDU 402	Management Information System	-	2
EDUC 490	Research Project	-	6
	<b>TOTAL (42 Credits)</b>	<b>22</b>	<b>20</b>



**ENTRY LEVEL: 300L****B.Sc. (Ed) BUSINESS EDUCATION****300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Methods I	-	3
EDUC 300	Teaching Practice II	-	3
EDUC 301	Teaching Methods II	3	-
EDUC 302	Tests, Measurements and Evaluation in Education	-	3
EDUC 303	Educational Planning and Administration	2	-
EDUC 305	Curriculum Development and Instructions I	2	-
EDUC 311	Research Methods in Education	3	-
BEDU 312	Office Information Technology	-	2
BSAD 332	Human Resources Management	-	3
BSAD 314	Operations Research	-	3
ACCT 318	Audit and Assurance I	-	3
LAWS 325	Business Law I	3	-
LAWS 326	Business Law II	-	3
INSY 301	Intermediate Spreadsheet	2	-
	<b>TOTAL (47 Credits)</b>	<b>24</b>	<b>23</b>

**DIRECT ENTRY**

**B.Sc (Ed) BUSINESS EDUCATION  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skill	-	2
EDUC 412	Introduction to Special Education	-	2
EDUC 413	Guidance and Counseling	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
EDUC 423	Curriculum Development and Instructions II	2	-
BSAD 421	Organizational Behaviour	3	-
BSAD 407	Entrepreneurial Development I	3	-
BSAD 430	Strategic Management	-	3
ACCT 300	Management Accounting	3	
BSAD 317	Industrial and Labour Relations	-	3
ACCT 433	Taxation I	3	-
FNCE 476	Managerial Finance	-	3
BEDU 401	Fundamentals of Data Processing	3	-
MKTG 431	Strategic Marketing Management I	3	-
BEDU 402	Management Information System	-	2
EDUC 490	Research Project	-	6
	<b>TOTAL (46 Credits)</b>	<b>25</b>	<b>21</b>

**B.SC. (ED) BUSINESS EDUCATION  
COURSE DESCRIPTIONS**

**EDUC 113: TEACHING PROFESSION**

**3 Credits**

The course provides awareness of basic information about teachers' role in the communities and nation building, professionalism of teaching ethics, unionism and other professional associations in education.

**EDUC 104: PHILOSOPHICAL / SOCIOLOGICAL/ PSYCHOLOGICAL  
FOUNDATIONS OF EDUCATION**

**3 Credits**

A study of the educational development and institutions, from ancient times to the present with particular reference to the evolution of modern education in Nigeria. An introduction to major psychological, sociological and philosophical foundations of education.

**BEDU 101: WORD PROCESSING**

**2 Credits**

This course involves the general competency in keyboarding, processing of documents and the use of computer software like Corel Draw, Excel. Microsoft Word etc.

**BSAD 101: PRINCIPLES OF MANAGEMENT I**

**3 credits**

Define and explain the nature of business, understand the nature of environmental and its relevance for policy decisions to be made by the management of any organization. The basic concepts, principles and techniques in the solution of management problems

**BSAD 102: PRINCIPLES OF MANAGEMENT II**

**3 credits**

(Students are expected to have passed principle I before taking this course)

Examines the four elements of the management process: Planning, Organizing, Leading, and Controlling. Identifying principles to assist managers in adapting these elements to fit a variety of situations and enterprises; Reviews methods to improve the quality of managerial decisions in small and large, profit-seeking and not-for-profit organizations. Topics include management as a discipline, alternative organizational models, effective decision-making, mission and strategy, operational strategy, and adaptive planning

**ACCT 101: PRINCIPLES OF ACCOUNTING 1**

**3 Credits**

History and Development of Accounting. The nature and scope of accounting, the role of accounting, users of financial statement; introducing statement of Accounting Standard I & 2 (S.A.S. I & 2), the accounting functions and its relationship with the information system of organizations, accounting procedure and systems, basic documentation process, double entry book-keeping system, the trial balance, accruals, pre-payments and adjustments.

**ACCT 102: PRINCIPLES OF ACCOUNTING II**

**3 Credits**

Reserves and provisions, payroll accounting, preparation of final accounts, manufacturing, trading, profit and loss accounts, balance sheet for sole proprietorship; Partnership and Limited Liability companies, partnership agreement, preparation of final accounts. Preparation of income and expenditure accounts and balance sheet or statement of affairs for non-profit making organization. Preparation of final accounts from incomplete records, simple joint venture accounts and others.

**ECON 101: PRINCIPLES OF ECONOMICS 1**

**3 Credits**

An introduction to the various issues in economics, the nature of economic science, the methodology of economics, major areas of specialization in economics, stressing historical

development of "ideas, elementary principles of micro and macroeconomics, current issues of interest in Economics and probable future development.

**BSAD 111: BUSINESS MATHEMATICS 1**

**2 Credits**

Introduction to set Theory with applications to business-related problems. Indices and Indicial equations with Graphs Algebraic expressions. Polynomials. Equations and Inequalities with applications. Coordinate geometric of lines. System of linear equations with applications. Sequences and series with applications. Simple and compound interests. Present value. Annuities, amortization. Introduction to Manx matrices and applications. Elementary Operations on matrices.

Determinants. This does not apply to students majoring in computer science or mathematics. Students will be taught how to skilfully coordinate and control investments in a Godly manner.

**BSAD 112: BUSINESS MATHEMATICS 11**

**2 Credits**

Functions of real- variables. Concepts and Definition. Limit and continuity of functions. Derivatives and Techniques of finding derivatives with applications to business problems. Increasing and Decreasing functions with applications. Extreme values and applications. Integration and techniques with applications.

Functions of several variables. Derivatives and applications. This does not apply to students majoring in computer science or mathematics. Students will be taught how to skilfully coordinate and control investments in a Godly manner.

**BEDU 102 INTRODUCTION TO VOCATIONAL EDUCATION**

**2 Credits**

The conceptual issues and historical development of vocational education in Nigeria.

These include meaning, purpose, goals, values, image, and objectives of vocational education as well as the historical trends in the development of vocational education in Nigeria.

**EDUC 203: EDUCATIONAL PSYCHOLOGY**

**3 Credits**

The knowledge of the basic principles of psychology and how these could be applied in explaining human behavior generally and in particular, human variability and individual differences as observed in the classroom. The social and environmental factors that hinder full development of the child in the classroom will be discussed.

**EDUC 213: INTRODUCTION TO STATISTICS IN EDUCATION**

**3 Credits**

This course involves analysis and appraisal of statistical data in education, evaluation of techniques used in education which include the descriptive and inferential statistics and application of the statistical methods in educational research.

**EDUC 210, 300: TEACHING PRACTICES I, II**

**3, 3 Credits**

An elective approach to the design process application and effects of technology in teaching-learning situations. Emphasis is on the improvisation with local resources.

**EDUC 204, 301: TEACHING METHODS I, II**  
**Credits**

**3, 3**

Any one of the following method courses

**Language Methods (3 Credits)**

Evaluation of teaching, application of principles of language teaching to specific examples. Audio visual aids in language teaching, implications of language policy for language teaching in schools, original essay on any chosen specific problems of language teaching in schools. Requirements in WASC English language, French language and Yoruba languages examinations.

**Social science methods (3 Credits)**

Discussion on methods of teaching. Study trips. Techniques of presenting information in social sciences. Preparation and use of teaching aids in social sciences. Organization of specimen teaching sessions on specific topics.

**EDUC 246: EDUCATIONAL/INSTRUCTIONAL TECHNOLOGY 3 Credits**

Explanation and Definition of the Concept of educational/instructional technology, historical development of educational/instructional technology, the history of educational/instructional technology in Nigeria and global historical perspective. Emphasis will be on theories, principles of leaning and educational/instructional technology. Audio- visual technology, hardware and software in teaching aids, practical application and software tools for teaching learning, system approach, advances in educational/instructional technology, design and Production of Instructional media, Micro Teaching with interactive Whiteboard (Smart board) will also be taken

**ACCT 203: COST ACCOUNTING I**

**3 Credits**

- Nature and purpose of cost accounting
- Theory of cost behaviour
- Material costing
- Overhead
- Process costing
- Job/batch costing

**BSAD 203: PRODUCTION/OPERATIONS MANAGEMENT I 3 Credits**

Production and its management in a business setting: production function modeling, forecasting and inventory management, systems theory and work study and management, predicted on the global products with acceptable quality.

**BSAD 211: BUSINESS COMMUNICATION**

**3 Credits**

A study and application of the modern practices in oral and written business communication. Accuracy in grammar, spelling and punctuation and the writing of well-knit sentences and clear paragraphs, are taught as a means of effective expression in business letter writing.

**FNCE 218: INTRODUCTION TO FINANCIAL MANAGEMENT 3 credits**

Objectives, role, functions and environment of financial management. Flow of funds accounts. Financial analysis, including ratios. Financial forecasting. Cash management. Capital market functions, including supply and demand for capital. Money and capital market in Nigeria. Capital budgeting. Cost of capital. Dividend policy. Problems of financial administration.

**BEDU 202: ADMINISTRATIVE OFFICE MANAGEMENT 2 Credits**

The course embraces the basic principles of office management as well as development of word processing skills (Microsoft words, Spreadsheet, desktop publishing etc) to process office documents including business letter, memo, statement of account etc.

**BEDU 213: FUNDAMENTALS OF BUSINESS EDUCATION 3 Credits**

This course is the background and development of occupational education programme. An overview of historical development of business education. The apprenticeship system of training the office workers. The development of private proprietary, business school, independent business academy. The three subjects' curriculum, industrials revolution and the expansion of business and office occupations.

**EDUC 302: TEST, MEASUREMENT AND EVALUATION IN EDUCATION 3 Credits**

An experience in test construction, administration analysis and interpreter, test, testing, measurement, assessment and evaluation principles of testing evaluation, measurements context. The use of statistics and computer as tools in educational research should be emphasized.

**EDUC 303 EDUCATIONAL PLANNING AND ADMINISTRATION 2 credits**

A broad overview of the basic theories, principles, goals and techniques of management practices in education, institutional setting of educational administration and planning; planning approaches; national economic planning and educational planning.

**EDUC 311: RESEARCH METHODS IN EDUCATION 3 Credits**

This course is designed to teach students to understand research methods in education as well as equip them the skill of conducting research and writing research projects. Topics include: introduction to research, definition, Biblical importance of carrying out research, ethics of research, types of research, identifying problems, choosing of research topics, writing of background to the study, Statement of the problem and objective of the study, formulation of research questions and hypothesis, research methodology, construction of questionnaire, method of data analysis, compilation and format of writing references.

**LAWS 325: BUSINESS LAW I 3 Credits**

A Course design to study the nature of' social functions of' law including social control through law and the law of commercial transactions (uniform commercial code) and business organization (spring). Any others topical issues.

**LAWS 326: BUSINESS LAW II 3 Credits**

Uniform Commercial Code, Sales, Commercial Paper, Secured Transactions, Creditors' rights and bankruptcy, Agency, Business Organization, Limited and General Partnerships, Corporations, Government regulations. Any other topical issues.

**BSAD 317: INDUSTRIAL AND LABOUR RELATIONS 3 credits**

The evolution of industrial relations and its relationship to the personnel management and other functional areas of management: as a vital tool in the industrial setting in the quest for harmony so that organizational objectives can be achieved peacefully.

**ACCT 300: MANAGEMENT ACCOUNTING****3 Credits**

Budgetary system and controls including operational budget, cash budget, profit and loss accounts budget, balance sheet, capital budgeting and expenditure control, Responsibility accounting, system e.g. responsibility areas like cost centres, investment centres, profit centers performance evaluation in a divisionalized organization, standard costing; advanced variance, working back variances, operational and planning variances, control ratios and profit analysis, the use of models in decision making; application research and statistical and planning e.g. linear programming, PERT, learning curve, decision tree. Any other topical issue? As Management Accountants, we should always be transparent, hide nothing in discharging our responsibilities, therefore, let each one of us speak the truth with your business partners, for we are members one of another. To this end, the challenges faced by Management Accountants in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

**BSAD 314: OPERATIONS RESEARCH****3 Credits**

A history of O.R.; implementation results of O.R.; results; formulation and graphical solution of linear programming problems, prototype linear programming models.

**ACCT 318: AUDIT AND ASSURANCE I****3 Credits**

Auditing principles and theory, basic principles and concepts of audit and control, nature of errors and frauds, impact of law and accounting standard on audit, concept of “true and fair”, materially, audit risk, appointment and removal of auditor, duties and responsibilities of auditor, auditors' liability, internal control; need for internal control, practical application, authorization, recording and custody procedures, problems related to small companies, impact of weaknesses in internal control, internal audit, relationship between internal and external audit, cut-off procedure of the auditors to directors, shareholders and other financial examination, third party confirmation, documentary evidence, vouching, management representations, letter of representation, Audit practices; use of audit files working papers, evaluation of accounting system using internal control questionnaires and checklists verification of balance sheet items as to existence cost authorization, beneficial ownership and disclosure in the accounts. Internal audit and corporate governance, difference between the external auditor and the internal audit function. The scope of the internal audit function and outsourcing the internal audit function.

**BSAD 332: HUMAN RESOURCES MANAGEMENT****3 Credits**

Study of the personnel function, which include the development of program recruitment, selection, performance evaluation, training, supervision, compensation, pensions, and government regulations

**INSY 301: INTERMEDIATE SPREADSHEET****2 Credits**

Advance application of spreadsheet package as applied in business, adequate attention be paid to the use of spreadsheet in the various financial and costing methods like budgeting, payroll preparation, cash analysis etc., packages like micro-soft Excel, Lotus, Quatro-pro, DAC-easy, Peach tree, sage, quick books s be used etc. Any other topical issue. The principles learnt from

this course will help make students accountable to God as the giver of wealth and in an orderly and sequential method.

**BEDU 312: OFFICE INFORMATION TECHNOLOGY** **2 Credits**

The course handles various office services and automation, information and communication handling procedures, office functions, types of office machines as they apply to different departments in the office. Mammal and electronic gadgets.

**BSAD 421: ORGANISATIONAL BEHAVIOUR** **3 credits**

Understanding the organizational environment; organizing for communication, high performance, and performance evaluation; selecting and developing the team; establishing favorable superior, peer, and subordinate relationships.

**BSAD 407: ENTREPRENEURIAL DEVELOPMENT I** **3 Credits**

This is a follow-up to Foundations of Entrepreneurship. Some key issues and concepts relating to the following will be taught and discussed - overview of entrepreneurship, entrepreneurship development theories; entrepreneurship orientation, Nigerian entrepreneurial environment, entrepreneurship process, forms of business ownership, business opportunity and constraints evaluation, strategic approach to entrepreneurship, business creation and planning, financial aspect of entrepreneurship/source of capital, entrepreneurship development in Nigeria, entrepreneurship marketing, private government agencies supporting and promoting entrepreneurship in small and medium enterprises, reflections from case studies.

As entrepreneurs in God vineyard, we should do nothing out of selfish ambition or vain conceit, but in humility consider others better than oneself. Every entrepreneur should look not only to his/her own interests, but also to the interests of others. Based on the challenges faced confronting entrepreneurs in the business ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

**BSAD 430: STRATEGIC MANAGEMENT** **3 credits**

Nature, dynamics and significance of corporate strategy and policy. The Nigeria business environment. Corporate social responsibility. Formulation, evaluation, and implementation of corporate strategy and organization structure. Case studies in general management.

**BEDU 402: MANAGEMENT INFORMATION SYSTEMS** **2 Credits**

Introduction to the use of computing and information systems in organizations and to problems of analysis, design, implementation, and management information systems. The role of technology and the organizational forms and processes needed to effectively apply technology in organizations is contrasted with the role of management and in directing and guiding information activities. The use of advanced systems development technologies such as application generators complements materials on systems design, control, and database methods, and systems organization.



A study of the fundamental principles of financial organization. Emphasis on instruments of finance, policies of capitalization, problems pertaining to working capital, and corporate expansion and reorganization.

Tax practice and Administration; Individual Assessment, Trust Settlements, Withholding Tax, VAT and estates; Capital Gains Tax; Corporate Taxation including Taxation of Income, Pioneer Activities and Double Taxation relief; Petroleum Profits Tax; Stamp Duty including Transfers between Associated Companies and Reconstruction/Amalgamation Relief; Case Study.

Application of the fundamental principles of management to the marketing function. The organization, planning, control and co-ordination and interaction of the whole marketing function (product, physical, distribution, pricing and promotion). Marketing and social responsibility, consumer behavior, etc.

This course will focus on the concept of true education encompassing acquisition of systematic knowledge of the head, heart and hand to enable our graduates be completed in all ramification of world of work. Hence the course will expose the students to effective commination that will enhance good relationship; developing a helping relationship as disciples of Jesus Christ the Master Teacher. Furthermore, the course will inculcate biblical principles in their administrative, planning and teaching activities so as to become committed educators. The knowledge of this course will also create an awareness in students about God and the Bible as the source of knowledge and that all knowledge must lead the students to God. In addition, this course will undertake the study of the various schools of the Bible viz-a-viz school of Eden, school of the Patriarchs, school of the Desert, school of Canaan, school of the Prophets, school of John the Baptist, school where Jesus learned, school where Jesus taught, school of the Christian Church and school of the Hereafter or Heaven; and bring out the principles highlighted in these schools in other to enable graduates inculcate these principles in their daily living and interaction with members of the community.

A study of the theories and principles of curriculum planning, development, implementation and evaluation. An emphasis on the design and use of varieties of instructional strategies in different contexts. An overview of curriculum innovation in subject matter with particular references to the Nigeria experiences.

The classification and etiology of handicapping conditions are studied with a view to provision of an educational programme for various types of exceptionality. Therefore, this course introduces students to the field of special education as it examines the development of this field and enables an understanding of the developmental and learning characteristics of students with

all types of exceptionalities. It also emphasizes healthy parent and school relations through effective communication: state and federal regulations impacting services for special needs children; and litigation, regulation, advocacy issues impacting educational and related services for individuals with academic and/ or physical disabilities.

**EDUC 413: GUIDANCE AND COUNSELING (2 Credits)**

This course introduce the nature, aims, objectives, theories and methods of guidance and counseling in the Nigerian educational system. An examination of students' needs and problems-biological and environmental, and the importance of guidance and counseling as probable measures for coping with them; such aspects of counseling and guidance-vocational placement, orientation and evaluation and evaluation, and tools for cumulative records, tests and inventories and their uses.

**EDUC 490: RESEARCH PROJECT (6 Credits)**

Independent study of a management topic approved by the department under the supervision of a lecturer in the department.

**B.ED. EDUCATIONAL ADMINISTRATION AND PLANNING**  
**100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 105	Use of Library and Study Skills	2	-
GEDS 101	Philosophy of Christian Education	2	-
GEDS 107	Introduction to General Psychology	2	
GEDS131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 112	Health Principles	-	2
GEDS 134	Nigeria People in Global Culture	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 104	Philosophical/sociological/psychological Foundations of Education	-	3
EDPA 105	Introduction to Educational Policies in Nigeria	3	-
EDPA 108	History of Educational Administration and Planning in Nigeria	-	3
EDPA 113	Administrative Behaviour	3	-
	Choose 4 courses of 3credits in each semester in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted. Any one course in any area	6	6
	<b>TOTAL (46 Credits)</b>	<b>23</b>	<b>23</b>

**B.ED. EDUCATIONAL ADMINISTRATION AND PLANNING  
200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environmental and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Methods I	-	3
EDUC 210	Teaching Practice I	-	3*
EDUC 213	Introduction to Statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
EDPA 212	Introduction to Administration of School Laws in Nigeria	-	3
EDPA 213	Introduction to Educational Administration and Planning	3	-
EDPA 214	Timetabling and Programme Organization in Nigerian Schools	-	3
ENG 207	Introduction to Communication Skills in Educational Management	3	-
	Choose 4 courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (54 Credit)</b>	<b>27</b>	<b>27</b>

**\*EDUC 210**

**-To be done during the summer**

**B.Ed. EDUCATIONAL ADMINISTRATION AND PLANNING  
300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	-	2
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
GEDS 280	Leadership Skills	-	2
	<b>CORE COURSES</b>		
EDUC 300	Teaching Practice II / Industrial Training in Educational Administration	-	3 (summer)
EDUC 301	Teaching Methods 11	3	-
EDUC 302	Test, Measurement and Evaluation in Education	-	3
EDUC 303	Educational Planning and Administration	2	-
EDUC 305	Curriculum Development and Instruction I	2	
EDUC 311	Research Methods in Education	3	
EDPA 303	Leadership in Formal Organization	2	-
EDPA 305	Introduction to Administrative Theories	2	-
EDPA 306	School Community Relationship	-	2
EDPA 308	Economics of Education	-	3
EDPA 311	Problems and Issues in Planning Nigeria Education	3	-
EDPA 314	Educational Evaluation and Finance	-	3
	Choose 4 credits course relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (52 Credits)</b>	<b>26</b>	<b>26</b>

**EDUC 300 - To be done during the summer**

**B.ED. EDUCATIONAL ADMINISTRATION AND PLANNING**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
EDUC 412	Introduction to Special Education		2
EDUC 413	Guidance and Counseling	2	-
EDUC 423	Curriculum Development and Instruction II	2	-
EDPA 406	National and International Perspectives of Educational Management	-	2
EDPA 412	Policy Analysis and Emerging Problems in Nigeria Education	-	3
EDPA 414	School Business Management	-	3
EDPA 415	Personnel Management and Evaluation in Education	3	-
EDPA 417	Formal Organisation Innovative Process and Change	3	-
EDPA 419	Practice of Management and Records Keeping	3	-
EDUC 490	Research Project	-	6
	Choose 4 courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (48 Credits)</b>	<b>24</b>	<b>24</b>

**DIRECT ENTRY PROGRAMME (3 YEARS)**  
**ENTRY LEVEL: 200L**

**B.ED. EDUCATIONAL ADMINISTRATION AND PLANNING**  
**200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 260	Environmental and Sustainable Development	-	2
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 104	Philosophical/sociological/psychological Foundations of Education	-	3
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Methods I	-	3
EDUC 210	Teaching Practice I	-	3
EDUC 213	Introduction to Statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
EDPA 212	Introduction to Administration of School Laws in Nigeria	-	3
EDPA 213	Introduction to Educational Administration and Planning	3	-
ENGC 207	Introduction to Communication Skills in Educational Management	3	-
	Choose 4 courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (49 Credit)</b>	<b>24</b>	<b>25</b>

**DIRECT ENTRY**  
**B.Ed. EDUCATIONAL ADMINISTRATION AND PLANNING**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
EDUC 300	Teaching Practice II / Industrial Training in Educational Administration	-	3
EDUC 301	Teaching Methods 11	3	-
EDUC 302	Test, Measurement and Evaluation in Education	-	3
EDUC 303	Educational Planning and Administration	2	-
EDUC 311	Research Methods in Education	3	
EDPA 214	Timetabling and Programme Organization in Nigerian Schools	-	3
EDPA 303	Leadership in Formal Organization	2	-
EDPA 305	Introduction to Administrative Theories	2	-
EDPA 306	School Community Relationship	-	2
EDPA 308	Economics of Education	-	3
EDPA 311	Problems and Issues in Planning Nigeria Education	3	-
EDPA 314	Educational Evaluation and Finance	-	3
	Choose 4 credits course relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (48 Credits)</b>	<b>23</b>	<b>25</b>



**DIRECT ENTRY**  
**B.ED. EDUCATIONAL ADMINISTRATION AND PLANNING**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional life	3	-
GEDS 400	Introduction to Entrepreneurial Skills	2	-
	<b>CORE COURSES</b>		
EDUC 305	Curriculum Development and Instruction I	2	-
EDUC 412	Introduction to Special Education		2
EDUC 413	Guidance and Counseling	2	-
EDPA 406	National and International Perspectives of Educational Management	-	2
EDPA 412	Policy Analysis and Emerging Problems in Nigeria Education	-	3
EDPA 414	School Business Management	-	3
EDPA 415	Personnel Management and Evaluation in Education	3	-
EDPA 417	Formal Organisation Innovative Process and Change	3	-
EDUC 490	Research Project	-	6
	Choose 4 courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (46 Credits)</b>	<b>24</b>	<b>22</b>

**ENTRY LEVEL: 300L**

**B.Ed. EDUCATIONAL ADMINISTRATION AND PLANNING  
300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Methods I	-	3
EDUC 300	Teaching Practice II / Industrial Training in Educational Administration	-	3
EDUC 302	Test, Measurement and Evaluation in Education	-	3
EDUC 303	Educational Planning and Administration	2	-
EDUC 311	Research Methods in Education	3	
EDPA 303	Leadership in Formal Organization	2	-
EDPA 305	Introduction to Administrative Theories	2	-
EDPA 306	School Community Relationship	-	2
EDPA 308	Economics of Education	-	3
EDPA 314	Educational Evaluation and Finance	-	3
	Choose 4 credits course relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (47 Credits)</b>	<b>24</b>	<b>23</b>

## DIRECT ENTRY

### B.ED. EDUCATIONAL ADMINISTRATION AND PLANNING 400 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional life	3	-
GEDS 400	Introduction to Entrepreneurial Skills	2	-
	<b>CORE COURSES</b>		
EDUC 305	Curriculum Development and Instruction I	2	
EDUC 412	Introduction to Special Education		2
EDUC 413	Guidance and Counseling	2	-
EDPA 406	National and International Perspectives of Educational Management	-	2
EDPA 311	Problems and Issues in Planning Nigeria Education	3	-
EDPA 412	Policy Analysis and Emerging Problems in Nigeria Education	-	3
EDPA 414	School Business Management	-	3
EDPA 415	Personnel Management and Evaluation in Education	3	-
EDPA 417	Formal Organisation Innovative Process and Change	3	-
EDUC 490	Research Project	-	6
	Choose 4 courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (46 Credits)</b>	<b>24</b>	<b>22</b>

## B.ED. EDUCATIONAL ADMINISTRATION AND PLANNING COURSE DESCRIPTIONS

**EDUC 113: TEACHING PROFESSION 3 Credits**

The course provides awareness of basic information about teachers' role in the communities and nation building, professionalism of teaching ethics, unionism and other professional associations in education.

**EDUC104: PHILOSOPHICAL/ SOCIOLOGICAL/PSYCHOLOGICAL FOUNDATIONS OF EDUCATION** **3 Credits**

A study of the educational development and institutions, from ancient times to the present with particular reference to the evolution of modern education in Nigeria. An introduction to major psychological, sociological and philosophical foundations of education.

**EDPA 105 INTRODUCTION OF EDUCATIONAL POLICIES IN NIGERIA 3 CREDITS**

The course examines the concept and development of Educational policies in Nigerian educational system, it discusses the emergence and use of educational policies during the pre-independence era, and the democratic era. Critically examines the development and implementation of the Nation policy on Education.

**EDPA 108 HISTORY OF EDUCATION ADMINISTRATION AND PLANNING IN NIGERIA**  
**3 CREDITS**

The course examines the concept and development of education management in Nigeria. Focusing on the management and control of education in the traditional context, pre-colonial era, pre-independence era, and post independence era. Highlight on the roles of federal, State, and local government; Boards, voluntary agencies in the management of education in Nigeria.

**EDPA 113: ADMINISTRATIVE BEHAVIOUR 3 CREDITS**

Examines the concept of administrative behaviour, focusing on the task that educational administrators engage in towards achieving organizational goals. Also, it examines the movement in the development of administrative theory and practice; highlighting on the emerging leadership behaviour.

**EDPA 213: INTRODUCTION TO EDUCATIONAL ADMINISTRATION AND PLANNING** **3 Credit**

A broad overview of the basic theories, principles, goals and techniques of management practices in education, institutional setting of educational administration and planning; planning approaches; national economic planning and educational planning.

**EDPA 214: TIME-TABLING AND PROGRAMME ORGANIZATION IN NIGERIA SCHOOLS 3 CREDITS**

An examination of the curricular offerings in Nigeria's Secondary Schools and the role of the school administration in programme organization. The principles of time-tabling and analyses of sample time-tables from Nigerian states.

**EDUC 213: INTRODUCTION TO STATISTICS IN EDUCATION 3 Credits**

This course involves analysis and appraisal of statistical data in education, evaluation of techniques used in education which include the descriptive and inferential statistics and application of the statistical methods in educational research.

**ENGC 207: INTRODUCTION TO COMMUNICATION SKILLS IN EDUCATIONAL MANAGEMENT 3 CREDITS**

Hands- on practice on identifying skills required in effective writing for managers. Sample passages, letters, reports are analysed for their effectiveness. Emphasis on lexis and structure, punctuation, use of library, phonetics and the art of public speaking and oral communication.

**EDPA 212: INTRODUCTION TO ADMINISTRATION OF SCHOOL LAW IN NIGERIA 3 CREDITS**

A critical analysis of the educational law in Nigeria; issues and problems in legislation for education. Recruitment, deployment and discipline and certification of students. Code of conduct for teachers, teachers' manual etc.

**EDUC 203: EDUCATIONAL PSYCHOLOGY 3 CREDITS**

The knowledge of the basic principles of psychology and how these could be applied in explaining human behavior generally and in particular, human variability and individual differences as observed in the classroom. The social and environmental factors that hinder full development of the child in the classroom will be discussed.

**EDUC 210, 300: TEACHING PRACTICES I, II/INTERNSHIP/PRACTICUM 3, 3 CREDITS**

It is the six weeks supervised teaching practice. Students are to put into practice the pedagogical skills acquired in the teaching methods course under the mentorship of the professionally trained teachers. The internship/practicum is a three-month period when students of educational administrations are exposed to practical educational administration skills and counselling students are exposed to counselling skills.

**EDUC 204, 301: TEACHING METHODS I, II 3, 3 CREDITS**

Any one of the following method courses

**Language Methods (3 Credits)**

Evaluation of teaching, application of principles of language teaching to specific examples. Audio visual aids in language teaching, implications of language policy for language teaching in schools, original essay on any chosen specific problems of language teaching in schools.

Requirements in WASC English language, French language and Yoruba languages examinations.

**Social science methods (3 Credits)**

Discussion on methods of teaching. Study trips. Techniques of presenting information in social sciences. Preparation and use of teaching aids in social sciences. Organization of specimen teaching sessions on specific topics.

**EDUC 246: EDUCATIONAL/INSTRUCTIONAL TECHNOLOGY 3 Credits**

Explanation and Definition of the Concept of educational/instructional technology, historical development of educational/instructional technology, the history of educational/instructional technology in Nigeria and global historical perspective. Emphasis will be on theories, principles of learning and educational/instructional technology. Audio- visual technology, hardware and software in teaching aids, practical application and software tools for teaching learning, system approach, advances in educational/instructional technology, design and Production of Instructional media, Micro Teaching with interactive Whiteboard (Smart board) will also be taken.

**EDUC 302: TEST, MEASUREMENT AND EVALUATION 3 Credits**

An experience in test construction, administration analysis and interpreter, test, testing, measurement, assessment and evaluation principles of testing evaluation, measurements context. The use of statistics and computer as tools in educational research should be emphasized.

**EDUC 311: RESEARCH METHODS IN EDUCATION 3 Credits**

This course is designed to teach students to understand research methods in education as well as equip them the skill of conducting research and writing research projects. Topics include: introduction to research, definition, Biblical importance of carrying out research, ethics of research, types of research, identifying problems, choosing of research topics, writing of background to the study, Statement of the problem and objective of the study, formulation of research questions and hypothesis, research methodology, construction of questionnaire, method of data analysis, compilation and format of writing references.

**EDPA 311: PROBLEMS AND ISSUES IN PLANNING NIGERIA EDUCATION 3 Credits**

An examination of the National Policy on Education with a view to identifying problems of planning education in Nigeria, conditions for success in educational planning; evaluation of the implementation of the NPE to date.

**EDPA 308: ECONOMICS OF EDUCATION 3 Credits**

Elementary concepts used in Economics of Education, Demand, Supply, National Income, Per Capital Income, Growth Rate, Human and Physical Capital, Investment and Consumption in Education, Cost effectiveness- effectiveness and efficiency in Education

**EDPA 303: LEADERSHIP IN FORMAL ORGANIZATION 2 Credits**

The importance of leadership in an established organization. Types of leadership and styles. The problems of leadership in complex organization such as schools, hospitals, business firms,

military and public bureaucracies. The role of major executives in schools- Principals, Vice principals, HODs, Counsellors, Chairman, Board of Governors etc.

**EDPA 314: EDUCATIONAL EVALUATION AND FINANCE 3 credits**

National and state budgets in relation to education, government and private financing of primary, secondary, post-secondary, university and non-formal education; principles and practices in school budgeting and salary scheduling; the budget as a tool for School Management and performance in education.

**EDPA 305: INTRODUCTION TO ADMINISTRATIVE THEORIES 2 Credits**

Managerial, Human relations, Behavioural approach; examination of points of view of M.Mayo; Mary Parker Follett, Chester Barnard and Herbert Simon.

**EDPA 306: SCHOOL COMMUNITY RELATIONSHIP 2 Credits**

The need for cooperative existence between the school and the community, identification of the school and the community, the role of the principal as liaison officer between the school and the community, local tax for school support and usage of school equipment as service to the community.

**EDPA 406: NATIONAL AND INTERNATIONAL PERSPECTIVE OF EDUCATIONAL MANAGEMENT**

**3 Credits**

An analysis of models of educational management in Nigeria in the context of educational management practices in such countries as the UK, USA, Canada, China and Japan.

**EDPA 412: POLICY ANALYSIS AND EMERGING PROBLEMS IN NIGERIA EDUCATION 3 Credits**

A critical analysis of policy documents and reports in Nigeria Education. The role of interest groups in the process of policy formation and review. The bureaucrats and their impact on policy making; examination of major policies in Nigeria education.

**EDPA 414: SCHOOL BUSINESS MANAGEMENT 3 Credits**

Review of accounting practices in schools. Accounting aids to educational management. School purchasing, supply, risk management, internal control and budgeting. The principal and the Bursar's roles in school administration; contracts and contracting. The powers of the principal, school committee; school Boards and the Ministry of Education.

**EDPA 415: PERSONNEL MANAGEMENT AND EVALUATION IN EDUCATION 3 Credits**

Job analysis and assessment, work load analysis and specification of credentials. Recruitment, selection and deployment of teachers and supportive staff. Administrator- teacher relations. Career patterns in Nigerian education today. Code of ethics; merit rating and evaluation for advancement and promotion.

**EDPA 417: FORMAL ORGANIZATION INNOVATIVE PROCESSES AND CHANGE 3 Credits**

Deliberate and non-deliberate types of change. Administrative strategies for promoting desired changes in organizations such as schools, universities, the Military, Business firms and public bureaucracies; focus on design, human relations strategies, evaluation process, long range strategic planning, political and economic dynamics. Evaluation of programmes and institutions.

**EDPA 419: PRACTICE OF MANAGEMENT AND RECORDS KEEPING      3 Credits**

Office hierarchy and lines of authority, the effective management of office staff, material management- filing systems, sources of information, school records- long book, punishment book, record of work (diary) attendance register, admission register, student records, student placement services.

**EDUC 305/423: CURRICULUM DEVELOPMENT AND INSTRUCTION I, II      2-2 Credits**

A study of the theories and principles of curriculum planning, development, implementation and evaluation. An emphasis on the design and use of varieties of instructional strategies in different contexts. An overview of curriculum innovation in subject matter with particular references to the Nigeria experiences.

**EDUC 412: INTRODUCTION TO SPECIAL EDUCATION      2 Credits**

The classification and etiology of handicapping conditions are studied with a view to provision of an educational programme for various types of exceptionality. Therefore, this course introduces students to the field of special education as it examines the development of this field and enables an understanding of the developmental and learning characteristics of students with all types of exceptionalities. It also emphasizes healthy parent and school relations through effective communication: state and federal regulations impacting services for special needs children; and litigation, regulation, advocacy issues impacting educational and related services for individuals with academic and/ or physical disabilities.

**EDUC 413: GUIDANCE AND COUNSELING      2 Credits**

This course introduce the nature, aims, objectives, theories and methods of guidance and counseling in the Nigerian educational system. An examination of students' needs and problems-biological and environmental, and the importance of guidance and counseling as probable measures for coping with them; such aspects of counseling and guidance-vocational placement, orientation and evaluation and evaluation, and tools for cumulative records, tests and inventories and their uses.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE      3 Credits**

This course will focus on the concept of true education encompassing acquisition of systematic knowledge of the head, heart and hand to enable our graduates be completed in all ramification of world of work. Hence the course will expose the students to effective communication that will enhance good relationship; developing a helping relationship as disciples of Jesus Christ the Master Teacher. Furthermore, the course will inculcate biblical principles in their administrative, planning and teaching activities so as to become committed educators. The knowledge of this course will also create an awareness in students about God and the Bible as the source of knowledge and that all knowledge must lead the students to God. In addition, this course will



undertake the study of the various schools of the Bible viz-a-viz school of Eden, school of the Patriarchs, school of the Desert, school of Canaan, school of the Prophets, school of John the Baptist, school where Jesus learned, school where Jesus taught, school of the Christian Church and school of the Hereafter or Heaven; and bring out the principles highlighted in these schools in other to enable graduates inculcate these principles in their daily living and interaction with members of the community.

#### **EDUC 490: RESEARCH PROJECT**

**6 Credits**

Independent study of a management topic approved by the department under the supervision of a lecturer in the department.

### **B.SC. (ED) ECONOMICS EDUCATION**

#### **100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 107	Introduction to General Psychology	2	
GEDS 112	Health Principles	-	2
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in Global Culture	-	2
GEDS 101	Philosophy of Christian Education	2	
GEDS 105	Use of Library and Study Skills	2	-
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 104	Philosophical/sociological/psychological Foundations of Education	-	3
ECON 101	Principles of Economics I	3	-
ECON 102	Principles of Economics II	-	3
ACCT 108	Basic Accounting	-	3
ECON 131	Introduction to Mathematics for Economics I	3	-
ECON 132	Introduction to Mathematics for Economics II	-	3
BSAD 101	Principles of Managements 1	3	-
	<b>TOTAL (43 Credits)</b>	<b>20</b>	<b>23</b>

## B.SC. (ED) ECONOMICS EDUCATION

### 200 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environmental and Sustainable Development	-	2
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 280	Leadership Skills	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Method 1	-	3
EDUC 210*	Teaching Practice I	-	3*
EDUC 213	Introduction to Statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
ECON 253	Principles of Micro-Economics	3	-
ECON 254	Principles of Macro-Economics	-	3
ECON 225	Structure of Nigerian Economy	3	
ACCT 201	Financial Accounting I	3	-
ACCT 202	Financial Accounting II	-	3
ECON 261	Mathematics for Economists	3	-
ECON 272	Introduction to Financial Economics	-	3
	<b>TOTAL (53 Credits)</b>	<b>27</b>	<b>26</b>

**\*EDUC 210**

**-To be done during the summer**

## B.SC. (ED) ECONOMICS EDUCATION

### 300 LEVEL COURSES

3 <sup>RD</sup> LEVEL COURSES			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to family life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	CORE COURSES		
EDUC 300*	Teaching Practice II	-	3*
EDUC 301	Teaching Methods II	3	-
EDUC 302	Test, Measurements and Evaluation in Education	-	3
EDUC 305	Curriculum Development and Instruction I	2	-
EDUC 303	Educational Planning and Administration	2	-
EDUC 311	Research Methods in Education	3	-
ECON 313	Intermediate Micro-Economics	3	-
ECON 314	Intermediate Macro-Economics	-	3
ECON 336	Public Finance	-	3
ECON 342	Introductory Econometrics	-	3
ECON 338	Economic Development	-	3
ECON 323, 324	History of Economic Thought I, II	3	3
ECONS 341	Operations Research	3	-
	TOTAL (47 Credits)	24	23

**\*EDUC 300      -to be done during the summer**

### B.Sc. (ED) ECONOMICS EDUCATION

#### 400 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	-	2
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
EDUC 412	Introduction to Special Education	-	2
EDUC 413	Guidance and Counseling	2	-
EDUC 423	Curriculum Development and Instruction II	2	-
ECON 401	Advanced Micro-Economics	3	-
ECON 402	Advanced Macro-Economics	-	3
ECON 413	Economic Planning 1	3	-
ECON 423	Econometrics: Theory and Practice	3	-
ECON 453	Taxation and Fiscal Policies	3	-
EDUC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
ECON 433	Comparative Economic Systems	3	-
ECON 460	Petroleum Economics	-	3
ECON 462	Labour Economics and Industrial Relation	-	3
ECON 473	Financial Economics	3	-
	<b>TOTAL (46 Credits)</b>	<b>25</b>	<b>21</b>

**\*Students should take one elective course per semester**

**DIRECT ENTRY  
B.SC. (ED) ECONOMICS EDUCATION  
200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 260	Environmental and Sustainable Development	-	2
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 104	Philosophical/sociological/psychological Foundations of Education	-	3
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Method 1	-	3
EDUC 210	Teaching Practice I	-	3
EDUC 213	Introduction to Statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
ECON 253	Principles of Micro-Economics	3	-
ECON 254	Principles of Macro-Economics	-	3
ECON 225	Structure of Nigerian Economy	3	
ACCT 201, 202	Financial Accounting I, II	3	3
ECON 261	Mathematics for Economists	3	-
ECON 272	Introduction to Financial Economics	-	3
	<b>TOTAL (49 Credits)</b>	<b>24</b>	<b>25</b>

**DIRECT ENTRY**  
**B.SC. (ED) ECONOMICS EDUCATION**  
**300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
EDUC 300	Teaching Practice II	-	3
EDUC 301	Teaching Methods II	3	-
EDUC 302	Test, Measurements and Evaluation in Education	-	3
EDUC 305	Curriculum Development and Instruction I	2	
EDUC 303	Educational Planning and Administration	2	-
EDUC 311	Research Methods in Education	3	-
ECON 313	Intermediate Micro-Economics	3	-
ECON 314	Intermediate Macro-Economics	-	3
ECON 336	Public Finance	-	3
ECON 342	Introductory Econometrics	-	3
ECON 338	Economic Development	-	3
ECON 323, 324	History of Economic Thought I, II	3	3
ECONS 341	Operations Research	3	-
	<b>TOTAL (45 Credits)</b>	<b>22</b>	<b>23</b>

**DIRECT ENTRY**  
**B.Sc. (ED) ECONOMICS EDUCATION**  
**400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurship skills	-	2
GEDS 420	Biblical principles in personal and professional life	3	-
	<b>CORE COURSES</b>		
EDUC 412	Introduction to Special Education	-	2
EDUC 413	Guidance and Counseling	2	-
EDUC 423	Curriculum Development and Instruction II	2	-
ECON 401	Advanced Micro-Economics	3	-
ECON 402	Advanced Macro-Economics	-	3
ECON 413	Economic Planning 1	3	-
ECON 423	Econometrics: Theory and Practice	3	-
ECON 453	Taxation and Fiscal Policies	3	-
EDUC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
ECON 433	Comparative Economic Systems	3	-
ECON 460	Petroleum Economics	-	3
ECON 462	Labour Economics and Industrial Relation	-	3
ECON 473	Financial Economics	3	-
	<b>TOTAL (44 Credits)</b>	<b>25</b>	<b>19</b>

**\*Students should take one elective course per semester**

**DIRECT ENTRY**  
**ENTRY LEVEL: 300L**  
**B.SC. (ED) ECONOMICS EDUCATION**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Method 1	-	3
EDUC 300	Teaching Practice II	-	3
EDUC 301	Teaching Methods II	3	-
EDUC 302	Test, Measurements and Evaluation in Education	-	3
EDUC 305	Curriculum Development and Instruction I	2	-
EDUC 303	Educational Planning and Administration	2	-
EDUC 311	Research Methods in Education	3	-
ECON 313	Intermediate Micro-Economics	3	-
ECON 314	Intermediate Macro-Economics	-	3
ECON 336	Public Finance	-	3
ECON 342	Introductory Econometrics	-	3
ECON 338	Economic Development	-	3
ECON 323, 324	History of Economic Thought I, II	3	3
	<b>TOTAL (49 Credits)</b>	<b>25</b>	<b>24</b>



**DIRECT ENTRY**  
**B.Sc. (ED) ECONOMICS EDUCATION**  
**400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurship skills	-	2
GEDS 420	Biblical principles in personal and professional life	3	-
	<b>CORE COURSES</b>		
EDUC 412	Introduction to Special Education	-	2
EDUC 413	Guidance and Counseling	2	-
EDUC 423	Curriculum Development and Instruction II	2	-
ECON 401	Advanced Micro-Economics	3	-
ECON 402	Advanced Macro-Economics	-	3
ECON 413	Economic Planning 1	3	-
ECON 423	Econometrics: Theory and Practice	3	-
ECON 453	Taxation and Fiscal Policies	3	-
EDUC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
ECON 433	Comparative Economic Systems	3	-
ECON 460	Petroleum Economics	-	3
ECON 462	Labour Economics and Industrial Relation	-	3
ECON 473	Financial Economics	3	-
	<b>TOTAL (44 Credits)</b>	<b>25</b>	<b>19</b>

**\*Students should take one elective course per semester**

## **B.SC. (ED) ECONOMICS EDUCATION COURSE DESCRIPTIONS**

### **EDUC 113: TEACHING PROFESSION 3 Credits**

The course provides awareness of basic information about teachers' role in the communities and nation building, professionalism of teaching ethics, unionism and other professional associations in education.

### **EDUC104: PHILOSOPHICAL / SOCIOLOGICAL/ PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credits**

A study of the educational development and institutions, from ancient times to the present with particular reference to the evolution of modern education in Nigeria. An introduction to major psychological, sociological and philosophical foundations of education.

### **ECON 131: INTRODUCTION TO MATHEMATICS FOR ECONOMICS 1 3 Credits**

Mathematics concepts in Social Sciences. Set Theory and applications, surds. Polynomials up to degree 3 and their factorization. Exponent. Indices. Logarithms. Equations and functions Linear, quadratic, cubic, etc., Simultaneous equations, Trigonometry. Series and Sequences. Inequalities, Matrices; types operations with Matrices, Determinations, and increase of a Square Matrix and Simultaneous equations.

### **ECON 132: INTRODUCTION TO MATHEMATICS FOR ECONOMICS 11 3 Credits**

Introduction to Calculus differentiation, integration of exponential Logarithmic and trigonometric functions. Inverse trigonometric functions. General input functions. Economic applications of differentiation, integration, exponential logarithmic and trigonometric functions. Definite and indefinite integrals; economic applications, permutations and combinations.

### **ACCT 108: BASIC ACCOUNTING 3 Credits**

History and Development of Accounting. The nature and scope of accounting, the role of accounting, users of financial statement; introducing statement of Accounting Standard 1 & 2 (S.A.S. 1 & 2), the accounting functions and its relationship with the information statement of organizations, accounting functions and its relationship with the information system of

organizations, accounting procedure and systems, Basic documentation process, double entry book-keeping system, the trial balance, Accruals, Pre-payments and adjustments, Books of prime entry and recording in the ledger, classification of expenditure entry and recording in the ledger, classification of expenditure entry recording in the ledger, classification of expenditure between capital and revenue items, methods of recording accounting data; manual and mechanical, bank reconciliation statement, preparation of debtors and creditors statement. Accounting for fixed assets acquisition, depreciation, disposal and fixed assets schedule, extended trial balance and correction of errors using suspense account, extend trial balance and correction of errors using suspense account and journal, account of a sole trader. Any other topical issue related to accounting. Reserves and provisions, payroll accounting, preparation of final account, manufacturing, trading, profit and loss accounts, balance sheet for sole-proprietorship, partnership and limited liability companies, partnership agreement, preparation of final accounts. Preparation of income and expenditure accounts and balance sheet or statement of affairs of non-profit making organization. Preparation of final accounts from incomplete records, simple joint venture accounts and others.

**ECON 101: PRINCIPLES OF ECONOMICS 1 3 Credits**

An introduction to the various issues in economics, the nature of economic science, the methodology of economics, major areas of specialization in economics, stressing historical development of “ideas, elementary principles of micro and macroeconomics, current issues of interest in economics and probable future development.

**ECON 102: PRINCIPLES OF ECONOMICS 11 3 Credits**

Knowledge of basic concepts of economic principles; concepts and tools for economic analysis. Knowledge of the structure and functioning of economics institutions and various economic systems; national income accounting; the functions of money and policies for controlling inflation, the problem of business cycle.

**BSAD 101: PRINCIPLES OF MANAGERIALS 1 3 Credits**

Define and explain the nature of Business, Examine the managerial functions, levels and skills. Define and explain the nature of business. Identify and explain the forms/types of business ownership/ organization, dimension of organizational structure. Business ethics/social responsibility of a business/corporate body. Understand the nature of Business Environment and its relevance for policy decisions to be made by the management of any organization. The basic concepts, principles and techniques of management. Apply the concepts, Principles and techniques in the solution of management problems. The objective of this course is to make the students understand that God the creator of human and material resources is the greatest manager.

**EDUC 203: EDUCATIONAL PSYCHOLOGY 3 Credits**

The knowledge of the basic principles of psychology and how these could be applied in explaining human behavior generally and in particular, human variability and individual differences as observed in the classroom. The social and environmental factors that hinder full development of the child in the classroom will be discussed.

**EDUC 210, 300: TEACHING PRACTICES I, II 3, 3 Credits**

An elective approach to the design process application and effects of technology in teaching-learning situations. Emphasis is on the improvisation with local resources.

**EDUC 204, 301: TEACHING METHODS I, II                      3, 3 Credits**

Any one of the following method courses

**Language Methods (3 Credits)**

Evaluation of teaching, application of principles of language teaching to specific examples. Audio visual aids in language teaching, implications of language policy for language teaching in schools, original essay on any chosen specific problems of language teaching in schools. Requirements in WASC English language, French language and Yoruba languages examinations.

**Social science methods (3 Credits)**

Discussion on methods of teaching. Study trips. Techniques of presenting information in social sciences. Preparation and use of teaching aids in social sciences. Organization of specimen teaching sessions on specific topics

**EDUC 246: EDUCATIONAL/INSTRUCTIONAL TECHNOLOGY    3 Credits**

Explanation and Definition of the Concept of educational/instructional technology, historical development of educational/instructional technology, the history of educational/instructional technology in Nigeria and global historical perspective. Emphasis will be on theories, principles of learning and educational/instructional technology. Audio- visual technology, hardware and software in teaching aids, practical application and software tools for teaching learning, system approach, advances in educational/instructional technology, design and Production of Instructional media, Micro Teaching with interactive Whiteboard (Smart board) will also be taken.

**ECON 253: PRINCIPLES OF MICRO-ECONOMICS 1            3 Credits**

Micro-economic theory, problem of scarce resources and allocation of resources in product and factor markets with application to Nigerian and other economies: equilibrium concept, possibility of disequilibrium, partial and general equilibrium analysis. Demand and Supply theory. Concept of elasticity; types, numerical value of elasticity co-efficient and interpretation, applications.

**ECON 254: PRINCIPLES OF MACRO-ECONOMICS                      3 Credits**

The meaning and scope of macroeconomics, macroeconomics topics. Macroeconomics variables or indicators of the economy. Classical and Keynesian Schools of Thought in Macroeconomics. Stock Flow concepts in macroeconomics. Tools of Macroeconomics analysis, models, variables and parameters. Measurement of economic activities-National Income Accounting. The concept of National Income, Gross Domestic Product (GDP), Gross National Product (GNP), and Net National Product (NNP). National Income Models and their components, national Income Equilibrium for various models, Marginal propensity and multipliers. Stabilization of the domestic economy monetary and fiscal policies. Inflation, Inflation and Unemployment: Philip's curve.

**ACCT 201, 202:            FINANCIAL ACCOUNTING I, II                      3-3 Credits**

Company accounts, formation, issue and redemption of shares and debentures, final account for internal use and publication including cash flow statement. Five years financial summary, value

added statement etc. including cash flow/fund flow statement etc. including statutory requirement of company accounts in respect to each area; miscellaneous account; joint venture, royalties, consignment, farmers, goods on sales or return departmental accounts, branch accounts (home/local branches). Solicitors accounts voyage, underwriting cooperative accounts, any other topical issues.

**ECON 323: HISTORY OF ECONOMIC THOUGHT I**

**3 Credits**

Comparative survey and assessment in economic thought. Ideal of the early Christian fathers. Islamic ideas on economic activity. Classical economics, neo-classical school of thought, positive and welfare school of economic thought; institutional economics, Keynesian school of economic thought, Evolution and contemporary state of development in economics. Marginalists and modern schools of economic thought. African economic ideas. Future prospects. The biblical example of God's accuracy as shown in creation and prophecy fulfillment will be emphasized.

**ECON 324: HISTORY OF ECONOMIC THOUGHT II**

**3 Credits**

Calculation debate: Lange vs Hayek; Scheempeter; revival of the debate in the 1980s and 1990s. Strategic thinking; why Cournot was a neglected figure? Nash, rewriting of the Neo classical economics. Neoliberalism: what are we talking about? New – institutionalism: would Veblem approve? Early discontent: Veblem. The 1929 crisis and its “solution” Keynes. Experimental economics; how rational individuals are? Becker: everything to be framed as cost and benefit analysis. Development of economics theories – theory of rent, theory of wage, theory of interest, theory of profit, theory of trade cycle. Contributions of nobal economist – Joseph Alois Scheempeter, Sir John Hicks, Milton Friedman etc. Learning from the past in Nigeria: what made the first republic of Nigeria more successful (if at all) in economic growth and development compared to what we have in recent times. All economic principles and laws are traceable to biblical ideas – the teaching of Jesus Christ and his followers.

**ECON 261: MATHEMATICS FOR ECONOMISTS**

**3 Credits**

The development in Nigerian Federal Finance. The main issues in federal finance structure of public revenue. Structure of public expenditure.\* Inter-governmental transfer, regional state revenues. Problems of public debt in Nigeria. Budgetary process of Nigerian government.

**ECON 225: STRUCTURE OF NIGERIAN ECONOMY**

**3 Credits**

Analysis of development in the pre-colonial and post colonial periods with regards to development of economic and social organization, Role of agriculture, industry, monetization and banking and international trade in Nigeria economic development. Growth of income employment, wages and prices. Public development institutions. International Income and Expenditure monetary and Fiscal Policies Monetary Institutions. Trade, Transport system. Contributions of sectors of the Nigeria economy to national output Relationship between these sectors. Role of national institutions. Economic development and social change.

**ECON 272: INTRODUCTION TO FINANCIAL ECONOMICS**

**3 Credits**

The nature and functions of financial intermediation, the process of financial intermediation, an overview of Nigeria financial system, types of banking institutions and their functions, e.g

Central Bank of Nigeria, Commercial Banks, Development Banks; Bank Balance Sheet and liquidity management, tools of monetary policy, fundamental.

**EDUC 311: RESEARCH METHODS IN EDUCATION                      3Credits**

This course is designed to teach students to understand research methods in education as well as equip them the skill of conducting research and writing research projects. Topics include: introduction to research, definition, Biblical importance of carrying out research, ethics of research, types of research, identifying problems, choosing of research topics, writing of background to the study, Statement of the problem and objective of the study, formulation of research questions and hypothesis, research methodology, construction of questionnaire, method of data analysis, compilation and format of writing references.

**EDUC 302: TEST, MEASUREMENT AND EVALUATION IN EDUCATION                      3 Credits**

An experience in test construction, administration analysis and interpreter, test, testing, measurement, assessment and evaluation principles of testing evaluation, measurements context. The use of statistics and computer as tools in educational research should be emphasized.

**ECON 313: INTERMEDIATE MICRO-ECONOMICS                      3 Credits**

More advanced and mathematical treatment of micro-economic theory with incorporation of linear programming, Advanced price and output determination under perfect competition, oligopoly and monopoly. Exchange theory, offer curves and contract curves, introduction to capital theory and types of production functions.

**ECON 314: INTERMEDIATE MACRO-ECONOMICS                      3 Credits**

Concept of national income; Classical, Rational income models. Keynesian and monetarist systems compared, Problems of unemployment and inflation, IS-LM analytical apparatus in discussion of relative effectiveness of monetary and fiscal policy. National Income models.

**ECON 342: INTRODUCTORY ECONOMETRICS                      3 Credits**

Definition and Scope of Econometrics. Econometrics and Mathematical Economics. Econometric research methodology. Stages in an econometric research. Properties of an econometric model. Correlation and regression analysis. Measure of linear correlation. Numerical values of the correlation co-efficient. Sample correlation coefficient. Spearman Rank correlation co-efficient. Partial correlation co-efficient. Test of significance in correlation. Regression analysis, Definition of regression. Simple linear regression model. Relationship between price elasticity of supply and its co-efficient. The random term and its function. The assumption of the random term. Distribution of the dependent variable Y. Least Square criterion and Normal equation of OLS.

**ECON 336: PUBLIC FINANCE                      3 Credits**

Development of Nigerian federal finance, meaning and scope of public finance, main issue in federal finance structure, structure of public revenue and expenditure in Nigeria, financing public

sector enterprises, problems of public debts in Nigeria, processing of budgetary( federal and state) governments in Nigeria, public sector financing and good governance.

**ECON 341:                      OPERATIONS RESEARCH                      3 Credits**

Definition. Historical development. Characteristic features of operations research. Stages in operations research study. Limitations of an operational research study. Modeling in operations research. Decision Analysis. Linear programming. Games Theory, Queuing Theory. Assignment Problems. Transportation problems. Their applications to optimization situations or competitive environment.

**ECON 338:                      ECONOMIC DEVELOPMENT                      3 Credits**

The rationale for planning. Planning origins, types and performance, planning machinery, the planning process, planning decision models, planning data, objectives and policy formation, plan implementation, development planning in Nigeria, development and underdevelopment, economic and non-economic factors in development experience, survey of development theories, national endowment, human resources, structural transformation, trade and aid, and cost prices.

**EDUC 303 EDUCATIONAL PLANNING AND ADMINISTRATION 2 Credits**

A broad overview of the basic theories, principles, goals and techniques of management practices in education, institutional setting of educational administration and planning; planning approaches; national economic planning and educational planning.

**EDUC 305/423: CURRICULUM DEVELOPMENT AND INSTRUCTION 2-2 Credits**

A study of the theories and principles of curriculum planning, development, implementation and evaluation. An emphasis on the design and use of varieties of instructional strategies in different contexts. An overview of curriculum innovation in subject matter with particular references to the Nigeria experiences.

**EDUC 412: INTRODUCTION TO SPECIAL EDUCATION 2 Credits**

The classification and etiology of handicapping conditions are studied with a view to provision of an educational programme for various types of exceptionality. Therefore, this course introduces students to the field of special education as it examines the development of this field and enables an understanding of the developmental and learning characteristics of students with all types of exceptionalities. It also emphasizes healthy parent and school relations through effective communication: state and federal regulations impacting services for special needs children; and litigation, regulation, advocacy issues impacting educational and related services for individuals with academic and/ or physical disabilities.

**EDUC 413: GUIDANCE AND COUNSELING                      2 Credits**

This course introduce the nature, aims, objectives, theories and methods of guidance and counseling in the Nigerian educational system. An examination of students' needs and problems-biological and environmental, and the importance of guidance and counseling as probable measures for coping with them; such aspects of counseling and guidance-vocational placement, orientation and evaluation and evaluation, and tools for cumulative records, tests and inventories and their uses.

**ECON 401: ADVANCED MICRO-ECONOMICS****3 Credits**

Fundamental quantitative relationships. General equilibrium and disequilibrium. Dynamic analysis, value theory, production functions, duopoly, oligopoly, bilateral monopoly and monopoly. Theories of determination of wages, rent, interest and profit. Optimization in theories of consumption and production. The notion of economic efficiency. Efficiency and equity: Externalities. Social and private costs. Pareto optimum. Social welfare functions.

**ECON 402: ADVANCED MACRO-ECONOMICS****3 Credits**

Basic model of income determination. Extension from simple closed economy to a four sector economy. Detailed theories of consumption and investment functions. The classical Keynesian models of employment, and output. Capital theory. Theories of money, prices and interest. Introduction to models of economic growth. Macro-economic policies and optimal allocation of resources.

**ECON 413: ECONOMIC PLANNING I****3 Credits**

Economic planning:- Meaning, Terminologies and Contemporary Issues .Meaning and Definition of Economic Planning .Objectives of economic planning .Rationale for planning .Need and Challenges of Economic Planning .Methodology of Economic Planning .Types of Economic Planning:-Planning by Direction and Inducement, Financial and Physical Planning ,Perspective and Annual Planning ,Indicative and Imperative Planning, Democratic and Totalitarian Planning, Rolling and Fixed Plans ,Centralized and Decentralized Planning, Comparative planning systems ,Planning under Capitalism, Socialism ,Planning in a Mixed Economy. Theories and Models of Economic Planning , What are Economic Planning Models, Types of Planning models , Classical Theories of Economic Development Planning , Relevance of development models to economic planning .Planning Experiences in other Countries of the World. Features and types of planning in developing nations. The main features of economic planning in developing countries. Planning experience of selected developed countries. Comparisons of economic plan of developing and developed nations. Medium Term Expenditure Framework Planning models. **Biblical principles of economic planning. Integrating integrity into the planning process.**

**ECON 414: ECONOMIC PLANNING II****3 Credits**

Meaning and concept of economic development and growth. Measurement of economic development. Human Development Index. Concept and Approaches of Economic Growth and Development. Economic growth and Economic development .Sustainable development. The concept of under-development. The concept of national planning in Nigeria; Planning and Development experience in Nigeria and developing countries; Pre- independence to SAP era ; National economic plans during and after SAP era ; Visions and policy statements of economic plans in Nigeria. Planning techniques:- Social Accounting Framework ; Input – Output analysis ; Capital-Output; Linear programming ; Network analysis in planning ;Resources projection and constituency test ; Programme and planning balance. **Biblical principles of economic planning. Integrating integrity into the planning process**

**ECON 423: ECONOMETRICS: THEORY AND PRACTICE****3 Credits**

Extensions of the two variable linear model; introduction to matrix algebra and algebra in models estimation; the General Violations of linear model assumptions and the correction of serial



correlation (auto correlation) of the errors, inter-correlation (multicollinearity) of the variables, stochastic regressions and errors in variables; identification problem; meaning, detection and correlation; simultaneous models and estimations; K-elars estimators and the choice of estimators. Practical solution of problems and familiarity with the computer to be nurtured and encouraged.

### **ECON 453: TAXATION AND FISCAL POLICIES**

**3 Credits**

Nigerian system of Income Tax Administration: structure and procedures, returns, assessments, appeal, postponement, collection; with reference to all necessary legislation. Distinction between the taxation of capital, personal income tax; the law and practice of Income Tax relating to individuals, exemptions, settlements, trusts, and estates. Partnership assessments, treatments of losses. Computation of assessable income commencement and cessation of trade or business. Company Tax - the principles and scope of Company Tax. The small company provisions including definitions, computations and exemptions.

### **ECON 460: PETROLEUM ECONOMICS**

**3 Credit**

The early and modern structure of World oil market; the evolution of OPEC control oil as the 'swing fuel' in the energy industry market; detailed treatment of the other conventional sources of energy viz, coal, hydro, gas, forests etc. Non-conventional sources of energy viz; solar, unclear, biogas, geothermal, waves, tar sands etc. Future energy demand and supply in Nigeria.

### **ECON 462: LABOUR ECONOMICS AND INDUSTRIAL RELATIONS**

**3 Credits**

The concept of industrial relations. Trade Union characteristics. Industrial Relations Laws in Nigeria. Types of Unions; Internal Structures and Government of Unions; Trade Union Federation; Central Labor Organization and International Affiliations. Union Solidarity and Check-Off systems. Collective Bargaining; industrial disputes; dispute settlement; Joint Consultation; The State and Industrial Relations. Comparative Industrial Relations.

### **GEDS 420- BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

This course will focus on the concept of true education encompassing acquisition of systematic knowledge of the head, heart and hand to enable our graduates be completed in all ramification of world of work. Hence the course will expose the students to effective commination that will enhance good relationship; developing a helping relationship as disciples of Jesus Christ the Master Teacher. Furthermore, the course will inculcate biblical principles in their administrative, planning and teaching activities so as to become committed educators. The knowledge of this course will also create an awareness in students about God and the Bible as the source of knowledge and that all knowledge must lead the students to God. In addition, this course will undertake the study of the various schools of the Bible viz-a-viz school of Eden, school of the Patriarchs, school of the Desert, school of Canaan, school of the Prophets, school of John the Baptist, school where Jesus learned, school where Jesus taught, school of the Christian Church and school of the Hereafter or Heaven; and bring out the principles highlighted in these schools in other to enable graduates inculcate these principles in their daily living and interaction with members of the community.

### **ECON 433: COMPARATIVE ECONOMIC SYSTEMS**

**3 Credits**

Meaning of economic system. Evolution and classification of economic systems – Primitive society, slave-holding, Feudal, Capitalist, Socialist, and Communist economic systems. Economic system in transition. Features of the Economic System. Comparative analysis of the systems. Developed and underdeveloped economy. Features of underdeveloped economy. Development Policy Framework in Nigeria – The NEEDS document.

**ECON 473: FINANCIAL ECONOMICS 3Credits**

The nature and functions of financial intermediation: The process of financial Intermediation; An overview of Nigeria financial system, Types of Banking institutions and their functions, e.g. Central Bank of Nigeria, Commercial Banks, Development Banks; Bank Balance Sheet and liquidity management; Tools of monetary policy, Fundamental. Theories of money including classical, monetarist and Keynesian, Analysis of Inflation and Exchange Rate System; Trading and Reserve currencies, e.g. gold, Special Drawing Rights (SDR). The role of IMF in managing international liquidity; reason for the globalization of financial market; Balance of payment definition and composition; international financial institutions, e.g. ADB, EU, ECOWAS, Financial and Economic Policies and Institutions of the government, e.g. NDIC, BOFID, EFCC – their roles in the financial system of the country.

**ECON 490: RESEARCH PROJECT 6 Credits**

Independent study of a management topic approved by the department under the supervision of a Lecturer in the department.

**B.A. (Ed) ENGLISH EDUCATION  
100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 104	Philosophical/sociological/psychological Foundations of Education	-	3
ENGL 101	Basic Grammar	3	-
ENGL 102	English composition	-	3
ENGL 104	Introduction to Poetry	-	3

ENGL 113	Practical Spoken English	3	-
ENGL 121	Introduction to Prose Fiction	3	-
ENGL 124	Introduction to Drama	-	3
ENGL 126	Introduction to the Theatre	-	2
ENGL 133	Literary Appreciation	2	-
ENGC 104	Introduction to the Study of Reading	-	2
	<b>TOTAL (45 Credits)</b>	<b>20</b>	<b>25</b>

**B.A. (Ed) ENGLISH EDUCATION  
200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environmental and Sustainable Development	-	2
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 280	Leadership Skills	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Methods I	-	3
EDUC 210	Teaching Practice I	-	3*
EDUC 213	Introduction to statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
ENGL 202	History of the English Language	-	3

ENGL 205	Varieties of English	3	-
ENGL 211	Introduction to English Phonetics and Phonology	3	-
ENGL 233	Modern African Literature: A Survey	3	-
ENGL 236	Nigerian Literature in English	-	3
ENGL 242	Creative writing	-	2
	<b>TOTAL (49 Credits)</b>	<b>24</b>	<b>25</b>

**\*EDUC 210**

**-To be done during the summer**

**B.A. (Ed) ENGLISH EDUCATION  
300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	-	2
	<b>CORE COURSE</b>		
EDUC 300	Teaching Practice II	-	3*
EDUC 301	Teaching Methods II	3	-
EDUC 302	Test, Measurement and Evaluation in Education	-	3
EDUC 303	Educational planning and Administration	2	-
EDUC 311	Research Methods in Education	3	-
EDUC 305	Curriculum Development and Instruction I	2	
ENGL 301	English Phonology	3	-
ENGL 302	English Syntax and Lexis	-	3
ENGL 303	Stylistics	3	-
ENGL 332	Contemporary African Poetry	-	3

ENGL 338	Contemporary African Drama	-	3
ENGL 343	Teaching English as a 2 <sup>nd</sup> Language	2	-
	<b>*ELECTIVE COURSES</b>		
ENGL 339	Theories of Second Language Acquisition and Use	2	-
ENGL 341	The Language of Journalism	2	-
	<b>TOTAL (44 Credits)</b>	<b>23</b>	<b>19</b>

**\*\*EDUC 300 -To be done during the summer**

**\* Students are to choose one elective course in first semester.**

**B.A. (Ed) ENGLISH EDUCATION  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 440	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
EDUC 412	Introduction to Special Education	-	2
EDUC 413	Guidance and Counseling	2	-
EDUC 423	Curriculum Development and Instruction II	2	-
ENGL 407	Grammatical Theories I: TGG	3	-
ENGL 411	English for Specific Purposes	3	-
ENGL 436	Pragmatics	-	3
ENGL 438	Grammatical Theories II: SFG	-	3
ENGL 452	Introduction to Text - Linguistics	-	3
ENGL 453	Introduction to Sociolinguistics	3	-
EDUC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		

ENGL 417	The Language of Publishing	(3)	
ENGL 444	The Language of African-American Literature		(2)
ENGL 463	The language of Journalism	(2)	
ENGL 464	The Language of African Literature in English		(2)
	<b>TOTAL (42/43 Credits)</b>	<b>21/22</b>	<b>21</b>

**\* Students are to choose one elective course in first semester.**

**DIRECT ENTRY  
ENTRY LEVEL: 200L  
B.A. (Ed) ENGLISH EDUCATION  
200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 260	Environmental and Sustainable Development	-	2
	<b>CORE COURSES</b>		
EDUC 104	Philosophical/sociological/psychological Foundations of Education	-	3
EDUC 113	Teaching Profession	3	-
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Methods I	-	3
EDUC 210	Teaching Practice I	-	3
EDUC 213	Introduction to statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
ENGL 202	History of the English Language	-	3
ENGL 205	Varieties of English	3	-

ENGL 211	Introduction to English Phonetics and Phonology	3	-
ENGL 233	Modern African Literature: A Survey	3	-
ENGL 236	Nigerian Literature in English	-	3
ENGL 242	Creative writing	-	2
	<b>TOTAL (43 Credits)</b>	<b>21</b>	<b>22</b>

**DIRECT ENTRY**  
**B.A. (Ed) ENGLISH EDUCATION**  
**300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSE</b>		
EDUC 300	Teaching Practice II	-	3
EDUC 301	Teaching Methods II	3	-
EDUC 302	Test, Measurement and Evaluation in Education	-	3
EDUC 303	Educational planning and Administration	2	-
EDUC 311	Research Methods in Education	3	-
EDUC 305	Curriculum Development and Instruction I	2	
ENGL 301	English Phonology	3	-
ENGL 302	English Syntax and Lexis	-	3
ENGL 332	Contemporary African Poetry	-	3
ENGL 338	Contemporary African Drama	-	3

ENGL 343	Teaching English as a 2 <sup>nd</sup> Language	2	-
	<b>*ELECTIVE COURSES</b>		
ENGL 339	Theories of Second Language Acquisition and Use	2	-
ENGL 341	The Language of Journalism	2	-
	<b>TOTAL (37 Credits)</b>	<b>20</b>	<b>17</b>

**\*Students are to choose one elective course in first semester.**

**DIRECT ENTRY  
B.A. (Ed) ENGLISH EDUCATION  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 400	Introduction to Entrepreneurial Skills	2	-
	<b>CORE COURSES</b>		
EDUC 412	Introduction to Special Education	-	2
EDUC 413	Guidance and Counseling	2	-
EDUC 423	Curriculum Development and Instruction II	2	-
ENGL 303	Stylistics	3	-
ENGL 407	Grammatical Theories I: TGG	3	-
ENGL 411	English for Specific Purposes	3	-
ENGL 436	Pragmatics	-	3
ENGL 438	Grammatical Theories II: SFG	-	3
ENGL 452	Introduction to Text - Linguistics	-	3
EDUC 490	Research Project	-	6



	<b>*ELECTIVE COURSES</b>		
ENGL 417	The Language of Publishing	(3)	
ENGL 444	The Language of African-American Literature		(2)
ENGL 463	The language of Journalism	(2)	
ENGL 464	The Language of African Literature in English		(2)
	<b>TOTAL (39/40 Credits)</b>	<b>20/21</b>	<b>19</b>

**\* Students are to choose one elective course in first semester.**

**DIRECT ENTRY  
ENTRY LEVEL: 300L  
B.A. (Ed) ENGLISH EDUCATION  
300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSE</b>		
EDUC 113	Teaching Profession	3	-
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Methods I	-	3
EDUC 300	Teaching Practice II	-	3
EDUC 301	Teaching Methods II	3	-
EDUC 302	Test, Measurement and Evaluation in Education	-	3
EDUC 303	Educational planning and Administration	2	-
EDUC 311	Research Methods in Education	3	-
EDUC 305	Curriculum Development and Instruction I	2	
ENGL 302	English Syntax and Lexis	-	3
ENGL 332	Contemporary African Poetry	-	3

ENGL 338	Contemporary African Drama	-	3
ENGL 343	Teaching English as a 2 <sup>nd</sup> Language	2	-
	<b>*ELECTIVE COURSES</b>		
ENGL 339	Theories of Second Language Acquisition and Use	2	-
ENGL 341	The Language of Journalism	2	-
	<b>TOTAL (43 Credits)</b>	<b>25</b>	<b>18</b>

**\* Students are to choose one elective course in first semester.**

**DIRECT ENTRY  
B.A. (Ed) ENGLISH EDUCATION  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 400	Introduction to Entrepreneurial Skills	2	-
	<b>CORE COURSES</b>		
EDUC 412	Introduction to Special Education	-	2
EDUC 413	Guidance and Counseling	2	-
EDUC 423	Curriculum Development and Instruction II	2	-
ENGL 301	English Phonology	3	-
ENGL 303	Stylistics	3	-
ENGL 407	Grammatical Theories I: TGG	3	-
ENGL 411	English for Specific Purposes	3	-
ENGL 436	Pragmatics	-	3
ENGL 438	Grammatical Theories II: SFG	-	3
ENGL 452	Introduction to Text - Linguistics	-	3

EDUC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
ENGL 417	The Language of Publishing	(3)	
ENGL 444	The Language of African-American Literature		(2)
ENGL 463	The language of Journalism	(2)	
ENGL 464	The Language of African Literature in English		(2)
	<b>TOTAL (43/44 Credits)</b>	<b>24/25</b>	<b>19</b>

**\* Students are to choose one elective course in first semester.**

### **B.A. (Ed.) ENGLISH EDUCATION COURSE DESCRIPTIONS**

#### **EDUC 113: TEACHING PROFESSION 3 Credits**

The course provides awareness of basic information about teachers' role in the communities and nation building, professionalism of teaching ethics, unionism and other professional associations in education.

#### **EDUC 104: PHILOSOPHICAL/ SOCIOLOGICAL/ PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credits**

A study of the educational development and institutions, from ancient times to the present with particular reference to the evolution of modern education in Nigeria. An introduction to major psychological, sociological and philosophical foundations of education.

#### **ENGL 101: BASIC GRAMMAR 3 Credits**

This course aims at laying a solid foundation in grammar for the fresh students studying English. It should take off from a remediation of the grammatical problems of students from the SSCE level. Emphasis should be on the English parts of speech, concord, expressions and mechanics. The end-product should be to produce undergraduates whose writings (or speech) will be flawless.

**ENGL 102: ENGLISH COMPOSITION 3 Credits**

This is a practical course in writing for students specializing in English. Attention will be focused on letter writing, spelling, word building, paragraphing and outlining. The production of a minimum of four essays by each student is envisaged.

**ENGL 104: INTRODUCTION TO POETRY 3 Credits**

The course introduces the students, to the nature, form, varieties and characteristics of poetry. Emphasis is on poetic form and language.

**ENGL 113: PRACTICAL SPOKEN ENGLISH 3 Credits**

This course aims at improving the students' speech production. Attention will be focused on the correction of interference features in the sentence, word stress, and intonation. Individual development of internationally intelligible educated English will be encouraged. The examination may include practical.

**ENGL 121: INTRODUCTION TO PROSE FICTION 3 Credits**

The course introduces the students to the novel as an art form. Emphasis is placed on the techniques of fiction, characterization, plot, story, dialogue, and thematic development.

**ENGL 124: INTRODUCTION TO DRAMA 3 Credits**

The course introduces the student to the nature, form, and characteristics of drama. Emphasis is on action, dialogue and the techniques, of drama analysis.

**ENGL 126: INTRODUCTION TO THE THEATRE 2 Credits**

The course examines the nature of the theater as well as its diversity and scope in terms of its development from earliest times.

**ENGL 133: LITERARY APPRECIATION 2 Credits**

The course involves a close textual analysis and appreciation of prose passages, plays, and poems, mastering of the required techniques is to be emphasized.

**ENGL 104: INTRODUCTION TO THE STUDY OF READING 2 Credits**

The course introduces the Study of Reading as Communication/Language Arts with emphasis on Linguistic and Psycholinguistic Approaches.

**EDUC 203: EDUCATIONAL PSYCHOLOGY 3 Credits**

The knowledge of the basic principles of psychology and how these could be applied in explaining human behavior generally and in particular, human variability and individual differences as observed in the classroom. The social and environmental factors that hinder full development of the child in the classroom will be discussed.

**EDUC 210, 300: TEACHING PRACTICES I, II 3, 3 Credits**

An elective approach to the design process application and effects of technology in teaching-learning situations. Emphasis is on the improvisation with local resources.

**EDUC 204, 301: TEACHING METHODS I, II 3, 3 Credits**

Any one of the following method courses

**Language Methods (3 Credits)**

Evaluation of teaching, application of principles of language teaching to specific examples. Audio visual aids in language teaching, implications of language policy for language teaching in schools, original essay on any chosen specific problems of language teaching in schools. Requirements in WASC English language, French language and Yoruba languages examinations.

**Social science methods (3 Credits)**

Discussion on methods of teaching. Study trips. Techniques of presenting information in social sciences. Preparation and use of teaching aids in social sciences. Organization of specimen teaching sessions on specific topics.

**EDUC 246: EDUCATIONAL/INSTRUCTIONAL TECHNOLOGY 3 Credits**

Explanation and definition of the concept of educational/instructional technology, historical development of educational/instructional technology, the history of educational/instructional technology in Nigeria and global historical perspective. Emphasis will be on theories, principles of learning and educational/instructional technology. Audio- visual technology, hardware and software in teaching aids, practical application and software tools for teaching learning. System approach, advances in educational/instructional technology, Design and Production of Instructional media, Micro Teaching with interactive Whiteboard (Smart board) will also be taken.

**EDUC 213: INTRODUCTION TO STATISTICS IN EDUCATION 3 Credits**

This course involves analysis and appraisal of statistical data in education, evaluation of techniques used in education which include the descriptive and inferential statistics and application of the statistical methods in educational research.

**ENGL 211: INTRODUCTION TO ENGLISH PHONETICS AND PHONOLOGY**

**3 Credits**

The aim of the course is to introduce students to the principles of phonetic description and taxonomy, illustrated by practical examples and language laboratory exercises. The course is also a description of phonological units-the tone group, the foot, the syllable and phonemes.

**ENGL 202: HISTORY OF THE ENGLISH LANGUAGE 3 Credits**

The course is an introduction to the study of Language; the nature and function of Language, and the historical changes in English phonology, morphology, grammar, and vocabulary from the beginning of the language to the modern period.

**ENGL 205: VARIETIES OF ENGLISH**

**3 Credits**

Language and Foreign Language varieties of English will be covered. Attention will also be paid to the distinction between standard and non-standard varieties of English. Concepts like dialect, register etc. will be treated.

**ENGL 233: MODERN AFRICAN LITERATURE: A SURVEY 3 Credits**

The course provides an overview of contemporary African Literature in English with emphasis on its historical development and its regional characteristics. A representative selection of texts covering prose fiction, poetry, and drama will be used for the course.

**ENGL 236: NIGERIAN LITERATURE IN ENGLISH 3 Credits**

This course will present a comprehensive survey of the literary offerings of Nigeria situating it within the socio-cultural context. It will cover the major literary genres: prose, poetry and drama and pay special attention to contemporary Nigerian writers.

**ENGL 242: CREATIVE WRITING 2 Credits**

The course exposes the student to the methods of acquiring skills in creative writing. Systematic guidance to the production of children's texts, playlets, poetry, songs and short stories is offered. It is an opportunity for the novice writer to develop imaginative expression in poetry, fiction and drama. The course introduces students to the means of publication and competition. The course may be supported by a workshop at which invited writers will discuss creative writing with the students.

**EDUC 311: RESEARCH METHODS IN EDUCATION 3 Credits**

This course is designed to teach students to understand research methods in education as well as equip them the skill of conducting research and writing research projects. Topics include: introduction to research, definition, Biblical importance of carrying out research, ethics of research, types of research, identifying problems, choosing of research topics, writing of background to the study, Statement of the problem and objective of the study, formulation of research questions and hypothesis, research methodology, construction of questionnaire, method of data analysis, compilation and format of writing references.

**EDUC 302: TEST, MEASUREMENT AND EVALUATION IN EDUCATION 3 Credits**

An experience in test construction, administration analysis and interpreter, test, testing, measurement, assessment and evaluation principles of testing evaluation, measurements context. The use of statistics and computer as tools in educational research should be emphasized.

**ENGL 302: ENGLISH SYNTAX AND LEXIS 3 Credits**

The main aim of the course is to study the structure of English with reference to a given grammatical model (like transformational generative and systemic).

**ENGL 303: STYLISTIC 3 Credits**

Problem of definition, history, typology (basilect, mesolect and acrolect), regional varieties, grammar, phonology, lexis and semantics of Nigerian English will be covered. The course will be exemplified with spoken, written, literary and non-literary Nigerian English texts.

**ENGL 343: TEACHING ENGLISH AS A SECOND LANGUAGE 2 Credits**

This is a pedagogical linguistic course whose aim is to acquaint the student with methods of teaching English in multilingual second language situations, the principles and procedures for teaching the four developmental language skills -listening, speaking reading and writing - will be covered. Different approaches to the teaching of Grammar will also be evaluated.

**ENGL 338: CONTEMPORARY AFRICAN DRAMA 3 Credits**

A study of the preoccupations, techniques, diversities and social functions of modern African drama is the focus of this course.

**ENGL 339: THEORIES OF SECOND LANGUAGE (L2) ACQUISITION AND USE 2 Credits**

Contrastive analysis, error analysis and inter language, second language, empiricism and imagism are to be covered in this course. The acquisition of different grammatical and phonological units of English will also be covered.

**ENGL 301: ENGLISH PHONOLOGY 3 Credits**

This course is a study of the sound system. The vowels and consonants of Standard English, their distributional patterns and textual functions in speech, poetry and music will be covered. A systematic study of the structures and functions of the syllable, the foot, and the tone group is the focus of this course. The descriptions will be related to practical analysis of different varieties of spoken English texts.

**ENGL 332: CONTEMPORARY AFRICAN POETRY 3 Credits**

This course will examine modern African poetry with focus on style, contents, and effectiveness of communication. The course investigates the diversity and social functions of modern African poetry.

**EDUC 303: EDUCATIONAL PLANNING AND ADMINISTRATION 2 credits**

A broad overview of the basic theories, principles, goals and techniques of management practices in education, institutional setting of educational administration and planning; planning approaches; national economic planning and educational planning.

**EDUC 305/423: CURRICULUM DEVELOPMENT AND INSTRUCTION 2-2 Credits**

A study of the theories and principles of curriculum planning, development, implementation and evaluation. An emphasis on the design and use of varieties of instructional strategies in different contexts. An overview of curriculum innovation in subject matter with particular references to the Nigeria experiences.

**EDUC 412: INTRODUCTION TO SPECIAL EDUCATION 2 Credits**

The classification and etiology of handicapping conditions are studied with a view to provision of an educational programme for various types of exceptionality. Therefore, this course introduces students to the field of special education as it examines the development of this field and enables an understanding of the developmental and learning characteristics of students with all types of exceptionalities. It also emphasizes healthy parent and school relations through effective communication: state and federal regulations impacting services for special needs

children; and litigation, regulation, advocacy issues impacting educational and related services for individuals with academic and/ or physical disabilities.

**EDUC 413: GUIDANCE AND COUNSELING 2 Credits**

This course introduce the nature, aims, objectives, theories and methods of guidance and counseling in the Nigerian educational system. An examination of students' needs and problems-biological and environmental, and the importance of guidance and counseling as probable measures for coping with them; such aspects of counseling and guidance-vocational placement, orientation and evaluation and evaluation, and tools for cumulative records, tests and inventories and their uses.

**EDUC 490: RESEARCH PROJECT 6 Credits**

Independent study of a management topic approved by the department under the supervision of a lecturer in the department.

**ENGL 407: GRAMMATICAL THEORIES I: TGG 3 Credits**

This course covers the general principles of Traditional Grammar and examines the philosophy and descriptive categories of Transformational Grammar will be covered. Emphasis will be placed on practical descriptive skills.

**ENGL 411: ENGLISH FOR SPECIFIC PURPOSES 3 Credits**

The course is to study the ways in which English may be adopted to particular circumstances and purposes, with emphasis on specialized varieties of English, the language of journalism, bureaucracy, science and technology, public speaking, ordinary conversation, etc. students are to write a short project involving fieldwork on any of the areas covered.

**ENGL 417: THE LANGUAGE OF PUBLISHING 3 Credits**

This course aims to prepare the students to function in the publishing industry. The linguistic features of editing, assessment of scripts, modification, correction, the preparation of page proof,

**ENGL 436: PRAGMATICS 3 Credits**

The course is designed to introduce the students to the theories and practices of translation; a crucial skill in bilingual and multilingual studies. The effect of the different approaches to translation on translated texts will also be attended to. Each student will be encouraged to work on his/her mother tongue.

**ENGL 438: GRAMMATICAL THEORIES II: SFG 3 Credits**

The philosophy and descriptive categories of systemic grammar will be covered in this course. The representation of natural language, situation and context, pedagogical linguistics, computer, discourse analysis, text linguistics and the applications of systemic grammar in literary studies will be covered. Emphasis will be given to practical descriptive skills.

**ENGL 444: THE LANGUAGE OF AFRICAN-AMERICAN LITERATURE 2 Credits**



The study of the peculiar linguistic and textual features of African-American poetry, drama, and prose in English is the focus of this course. Text incorporation and translation techniques will also be covered.

**ENGL 452: INTRODUCTION TO TEXT LINGUISTICS 3 Credits**

A review of text linguistic theories and the practical application of systemic text linguistics to the description of various English texts constitute the focus of this course. The course may be examined by a combination of tests, examination and practical analysis of texts.

**ENGL 453: INTRODUCTION TO SOCIOLINGUISTICS 3 Credits**

The course examines Language and Society from the perspective of English as a Second Language. Topics include language, society and culture, bilingualism and multilingual communities. The focus of the course is Africa, while its special emphasis is on Nigeria. The course previews the fact that no matter the origin, colour, language, every human belongs to God's larger society.

**ENGL 463: THE LANGUAGE OF JOURNALISM 2 Credits**

This is an in-depth study of the language of journalism. News writing and delivery, editorials, features, articles analysis, house style, etc. will be covered. The language of advertising will also receive special attention. Candidates will be encouraged to produce publishable materials. selection of types, layout and selection of title, etc will be covered in this course. The function of a literary agent will also be covered.

**ENGL 464: THE LANGUAGE OF AFRICAN LITERATURE IN ENGLISH 2 Credits**

The study of the peculiar linguistic and textual features of African-American poetry, drama, and prose in English is the focus of this course. Text incorporation and translation techniques will also be covered.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE  
3 Credits**

This course will focus on the concept of true education encompassing acquisition of systematic knowledge of the head, heart and hand to enable our graduates be completed in all ramification of world of work. Hence the course will expose the students to effective commination that will enhance good relationship; developing a helping relationship as disciples of Jesus Christ the Master Teacher. Furthermore, the course will inculcate biblical principles in their administrative, planning and teaching activities so as to become committed educators. The knowledge of this course will also create an awareness in students about God and the Bible as the source of knowledge and that all knowledge must lead the students to God. In addition, this course will undertake the study of the various schools of the Bible viz-a-viz school of Eden, school of the Patriarchs, school of the Desert, school of Canaan, school of the Prophets, school of John the Baptist, school where Jesus learned, school where Jesus taught, school of the Christian Church and school of the Hereafter or Heaven; and bring out the principles highlighted in these schools in other to enable graduates inculcate these principles in their daily living and interaction with members of the community.

## B.Sc. (Ed) GUIDANCE AND COUNSELING

### 100 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 105	Use of Library and Skill Studies	2	-
GEDS 112	Health Principle	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 101	Philosophy of Christian Education	2	
GEDS 134	Nigeria People in a Global Culture	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
	<b>CORE COURSE</b>		
EDUC 113	Teaching Profession	3	-
EDUC 104	Philosophical/sociological/psychological Foundations of Education		3
GCPY 103	Guidance and Counseling: Introduction	3	-
GCPY 116	Guidance and Counseling: Principles and Techniques of Counseling	-	3
GCPY 115	Biological Psychology	3	-
GCPY 113	Development of Guidance and Counseling	2	-
GCPY 110	Laboratory Work I	-	1
	4 Courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area (2courses of 3units for each semester)	6	6
	<b>TOTAL (47 Credits)</b>	<b>23</b>	<b>24</b>

**BS.c (Ed) GUIDANCE AND COUNSELING  
200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENRAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environment and Sustainable Development	2	-
GEDS 280	Leadership Skills	-	2
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching method I	-	3
*EDUC 210	Teaching Practice I	-	3*
EDUC 213	Introduction to Statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
GCPY 213	Counseling for Special Needs	2	-
GCPY 221	Testing in Counseling and Techniques in Continuous Assessment	3	-
GCPY 224	Counseling Theories and Psychotherapy	-	3
GCPY 220	Developmental Psychology	2	
GCPY 230	Laboratory work II: Academic Counseling	-	1
	4 Courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (53 Credits)</b>	<b>26</b>	<b>27</b>

**\*EDUC 210 - To be done during the summer**

**B. Sc (Ed) GUIDANCE AND COUNSELING  
300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	GENERAL EDUCATION COURSES		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	-	2
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	CORE COURSES		
EDUC 301	Teaching Methods II	3	-
EDUC 302	Tests ,Measurements and Evaluation in Education	-	3
EDUC 311	Research Methods in Education	3	-
EDUC 305	Curriculum Development and Instruction I	2	-
GCPY 302	Practicum in Guidance and Counseling	-	3*
GCPY 303	Psychology of Adolescents	3	-
GCPY 310	Laboratory Work III: Psychosocial	-	1
GCPY 321	Organization and Administration of Guidance and Counseling in Schools	3	-
GCPY 314	Occupational Information on Job Analysis and Job Evaluation	-	3
GCPY 332	Psychology of Abnormal Behavior	-	3
	*ELECTIVE COURSES		
GCPY 351	Pastoral Counseling	2	
GCPY 322	Family Counseling and Child Guidance	-	2
GCPY 324	Management and Counseling of The Aged	-	2
GCPY 341	Rehabilitative Counseling	2	
	Select 4 Courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area.	6	6
	TOTAL (54 Credits)	27	27

\*GCPY 302 will be done during summer

\* Students are to choose one elective course in first semester.

**B.Sc. (Ed) GUIDANCE AND COUNSELING  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 440	E-Project Management and Simulation	2	
	<b>CORE COURSES</b>		
EDUC 412	Introduction to Special Education	-	2
EDUC 423	Curriculum Development and Instruction II	2	-
GCPY 433	Introduction to Culture and Psychopathology	2	-
GCPY 401	Counseling in Special Setting	2	-
GCPY 419	Personality Development and Social Adjustment in Counseling	2	-
GCPY 411	Behavioral Modification	3	-
GCPY 422	Psychology of Deviant Behaviour Development	-	3
GCPY 402	Group Dynamics	-	2
GCPY 410	Laboratory Work IV: Clinical Assessment of Psychopathology	1	-
GCPY 432	Conflict and Conflict Resolution in Work Place	-	2
EDUC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
GCPY 403	Social and Psychological Factors in Learning	2	
GCPY 412	Assessment and Evaluation of School Counseling		2
GCPY 413	Behaviour in Organization	2	
GCPY 414	Inter-Cultural Education		2
	4 Courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (54 Credits)</b>	<b>27</b>	<b>27</b>

\* Students are to choose one elective course in first semester.

**DIRECT ENTRY**  
**ENTRY LEVEL: 200L**  
**BSc (Ed) GUIDANCE AND COUNSELING**  
**200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENRAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 260	Environment and Sustainable Development	-	2
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	
EDUC 104	Philosophical/sociological/psychological Foundations of Education	-	3
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching method I	-	3
EDUC 210	Teaching Practice I	-	3
EDUC 213	Introduction to statistics in Education	3	-
EDUC 246	Educational/Instructional Technology	-	3
GCPY 213	Counseling for Special Needs	2	-
GCPY 221	Testing in Counseling and Techniques in Continuous Assessment	3	-
GCPY 224	Counseling Theories and Psychotherapy	-	3
GCPY 220	Developmental Psychology	2	
GCPY 230	Laboratory work II: Academic Counseling	-	1
	4 Courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (48 Credits)</b>	<b>24</b>	<b>24</b>

**DIRECT ENTRY**  
**B. Sc (Ed) GUIDANCE AND COUNSELING**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
EDUC 301	Teaching Methods II	3	-
EDUC 302	Tests ,Measurements and Evaluation in Education	-	3
EDUC 311	Research Methods in Education	3	-
GCPY 302	Practicum in Guidance and Counseling	-	3
GCPY 310	Laboratory Work III: Psychosocial	-	1
GCPY 321	Organization and Administration of Guidance and Counseling in Schools	3	-
GCPY 314	Occupational Information on Job analysis and Job Evaluation	-	3
GCPY 332	Psychology of Abnormal Behavior	-	3
	<b>*ELECTIVES COURSES</b>		
GCPY 351	Pastoral Counseling	2	-
GCPY 322	Family Counseling and Child Guidance	-	2
GCPY 324	Management and Counseling of The Aged	-	2
GCPY 341	Rehabilitative Counseling	2	
	4 Courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area.	6	6
	<b>TOTAL (47 Credits)</b>	<b>22</b>	<b>25</b>

**\* Students are to choose one elective course in first semester.**

**DIRECT ENTRY**  
**B.Sc. (Ed) GUIDANCE AND COUNSELING**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 400	Introduction to Entrepreneurial Skills	-	2
	<b>CORE COURSES</b>		
EDUC 305	Curriculum Development and Instruction I	2	-
EDUC 412	Introduction to Special Education	-	2
GCPY 433	Introduction to culture and psychopathology	2	-
GCPY 401	Counseling in Special Setting	2	-
GCPY 419	Personality Development and Social Adjustment in Counselling	2	-
GCPY 411	Behavioral Modification	3	-
GCPY 422	Psychology of Deviant Behaviour Development	-	3
GCPY 402	Group Dynamics	-	2
GCPY 410	Laboratory Work IV: Clinical Assessment of Psychopathology	1	-
GCPY 432	Conflict and Conflict Resolution in Work Place	-	2
EDUC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
GCPY 403	Social and Psychological Factors in Learning	2	
GCPY 412	Assessment and Evaluation of School Counseling		2
GCPY 413	Behaviour in Organization	2	
GCPY 414	Inter-Cultural Education		2
	4 Courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (48 Credits)</b>	<b>23</b>	<b>25</b>

**\* Students are to choose one elective course in first semester.**



**DIRECT ENTRY**  
**ENTRY LEVEL: 300L**  
**B. Sc (Ed) GUIDANCE AND COUNSELLING**  
**300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
EDUC 113	Teaching Profession	3	-
EDUC 203	Educational Psychology	3	-
EDUC 204	Teaching Method I	-	3
EDUC 301	Teaching Methods II	3	-
EDUC 302	Tests ,Measurements and Evaluation in Education	-	3
EDUC 311	Research Methods in Education	3	-
GCPY 302	Practicum in Guidance and Counseling	-	3
GCPY 310	Laboratory Work III: Psychosocial	-	1
GCPY 321	Organization and Administration of Guidance and Counseling in Schools	3	-
GCPY 314	Occupational Information on Job analysis and Job Evaluation	-	3
GCPY 332	Psychology of Abnormal Behavior	-	3
	<b>*ELECTIVES COURSES</b>		
GCPY 351	Pastoral Counseling	2	-
GCPY 322	Family Counseling and Child Guidance	-	2
GCPY 324	Management and Counseling of The Aged	-	2
GCPY 341	Rehabilitative Counseling	2	
	4 Courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area.	6	6
	<b>TOTAL (50 Credits)</b>	<b>26</b>	<b>24</b>

\* Students are to choose one elective course in first semester.

**DIRECT ENTRY**  
**B.Sc. (Ed) GUIDANCE AND COUNSELLING**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 400	Introduction to Entrepreneurial Skills	-	2
	<b>CORE COURSES</b>		
EDUC 305	Curriculum Development and Instruction I	2	-
EDUC 412	Introduction to Special Education	-	2
GCPY 433	Introduction to Culture and Psychopathology	2	-
GCPY 401	Counseling in Special Setting	2	-
GCPY 419	Personality Development and Social Adjustment in Counselling	2	-
GCPY 411	Behavioral Modification	3	-
GCPY 422	Psychology of Deviant Behaviour Development	-	3
GCPY 402	Group Dynamics	-	2
GCPY 410	Laboratory Work IV: Clinical Assessment of Psychopathology	1	-
GCPY 432	Conflict and Conflict Resolution in Work Place	-	2
	<b>*ELECTIVE COURSES</b>		
GCPY 403	Social and Psychological Factors in Learning	2	
GCPY 412	Assessment and Evaluation of School Counseling		2
GCPY 413	Behaviour in Organization	2	
GCPY 414	Inter-Cultural Education		2
EDUC 490	Research Project	-	6
	4 Courses in relevant teaching major area of Sciences/Arts/Social Sciences Unrestricted Any one course in any area	6	6
	<b>TOTAL (48 Credits)</b>	<b>23</b>	<b>25</b>

**\* Students are to choose one elective course in first semester.**

## **B.Sc. (Ed) GUIDANCE AND COUNSELING COURSES DESCRIPTIONS**

### **EDUC 113: TEACHING PROFESSION 3 Credits**

The course provides awareness of basic information about teachers' role in the communities and nation building, professionalism of teaching ethics, unionism and other professional associations in education.

### **EDUC 104: PHILOSOPHICAL/ SOCIOLOGICAL AND PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credits**

A study of the educational development and institutions, from ancient times to the present with particular reference to the evolution of modern education in Nigeria. An introduction to major psychological, sociological and philosophical foundations of education.

### **GCPY 103: GUIDANCE AND COUNSELING: INTRODUCTION 3 Credits**

Introductory courses in the nature, aims, objectives, theories and methods of guidance and counseling in the Nigerian educational system. An examination of students' needs and problems – biological and environmental, and the importance of guidance and counseling as probable measure for coping with them; such aspects of counseling and guidance – vocational, placement, orientation and evaluation, and tools for cumulative records, test and inventories and their uses.

### **GCPY 116: GUIDANCE AND COUNSELING: PRINCIPLES AND TECHNIQUES OF COUNSELLING 3 Credits**

An overview of the meaning, history and basic principles and techniques of guidance and counseling. The stages counseling, interviews, interactions with the learners, his parents, school and administrators. Its importance and problems in Nigeria and other countries. Stages of a typical counseling situation e.g. referral, diagnosis (Building of rapport, identification needs); therapy; termination; follow-up.

### **GCPY 110/230/310/410: LABORATORY WORK I, II, III, IV 1-1-1-1 Credit**

An application of principles and techniques of guidance and counseling in a clinical setting. Skill in observation, interviewing and cumulative record-keeping. Visits and interviews with personnel in various counseling (Academic, psychosocial and clinical) settings.

### **GCPY 115: BIOLOGICAL PSYCHOLOGY 3 Credits**

A study of the biological basis of human behavior. The role of the central nervous system and the hormones in human behavior is highlighted and the creator and the director of human existence is pointed out. The effect of other biological system of behavior will be explored.

### **EDUC 203: EDUCATIONAL PSYCHOLOGY 3 Credits**

The knowledge of the basic principles of psychology and how these could be applied in explaining human behavior generally and in particular, human variability and individual differences as observed in the classroom. The social and environmental factors that hinder full development of the child in the classroom will be discussed.

### **EDUC 210, 300: TEACHING PRACTICES I, II 3, 3 Credits**

An elective approach to the design process application and effects of technology in teaching-learning situations. Emphasis is on the improvisation with local resources.

**EDUC 204, 301: TEACHING METHODS I, II**

**3, 3 Credits**

Any one of the following method courses

**Language Methods (3 Credits)**

Evaluation of teaching, application of principles of language teaching to specific examples. Audio visual aids in language teaching, implications of language policy for language teaching in schools, original essay on any chosen specific problems of language teaching in schools. Requirements in WASC English language, French language and Yoruba languages examinations.

**Social science methods (3 Credits)**

Discussion on methods of teaching. Study trips. Techniques of presenting information in social sciences. Preparation and use of teaching aids in social sciences. Organization of specimen teaching sessions on specific topics.

**EDUC 246: EDUCATIONAL/INSTRUCTIONAL TECHNOLOGY**

**3 Credits**

Explanation and Definition of the Concept of educational/instructional technology, historical development of educational/instructional technology, the history of educational/instructional technology in Nigeria and global historical perspective. Emphasis will be on theories, principles of leaning and educational/instructional technology. Audio- visual technology, hardware and software in teaching aids, practical application and software tools for teaching learning, system approach, advances in educational/instructional technology, design and Production of Instructional media, Micro Teaching with interactive Whiteboard (Smart board) will also be taken.

**GCPY 221: TESTING IN COUNSELING AND TECHNIQUES IN CONTINUOUS ASSESSMENT**

**3 Credits**

The concept of testing is explained. Testing as a means of gathering solid information about individuals' strengths and limitation and guide to assisting him in the resolution of his problems are discussed. Testing techniques and method of communicating test result to clients are explored.

**GCPY 224: COUNSELING THEORIES AND PSYCHOTHERAPY**

**3 Credits**

This course is designed to provide student with knowledge and experiences in counselling theories and psychotherapies. This covers the three basic classification of counselling theories: Psychoanalytic, Humanistic, and Cognitive- Behaviour Theories. The course will present the various theorists view on human nature, the techniques and implications on human behavior.

**EDUC 311: RESEARCH METHODS IN EDUCATION**

**3 Credits**

This course is designed to teach students to understand research methods in education as well as equip them the skill of conducting research and writing research projects. Topics include: introduction to research, definition, Biblical importance of carrying out research, ethics of research, types of research, identifying problems, choosing of research topics, writing of background to the study, Statement of the problem and objective of the study, formulation of research questions and hypothesis, research methodology, construction of questionnaire, method of data analysis, compilation and format of writing references.

**EDUC 302: TEST, MEASUREMENT AND EVALUATION IN EDUCATION**

**3 Credits**

An experience in test construction, administration analysis and interpreter, test, testing, measurement, assessment and evaluation principles of testing evaluation, measurements context. The use of statistics and computer as tools in educational research should be emphasized.

**GCPY 302: PRACTICUM IN GUIDANCE AND COUNSELING 1                      3 Credits**

An application of principles and techniques of guidance and counseling in a clinical setting. Skill in observation, interviewing and cumulative record-keeping. Visits and interviews with personnel in various counseling setting such as elementary, secondary and tertiary schools, juvenile courts, remand homes, and welfare offices to be carried out.

**GCPY 303: PSYCHOLOGY OF ADOLESCENTS    2 Credits**

An examination of the maturational, physical emotional and intellectual problems associated with the development in adolescence, their psychological needs for adjustment and facilitative role of guidance and counselling in teaching and learning situation.

**GCPY 321: ORGANIZATIONS OF GUIDANCE AND COUNSELING IN SCHOOLS    3 Credits**

An examination of guidance and Counseling programs and models their selection criteria, control and supervisor; use of paraprofessional and other support personnel; appraisal of National Policy on Educational Provision for guidance and counseling.

**GCPY 332: PSYCHOLOGY OF ABNORMAL BEHAVIOUR                      3 Credits**

An introduction to the concept of abnormality, its causes, patterns and methods of therapy. Common abnormal behaviors observed among children are discussed. The educational implication of the course are highlighted

**GCPY 314: OCCUPATIONAL INFORMATION ON JOB ANALYSIS AND JOB EVALUATION                      3 Credits**

An introduction to the study of the nature of jobs, their demands on **workers** and methods of determining their relative importance. Various sources of occupational information at both the primary, post primary and occupational information in the vocational development of the child will be examined.

**GCPY 419: PERSONALITY DEVELOPMENT AND SOCIAL ADJUSTMENT 2 Credits**

The concepts of personality and adjustment are explained. Different personality theories are highlighted stressing how these relate to school adjustment within and out-of-school settings. The implications of personality types on educational/occupational performance and general adjustment to life are also focused upon.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE    3 Credits**

This course will focus on the concept of true education encompassing acquisition of systematic knowledge of the head, heart and hand to enable our graduates be completed in all ramification of world of work. Hence the course will expose the students to effective communication that will enhance good relationship; developing a helping relationship as disciples of Jesus Christ the Master Teacher. Furthermore, the course will inculcate biblical principles in their administrative, planning and teaching activities so as to become committed educators. The knowledge of this course will also create an awareness in students about God

and the Bible as the source of knowledge and that all knowledge must lead the students to God. In addition, this course will undertake the study of the various schools of the Bible viz-a-viz school of Eden, school of the Patriarchs, school of the Desert, school of Canaan, school of the Prophets, school of John the Baptist, school where Jesus learned, school where Jesus taught, school of the Christian Church and school of the Hereafter or Heaven; and bring out the principles highlighted in these schools in other to enable graduates inculcate these principles in their daily living and interaction with members of the community.

**GCPY 220: DEVELOPMENTAL PSYCHOLOGY** **2 Credits**

In-depth general principles of development from prenatal periods through birth to adulthood. This include cognitive development, psychosocial development, and personality development. The role of heredity, environment and situational factors in development will also be critically examined

**EDUC 305/423: CURRICULUM AND DEVELOPMENT I, II** **2-2 Credits**

A study of the theories and principles of curriculum planning, development, implementation and evaluation. An emphasis on the design and use of varieties of instructional strategies in different contexts. An overview of curriculum innovation in subject matter with particular references to the Nigeria experiences.

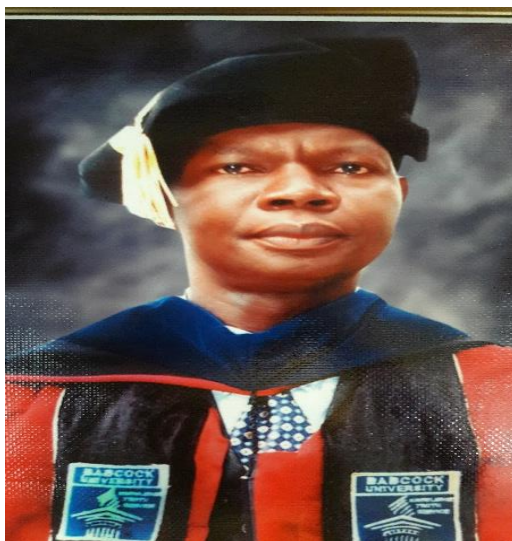
**EDUC 412: INTRODUCTION TO SPECIAL EDUCATION** **2 Credits**

The classification and etiology of handicapping conditions are studied with a view to provision of an educational programme for various types of exceptionality. Therefore, this course introduces students to the field of special education as it examines the development of this field and enables an understanding of the developmental and learning characteristics of students with all types of exceptionalities. It also emphasizes healthy parent and school relations through effective communication: state and federal regulations impacting services for special needs children; and litigation, regulation, advocacy issues impacting educational and related services for individuals with academic and/ or physical disabilities. Counseling setting such as elementary, secondary and tertiary schools, juvenile courts, remand homes, and welfare offices to be carried out.

**EDUC 490: RESEARCH PROJECT** **6 Credits**

Independent study of a management topic approved by the department under the supervision of a lecturer in the department.

## DEPARTMENT OF HISTORY AND INTERNATIONAL STUDIES



***Michael A. POPOOLA, PhD***  
**HEAD OF DEPARTMENT**

### ***ACADEMIC STAFF***

Michael A. POPOOLA, Ph.D.	Senior Lecturer, Head of Department
Abiodun A. ADESEGUN, PhD	Associate Professor, Church/Cultural History
Michael A. OMOLEWA, Ph.D	Emeritus Professor of History / Adult Education
Alexander UGWUKAH, Ph.D	Senior Lecturer, History and International Relations
Emmanuel O. EREGARE, Ph.D.	Lecturer I, Church/Cultural History
Oluwatosin AYANLOWO, Ph.D.	Lecturer II, History and International Relations
Charles C. AKPUH, Ph.D.	Lecturer II, History and International Relations
Chituru NWACHUKWU, M.A	Assistant Lecturer, Cultural History/ Gender Studies
Odunayo ADELEKE, M.A.	Assistant Lecturer Cultural History/Gender Studies
Gaius ANONABA, M.A.	Assist. Lecturer, History & International Studies
Adetola ADEJO, M.A.	Assist. Lecturer, History/International Relations
Deborah E. OLUWADARA, M.A	Assist. Lecturer, Diplomatic History

### ***ADJUNCT STAFF***

John G, NENGEL, Ph.D	Professor of History
Wale OYEMAKINDE, Ph.D	Professor of Economic History
Joshua BOLARINWA, Ph.D	Senior Lecturer, History

### **DEPARTMENTAL MISSION STATEMENT (PHILOSOPHY)**

The Department of History and International Studies teaches the study of history and world affairs, in the context of the University's philosophy of integration of faith and learning, to inculcate in the future leaders a sense of judgment and discernment in the management of human affairs.

### **DEPARTMENTAL OBJECTIVES**

The teaching of History and International Studies at Babcock University would aim at:

- i. Giving students a thorough understanding of Nigerian history and historiography in the context of African history and historiography.
- ii. Educating students on historical movements of global importance and international forces in the development of Africa to enable them to acquire better knowledge of the world.
- iii. Developing a sense of commitment and capacity in students to consciously relate to these movements and forces in such a way that Nigerian and African unity, independence and prosperity can be achieved.
- iv. Providing the students with the advantages usually associated with historical training, viz: critical and analytical faculty and balanced judgement needed particularly in administrative and managerial responsibilities both in governmental and non-governmental agencies at home and abroad.
- v. Stimulating in students an appreciation of International Relations theories and other tools of analysis and to develop in them the ability to apply their international relations theory, analytical tools, knowledge and skills to the solution of international problems, and create in them a desire for further studies in History and International Relations.

**Note:** To achieve these objectives, the Department draws on the expertise of relevant disciplines in the Humanities, Social Sciences and Natural Sciences to explain the historical forces and developments with which they deal.

### **ADMISSION REQUIREMENTS**

- A. The candidate must possess 5(five) credits in SSCE Examination (or its equivalent) including English and History/Government

### **CLASS WORK**

#### **Class Attendance**

Every student is required to attend classes regularly and punctually, unless ill or prevented by some recognized emergency. Students who absent themselves from class for more than three weeks during the semester shall merit an F grade. Authorized leave of absence from campus does not excuse the student from classes, or relieve the student of the required course work.

#### **Class Load**

Except where the Senate-approved requirements of particular course of study so allows, a full-time student is one who is registered for a minimum of 16 credits per semester. Only final year students of superior scholarship (a minimum of 3.50) will normally be allowed to



take more than a full load of 21 credits and up to a maximum of 24 credits. One semester credit represents a 50-minutes class period per week, for a minimum of 15 weeks of classes comprising one semester. Students on academic probation may be allowed to take between 12 and 16 credits in order to allow them improve on their academic performance. Extra year students may be allowed to take a minimum of eight credits during their final semester or maximum of 12 during their final summer, to prevent the students from abusing the privilege of doing less than the minimum, and to prevent extra fees the following school year.

Extra year students are students who in their final year have few courses to complete their programme requirements.

Students on work study are limited to 20 hours of work per week during the regular semester or 40 hours when not registered

A graduating student is one who does not have more than 48 units to complete his/her program in a given school year.

### **CONTINUOUS ASSESSMENT-BASED GRADING PERCENTILE GUIDELINES**

#### ***Continuous Assessment:***

Class Attendance:	5% }		
Quizzes & Tests:	10% }		
Assignments:	10% }	=	40%
Mid-Semester Exam:	15% }		
Final Semester Exam:	60%		

### **EXAMINATION PAPERS AND ASSIGNMENTS MODERATION PROCESSES**

Setting and Marking of Examinations and Assignments;

- The Head of Department shall ensure that examination questions are reviewed and attested to before administering to students.
- External moderator currently teaching in a recognized and approved university shall be appointed for each discipline area within the courses of study. Subject moderators will be chosen for their competence in each of the examinable areas of the curriculum, and shall serve for a period of two years. External subject moderators are an integral part of the quality control process. Their role is to ascertain, in accordance with existing Babcock University regulations and tradition, that students receive fair evaluation and to assist in ensuring that rigorous academic standards are maintained for the degrees awarded. In each subject they will review a representative sample of examination scripts and assignments in the light of the subject descriptions and the examination paper.
- Student formal contribution to quality assurance procedures is through the systematic use of the Student Rating of Teaching Effectiveness Instrument, which is used in a minimum of one subject per teacher per semester. The evaluation exercise shall be conducted regularly by the Head of Department between the 10th -12th week who submits the completed instrument to the Associate Vice President, or Institutional Effectiveness immediately upon completion. The Office of Institutional Effectiveness will analyse and submit the findings to the teachers, HODs and Deans. The result of the findings may be discussed with the teachers by the Associate Vice President, for Institutional Effectiveness.

### **DEPARTMENTAL COMMITTEE OF EXAMINERS (DCE)/ SCHOOL BOARD OF EXAMINERS (SBE)**

Within two weeks of the conclusion of the semester examinations, results will be released to students. During this period, the Departmental Committee of Examiners (DCE) shall meet to review the distribution of grades, moderating borderline results and determining that all results are in accordance with approved course requirements and regulations. All assessments

will be reviewed to ensure that they are fair, uniform, and of an acceptable standard for the award.

#### **DURATION OF PROGRAM**

- A. The normal period for an honours degree shall be eight (8) Semesters

#### **GENERAL GRADUATION REQUIREMENTS**

##### **MINIMUM REQUIREMENTS FOR GRADUATION**

A minimum requirement of 175 Credits is required for graduation. The breakdown of the minimum credit load is as follows:

<b>Level</b>	<b>Departmental Courses</b>	<b>GEDS Courses</b>	<b>Total Credits</b>
100	24	17	41
200	33	15	48
300	36	7	43
400	36	7	43
Sub-Total	129	46	175

## B.A. (HONS), HISTORY AND INTERNATIONAL STUDIES

### 100 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>st</sup>	2 <sup>nd</sup>
	<b>GENERAL EDUCATION COURSE</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131,	Communication Skill in English I, II	2	
GEDS 132	Communication Skill in English II		2
	<b>CORE COURSES</b>		
HIST 101	Nigeria from 1500 – 1800	3	-
HIST 105	Principles of International Relations	3	-
HIST 110	Pre- Colonial African Diplomacy	-	3
HIST 114	Major World Civilizations	-	3
FREN 131	Elementary French I	3	-
FREN 132	Elementary French II	-	3
	<b>*ELECTIVE COURSES</b>		
HIST 106	New States in World Politics	-	3
HIST 107	North Africa from the First Conquest of Egypt to 1500 AD	3	-
HIST 109	Islamic Revolution in West Africa	3	-
HIST 112	UN, and Its Specialized Agencies and Development	-	3
HIST 113	Archaeology of the Nok, Benin, Oyo and Igbo-Ukwu Areas	3	-
HIST 115	Europe to the Age of Revolution	3	-
HIST 118	Nigerian Constitutional Development 1914 – 1999	-	3
HIST 126	History of the USA up to 1877	-	3
	<b>TOTAL (41 CREDITS)</b>	<b>20</b>	<b>21</b>

**\* Note: In addition to the GEDS and Core Courses, every student is required to offer ONE**

**Elective Course in each Semester.**

## B.A (Hons), HISTORY AND INTERNATIONAL STUDIES

### 200 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSE</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 280	Leadership Skills	-	2
	<b>CORE COURSES</b>		
HIST 201	Principles of International Economic Relations	3	-
HIST 202	Principles of International Organizations	-	3
HIST 203	Foreign Policy Analysis	3	-
HIST 204	Colonial Conquest and Independent Movements in West Africa 1885 – 1960	-	3
HIST 210	Nigeria History from 1800 – 1900	-	3
HIST 216	Europe from French Revolution to World War II	-	3
HIST 221	History of USA since 1877	3	-
FREN 215	Intermediate French I	3	-
FREN 216	Intermediate French II	-	3
	<b>* ELECTIVE COURSES</b>		
HIST 205	Economic History of West Africa in the 19 <sup>th</sup> -Century	3	-
HIST 206	History of Southern Africa 1400 – 1800	-	3
HIST 207	O. A. U. (AU) Study of African International Relations	3	-
HIST 211	Africa and European Imperialism	3	-
* HIST 212	The Ottoman Empire and North Africa since 1590	-	3
* HIST 214	Development of Global Political Economy	-	3
	<b>TOTAL (48 Credits)</b>	<b>24</b>	<b>24</b>

**\*NOTE: In addition to the GEDS and Core Courses, every student is required to offer ONE Elective in each semester**

**B.A. (Hons), HISTORY AND INTERNATIONAL STUDIES**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customers Relationship Management	-	2
GEDS 312	Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
HIST 310	Problems and Prospects of Regional Economic Co-Operation in West Africa	-	3
HIST 312	International Relations Theories	-	3
HIST 315	Theory and Practice of Diplomacy	3	-
HIST 316	Historical Research Method	-	3
HIST 317	The Principles of International Law	3	-
HIST 319	Nigeria from 1900 to 1970	3	-
HIST 332	Nigerian Foreign Policy	-	3
HIST 321	Philosophy of History	3	-
FREN 331	Advanced French I	3	-
FREN 336	Advanced French II	-	3
	<b>*ELECTIVE COURSES</b>		
HIST 305	USSR from 1905 to 1950	3	-
HIST 306	Southern Africa in the 19 <sup>th</sup> and 20 <sup>th</sup> Centuries	-	3
HIST 307	Comparative Industrial Growth - (USA, USSR, Japan, China, Britain)	3	-
HIST 308	History of the Common Wealth	-	3
HIST 309	Africa and the Outside World in the 20 <sup>th</sup> Century	3	-
HIST 311	Foreign Policy of World Powers	3	-
HIST 313	Issues in International Politics	3	-
HIST 318	Introduction to Contemporary Strategic Studies		3
	<b>TOTAL (43 Credits)</b>	<b>21</b>	<b>22</b>

\* Note: In addition to the GEDS and Core Courses, every student is required to offer

**ONE Elective in each Semester.**

**B. A. (Hons), HISTORY AND INTERNATIONAL STUDIES**  
**400 LEVEL COURSES**

400 LEVEL COURSES			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	CORE COURSES		
HIST 405	Nigeria from 1970 to the Present	3	-
HIST 406	Problems and Issues in African Historiography	-	3
HIST 407	Economic History of Nigeria in the 20 <sup>th</sup> Century	3	-
HIST 408	South-South and Regional co-operation in the World	-	3
HIST 412	Contemporary History of the Middle East	-	3
HIST 413	Special Project in History	3	-
HIST 421	Comparative Parliamentary Studies (Nigeria, Britain France and India)	3	-
HIST 427	Advanced Bargaining and Conflict Resolution	3	
HIST 490	Research Project	-	6
	*ELECTIVE COURSES		
HIST 402	Japan from Meiji Restoration to the end of World War II	-	3
HIST 403	Studies in Inter-Group Relations in Nigeria	3	-
HIST 404	Politics of International Finance Institutions	-	3
HIST 409	Comparative Foreign Policy	3	-
HIST 417	Modern African Political Thought	3	-
HIST 418	Foreign Policies and Diplomatic Practices of African States		3
HIST 425	History of Science and Technology from 1500 to Present	3	-
	TOTAL (43 Credits)	20	23

**\*NOTE: In addition to the GEDS and Core Courses, every student is required to offer ONE Elective in each Semester.**

## **B. A. (Hons), HISTORY AND INTERNATIONAL STUDIES**

### **COURSE DESCRIPTIONS**

#### **HIST 101: NIGERIA FROM 1500 TO 1800**

**3 Credits**

The Course examines the historical developments of Nigeria from about 1500 to 1800 AD. It highlights the formation of states and intergroup relations in the area of political, religious, economic and socio-cultural activities. It specially highlights the sources of Nigerian history, states formation, the centralized states of northern Nigeria, the forest region, and the non-centralized states. Furthermore, the course takes a cursory look at the various inter-group relations of the different states, the roles of Islam and Islamic Jihads, as well as the European influence in the relationships which sometimes involved civil and inter-group wars. On the whole, an attempt will be made to examine the influence of Islam and early Christianity Missionaries on pre-colonial developments in Nigeria at this period. The Biblical description of the formation of human society and human relationship will also be discussed in the course.

#### **HIST 105: PRINCIPLES OF INTERNATIONAL RELATIONS**

**3 Credits**

The course provides the students with background knowledge of the origin and principles guiding relationships and interactions between and among states in the Global Arena. It provides explanation for the reasons why states behave the way they do in the International System. The Course begins with a critical survey of the different theoretical perspectives and conceptual frameworks of International Relations, their historical backgrounds and the points of debate between them, with the purpose of establishing possible synthesis from the discussions. In the process, this course explains the theoretical approaches to a number of specific issues using such theories as the Long Cycle and World System Security theories, as well as Conflict and Negotiation theories. However, conflict between states will also be examined in the light of the Biblical prophecies.

#### **HIST 106: NEW STATES IN WORLD POLITICS**

**3**

##### **Credits**

The Course discusses the collapse of imperial rule in Asia and African countries, forms of government in the new states, their main preoccupations, and their roles in the International Order, as well as their impact on the United Nations and the International Law. This course provides clues to the understanding of the fundamentals of state system in International Politics, and the importance of the South-South or Global South to the International Political System. Moreover, students taking this course will be made to understand that the asymmetric order in the international system may only be remedied when Jesus comes to take possession of the world.

#### **HIST 107: NORTH AFRICA FROM THE FIRST CONQUEST OF EGYPT TO 1500AD**

**3 Credits**

The Course discusses the rise of the Egyptian civilization, its occupation by foreign powers including Libya, the Greeks and the Romans. The spread of Islam, the North African States, and their relations with West Africa are part of the content of this course. The course will also look at Egypt and other ancient kingdoms in North Africa which featured prominently in the Bible. Efforts would be made to reconcile the interactions between Egyptians primitive customs and early Christian missionary in-roads to the Egyptians civilization through the Greeks and Romans.

**HIST 109: ISLAMIC REVOLUTION IN WEST AFRICA****3 Credits**

This course takes the form of a general discussion of the State of Islam, its stages of development in West African as a religion of aliens, the traders, the rulers and the militant scholars and masses, the jihads of the Futas, Hausa land, Masinne and the Tukulors. An analysis of jihad as a potent means of winning converts for God will be examined within the Biblical framework

**HIST 110: PRE-COLONIAL AFRICAN DIPLOMACY****3 Credits**

The course is intended to introduce students to the existence and procedures of diplomatic activities in pre-colonial African kingdoms, empires and city states, prior to the encounters with the colonial powers. It is also aimed at bringing out the many dimensions of the diplomatic activities and, therefore, the relevance of the African experience of diplomacy in modern International Relations in general and to intra-African relations in particular. The course will look at Diplomatic interactions between states as an act ordained by God rather than being the invention of the Europeans.

**HIST 112: UNITED NATIONS AND ITS SPECIALIZED AGENCIES AND DEVELOPMENT****3 Credits**

The main focus of the course is to acquaint the students with the evolution of United Nations with reference to the League of Nations and its demise. Also the course covers the developments of the United Nations and its Specialized Agencies with emphasis on the need for and functions of the UN Specialized Agencies. Such topical areas as the International Economic Consultation (ECOSOC), UN General Assembly, IMF/World Bank, and the G-7 are parts of the areas of interest to this study. Furthermore, other issues like the United Nations and the global Environment (emphasizing the roles of UNEP and other existing UN Specialized Agencies in ecological security), trade and development (in line with the roles of GATT and UNCTAD in protectionism), Technical Co-operation and UN Specialized Agencies (emphasizing the role of UNDP in technical assistance to member countries) and the Specialized Agencies and the NEO are included in the discussion. All these will be discussed in the context of the Biblical prophecy of Alliance formation

**HIST 113: ARCHAEOLOGY OF THE NOK, BENIN, OYO AND IGBO-UKWU AREAS****3 Credits**

This course reviews the concept of Archaeology, its development, and methods. It provides an exploration of the general principles and techniques of the discipline, the relevance of inter-disciplinary approach to the study of history, reconnaissance, excavation, artefact study and museums. It specifically understudies the archaeological findings in the Nok, Benin, Oyo and Igbo-Ukwu areas alongside their significance. The course will also make students to understand God as the author of discovery and the correct interpretation of discovery. This course will further appraise the innate knowledge given to man by God to increase wisdom and understanding of his creation within the context of scientific excavations.

**HIST 114: MAJOR WORLD CIVILIZATIONS****3 Credits**

This course is a general survey of some of the major world civilizations and their major contributions to historical developments around the world. The civilisations considered in this study include the Egyptian, the Arabic, the Greek, the Roman, the Chinese, and the European civilisations. The discussion goes back to cover the earliest notable civilisations of these places up to the contemporary times. God will be examined as the author of knowledge and thus the power behind any human civilization.



**HIST 115: EUROPE TO THE AGE OF REVOLUTIONS****3****Credits**

Europe to the Age of Revolutions is a general survey of fundamental developments in European history with emphasis on the events of the Middle Ages up to the eighteenth-century. The highlights of this course are on such issues as the Early Economic and Social Institutions like Feudalism, the Renaissance, Reformation in the Christian Church, the age of discoveries, Mercantilism, the new scientific view of the world, the Age of Enlightenment, as well as the American and French Revolutions. The ethics and morality of revolution will be considered as well. Effort will be made to review these revolutions and their impact on the growth of the Christian world.

**HIST 118: NIGERIA CONSTITUTIONAL DEVELOPMENT****3****Credits**

This course is aimed at exposing students to an in-depth study of a critical area of Nigeria's political history. It is a study of the political and constitutional developments in Nigeria from the historical event of amalgamation of 1914 through the various constitutional developments. The course will explore factors that influenced the course of constitutional development in Nigeria before and after the country's independence; the types of constitutional models adopted and practiced by the Federal Republic of Nigeria since independence in 1960; the successes, failures and challenges encountered in the various constitutional experiments; and how well Nigerian political administrators have been able to commensurately respond to the challenges of sovereignty in the area of constitution making. The course will also draw correlation between constitutional development which leads a country to political maturity and the Biblical teaching of spiritual development which equally leads Christian to spiritual perfection. Efforts will also be made in this course to evaluate Nigerian constitutions to determine its correlation with the moral laws in the old and new testament of the Bible.

**HIST 126: HISTORY OF THE USA UP TO 1877****3****Credits**

The course discusses the struggles for American independence, the development of civil rights in America and the American civil war. It also examines the developments of the formation of American states. In addition, the course will discuss God as the only one who can bring a nation or a people from obscurity to a position of prominence as He did for America.

**FREN 131, 132: ELEMENTARY FRENCH I, II****6 Credits**

The study is on the basic structure of the French language, paying careful attention to the oral as well as the written aspects of the language in an organized sequence. A biblical approach emphasizing the gift of "tongues" as modern intelligible language will be addressed.

**HIST 201: PRINCIPLES OF INTERNATIONAL ECONOMIC RELATIONS 3****Credits**

This course is designed to explain the structure and dynamics of international economic relations between the less developed countries (LDCs) of the Global South and the highly advanced economies of Europe and North America, as well as the factors that shape the economic relationships between these countries. It x-rays the basic economic problems of the Third World Countries and exposes the students to the causes and extent of economic inequality between and among nations of the world. Furthermore, this course exposes the

students to the supposed panacea for effecting a reversal of the dependence of the countries of the Global South on those of the Global North, in line with the various international and local efforts made in this regard. The course will however look at the Holy Scriptures' injunction as regards inequality.

**HIST 202: PRINCIPLES OF INTERNATIONAL ORGANIZATION 3 Credits**

This course is intended to introduce the basic theories and structures of International Organisations. It will limit the discussions to the following areas: Basic Approaches and Theories, Legalism, Functionalism, and Collective Security. Also, the course will cover discussions on Intergovernmental Organizations, Membership of Intergovernmental Organizations, Constitutions, Finance and Power, International Civil Services, World Orders and Codes of Conduct, Current Problems and Prospective Analysis. The course goes further to emphasize the main objectives of international organizations which are; to ensure cooperation, peace and security among states and in the global arena, a gesture which is the plan of God for humanity.

**HIST 203: FOREIGN POLICY ANALYSIS 3 Credits**

The course will deal with the following: nature of foreign policy as an activity, purpose and determinants of foreign policy, influences of internal and external pressures on foreign policy, processes of decision-making in foreign policy, different theories and categories that may be employed in foreign policy making. Some selected cases in the study of this course include: The American decision to go to war in Korea in 1950, the Cuban Missile Crisis 1962, the British decision to join the EEC in 1961-1970, the French decision to withdraw from the integrated NATO command structure in 1960, Israel's decision to go to war in June 1967, allied attack on Iraq, and other related cases. These analyses will be done in the light of the Biblical account of relationship between kingdoms.

**HIST 204: COLONIAL CONQUEST AND INDEPENDENCE MOVEMENTS IN WEST AFRICA, 1885-1960 3 Credits**

This course examines European conquest and subjugation of West Africa, with special reference to British, French, Portuguese, and Spanish colonial activities in the West African sub-region. The course outlines the modes of African resistance to the imposition of alien rule and the modes of colonial order in West Africa. It evaluates the immediate and long-term political and economic impacts of domination of West Africa by the colonial powers and the consequent struggle for political independence, emergence of modern nation states, and the problems of nation-building within the different emergent countries of West Africa. The subjugation of one community by another and the reasons for the subjugation as recorded in the Bible will be the starting point for the course.

**HIST 205: ECONOMIC HISTORY OF WEST AFRICA IN THE 19<sup>TH</sup>-CENTURY 3 Credits**

This is a general survey of the major economic developments and activities of the West African sub-region in the 19<sup>th</sup>-century. The course highlights the motivating factors of demand and supply from within the West African sub-region and such external factors of influence like contact with the Europeans and their industrial revolution, the pattern and nature of trade and the link between economic activities and political developments in the area. Finally, the course examines the nature and pattern of trade alongside the link between economic activities and political developments in the West African sub-region just as

economic activities played a very crucial role in ensuring political stability in the nations which existed in the remotest time as recorded in the Bible.

**HIST 206: HISTORY OF SOUTHERN AFRICA FROM 1400 TO 1800 3 Credits**

This is a survey of the internal historical developments in Southern Africa. The course examines such topical areas as the impact of Geography on the movement of peoples in the area, the formation of states and empires in the South African area, and the forces that were at work in the processes. Also, the course evaluates the roles of Arab, Swahili, and Portuguese traders in the area and the responses of Africans in the sub-region to the challenges posed by these external influences. The course will emphasize how inter-relationship or cooperation between different religions; indigenous, Islamic and Christianity was able to influence settlement and trade patterns of the South-African people in this era.

**HIST 207: OAU (AU) STUDY OF AFRICAN INTERNATIONAL RELATIONS**

**3 Credits**

This course examines the origins, formation, organization, and transformation of African Union (AU) which was formerly known as the Organization of African Unity (OAU). The course also examines the roles, successes, and failures of the organization in the contemporary International Relations of independent African States at various levels, as well as analyses and evaluates the problems and prospects of the organization and its member-states. The course will also discuss the fact that true and enduring unity should be premised on the word of God

**HIST 210: NIGERIA HISTORY FROM 1800-1900**

**3 Credits**

This course examines some major developmentst including internal and external factors which brought the Nigerian communities into a State. The course will highlight the introduction of Christianity into Nigeria, the reactions of Nigerians to the new religion against the background of their traditional cultures, the jihadists' movement and their impacts on Nigeria as well as the establishment of the colonial legacies. The course integrates faith and learning as it compares the earthly State which can be influenced by external and internal forces with the kingdom of God which no forces can influence.

**HIST 211: AFRICA AND EUROPEAN IMPERIALISM**

**3 Credits**

The course examines the internal and external factors and developments both in Europe and Africa resulting in European imperialism in Africa. Such factors as the prevalent socio-political and economic conditions in Africa and Europe that favoured Imperialism in Africa are core to the study of this course. Finally, the course highlights the impacts of European Imperialism on Africa and the entire world and concludes by stating that God is planning for a new world where there will not be any form of imperialism.

**HIST 212: THE OTTOMAN EMPIRE AND NORTH AFRICA SINCE 1590**

**3 Credits**

HIST 212 is a survey of the general history of North Africa and the Ottoman Empire from the later end of the last quarter of the 16<sup>th</sup>-Century up until the 21<sup>st</sup>-Century. Using the Fall of Constantinople as a background, this course highlights subsequent developments of the Ottoman Turks in international relations up to the treaty of Kutchuk Kainarji of 1774. This course further deals with the related 19<sup>th</sup>-Century historical events such as the Crimean War (1853-56) and other crises, the Young Turks (1908), the Balkan Wars (1911-1913), the First World War (1914-1918), the Middle East since 1945, the Israeli Question, Zier (1956), the Arab League, the Sheikhdoms, Oil (petroleum) and International Politics. Finally it will

establish the fact that strong Empires have risen and fallen, but only the one to be established by God will last forever.

**HIST 214: DEVELOPMENT OF GLOBAL POLITICAL ECONOMY 3 Credits**

The course examines the basic issues in contemporary International Political Economy and its impacts on the Third World Countries. It analyses the politics of International Trade, the politics of direct investment and the politics of finance. This course also covers Theory of International Trade Relations, using GATT, UNCTAD, Foreign Aid and Development, the so-called NIEO, etc. as reference points. In all, the course covers the social and institutional processes through which certain groups – mainly economic and political – choose to allocate scarce resources for their selfish benefits and those of their nations or countries. It will also discuss how the word of God can serve as the most veritable panacea to the world economic and political crises.

**HIST 216: EUROPE FROM FRENCH REVOLUTION TO WORLD WAR II 3 Credits**

This course discusses the impact of the 18<sup>th</sup>-century French Revolution in Europe and the subsequent developments leading to the First (1914-1918) and the Second (1939-1945) World Wars, the Inter-War Years, and the impacts of the wars on Europe and the modern world. The course highlights major changes in European history from 1779 to 1945 and concludes that the best which human society can achieve without the knowledge of God will still result in crisis.

**HIST 221: HISTORY OF THE USA SINCE 1877 3 Credits**

This course is a survey of historical developments of the United States of America. The contents of the course include the background of Colonial America, the American War of Independence, and the American Civil War. Other subtopics like the American Reconstruction, Industrialization, and Migrations are not left out. Furthermore, this course discusses the emergence of America as a World Power, the roles of America in world affairs and the internal and external factors and developments that influence the roles of the country. Finally, the course will examine the role of America in eschatological bible prophecies.

**FREN 215, 216: INTERMEDIATE FRENCH I, II 6 Credits**

This course involves a review of the French grammar with written and oral practice, reading on life and culture in France, ranging from simplified material to standard authors. Also, the contents of this course include readings on life and culture in Africa as well as the concept of God as the Giver of knowledge.

**HIST 305: USSR FROM 1905 to 1950 3 Credits**

This course examines the Russian Revolutions of 1905 and 1917 as well as their relevance in the political history of the country. The course examines the antecedents of the revolutions, the roles of social revolutionaries, Mensheviks and Bolsheviks, Lenin and his leadership style, the Russian Civil War (1918-1921), Stalin and “Socialism in one Country”, Russia in the Second World War (1939-1945), and the Cold War. The course will also examine the position of Russia on the issue of religion and its attendant consequence. The course will imbibe students with the knowledge that God is supreme and that despite the Marxist philosophy and its tendency of atheism as V.I Lenin imposed on USSR was a failure as the manifestation of the collapse of the Russian Republics demonstrated eventually.

**HIST 306: SOUTHERN AFRICA IN THE 19<sup>TH</sup>- AND 20<sup>TH</sup>- CENTURIES 3**  
**Credits**

The formation of State is the focal point of the first part of this course; the social, political and economic forces at work and the role of specific leaders in the formation of states in the sub-region. European incursions into Southern Africa and the establishment of colonial rule constitute the second part. The third part is the transformation of colonies into modern states and the challenges of development facing them. Finally, the political success of the states in the region after the age-long relentless struggles against foreign domination will be viewed in the context of the biblical statement of “he who endures to the end shall be saved.” The victory of the Africans as the original owners of the land and the establishment of majority rule is seen as a manifestation of God’s will on equality of human beings.

**HIST 307: COMPARATIVE INDUSTRIAL GROWTH: USA, USSR, JAPAN, CHINA, BRITAIN AND FRANCE 3 Credits**

This course examines the different approaches adopted by the various industrial powers of the world against their different backgrounds and settings to achieve industrial development. It deals with the dynamics of origin, growth, and development of industrialization in highly developing countries of the world. Comparisons of the origins, growths, and developments of industrialization in the United States of America, the USSR (now Russia), Japan, China, Britain and France will be made to show similarities and dissimilarities with the view of assisting the students to develop analytical minds in order for them to be able to comfortably engage in any form of comparative analysis of the trends of industrialization in the world. The ethical and moral issues which underpin the industrial growth of each of the world powers will also be considered.

**HIST 308: HISTORY OF THE COMMONWEALTH 3**  
**Credits**

The course examines the process, arguments and activities by which the old British Empire ruled from Whitehall before it was transformed into a commonwealth of independent and friendly nations. The discussions include the imperial Federation idea, colonial conferences (1887, 1897, 1902, and 1911), the First World War (1914 – 1918) and its effects, Imperial Conferences (1917, 1921, 1923, and 1926), and the Balfour Declaration. Other areas covered include the 1931 Statute of Westminster, the Empire – Commonwealth in 1930s, the Second World War (1939 – 1945) and its effects, independence of India, Pakistan, Ceylon, Malaysia, Ghana, Nigeria, and other colonized countries. The issues of Modern Prime Minister, Commonwealth Conference, Political exclusion (e.g. Nigeria under Abacha Regime), and the Commonwealth and former Apartheid South Africa are also included in the study. The role of religion in colonizing territories and setting them free by the British Empire will be considered side by side with the Bible.

**HIST 309: AFRICA AND THE OUTSIDE WORLD IN THE 20<sup>TH</sup> CENTURY 3**  
**Credits**

The course examines political and economic development within Africa as well as the international relations within the African countries on the one hand and between African states and the outside world on the other. The processes of colonization, independence movements, neo-colonialism are highlighted alongside some of the effects of the African states in regional and continental organization to solve the problems of poverty and political instability. Finally, the course re-examines the problem of globalization from the perspective of the Biblical prophecy.

**HIST 310: PROBLEM AND PROSPECTS OF REGIONAL ECONOMIC COOPERATION IN WEST AFRICA 3 Credits**

This course covers the origins of the idea of cooperation in West Africa, the formation of inter-governmental organizations during colonial rule and the period after political independence. It also covers the problem of the foregoing economic cooperation, particularly in respect of the largest organs of cooperation, the economic community of West Africa states (ECOWAS), the impact of the efforts at cooperation on the region's economic development, and the prospects for the future. The biblical concept of being our "brother's keeper" will be discussed.

**HIST 311: FOREIGN POLICY OF WORLD POWERS 3 Credits**

The Course discusses the Cold War with emphasis on relations between the Western and Eastern blocs; the roles of NATO and the Warsaw Pact countries; China, Cuba, and the Third World countries. The course is also examined against the biblical framework of "Love your neighbor".

**HIST 312: INTERNATIONAL RELATIONS THEORIES 3 Credits**

The course examines the various theoretical approaches used to explain interactions among states and non-state actors in the Global System, e.g. systems theory, bureaucratic theory, rational actor model, balance of power, as well as other related theories. The moral burden of each of the theories will be brought into focus as well.

**HIST 313: ISSUES IN INTERNATIONAL POLITICS 3 Credits**

The course examines issues that come into play in international politics. It focuses on issues like actors in the international system, conflict and conflict management, global security system, terrorism, diplomacy, humanitarianism, international human rights and other related contemporary issues. The Biblical view on each of these issues will be taken into consideration too.

**HIST 315: THE THEORY AND PRACTICE OF DIPLOMACY 3 Credits**

This course re-examines the origin of diplomatic practices, the functions and limitations of diplomacy, the different types of diplomacy (traditional conference, preventive or crisis diplomacy). Types of mission, diplomatic ranks, work in a mission, qualities of a mission, break in diplomatic relations, negotiation and bargaining tactics, and their case studies. Discussion on the course will also include what the Holy Scripture recommends about diplomatic relations between different communities of people.

**HIST 316: HISTORICAL RESEARCH METHOD 3 Credits**

The course – Historical Research Method – provides a detailed discussion on historical research, writing, and presentation, with the intent of acquainting the students with available sources of information, the methods of collecting, analyzing, and evaluating historical data. This course includes practical exposure to the library, the archives, and field work for the collection of oral traditions. Emphasis is on the ideal styles and procedures required to avoid unwanted pitfalls that usually affect the outcomes of research works. Accuracy and precision in writing books of the Bible will be brought into focus to enable the students understand orderly presentation of research materials.

**HIST 317: THE PRINCIPLES OF INTERNATIONAL LAW 3 Credits**

It aims to provide a modern introduction to the role of international law in international relations and in promoting Third World development and international peace and security. The course deals with some basic issues of international law. It also analyses the development of international law from a Eurocentric perspective towards an increasingly global and transitional law and emphasizes the role of the third world in the restructuring of international law. Finally, changes that have taken place will be illustrated by discussing some current developments in environmental law and the role of the International Court of Justice. The course content includes identifying God as the originator of law in order to ensure healthy relationship between God and man on the one hand and among humans on the other hand.

**HIST 318: INTRODUCTION TO CONTEMPORARY STRATEGIC STUDIES 3 Credits**

The course begins with explanation of the nature of strategic studies, its meaning and assumptions underlying contemporary strategic thought. The course further discusses the evolution of strategic thinking, against the background of the historical circumstances that acted as their determinants.

**HIST 319: NIGERIA FROM 1900 to 1970 3 Credits**

The goal of this course is to give students a broad knowledge of landmark events of the 20<sup>th</sup>-Century Nigeria. It highlights the increasing role of the European factor in the internal developments of the Nigerian areas, the fall of the indigenous state systems, the processes of colonization, decolonization, and national independence of the resulting Nigerian State. In addition, this course examines the post-independence crises like the Nigerian civil war (1967-1970) and the survival of the Nigerian State as a federation of differentiated nationalities. It will end by emphasizing the work of God in keeping Nigeria together as a single and indivisible state despite its diversity and other numerous challenges.

**HIST 321: PHILOSOPHY OF HISTORY 3 Credits**

The course examines the nature of history, its development as a discipline, and evolution of historical thoughts. It covers such sub-topics as: the subject matter of history; the different approaches to history; Jewish, Christian, and Islamic, as well as the Marxist views of history; traditional African concept of history, the problem of knowledge in history; the question of sources; historical explanation; the pursuit of objectivity; the hero in history; history and related disciplines, and the historical method included in the course also, is the view that God who inspired people to write the Bible is the source of all history.

**HIST 332: NIGERIA FOREIGN POLICY 3 Credits**

The course examines basic issues and initiatives in Nigeria foreign policy since independence. The issues examined include: The idea of Africa as center-piece of Nigeria's foreign policy, Southern African policy of the 1970s, economic diplomacy, concert of medium powers, and other related sub-topics. The course will also juxtapose the issue of national interest which forms the fulcrum of a nation's foreign policy with the divine interest which God has in the fallen human race.

**FREN 331, 336: ADVANCED FRENCH I, II 6 Credits**

This course deals with French vocabulary and idioms in everyday use, combined with pronunciation drills with special emphasis on rhythm and intonation. The course deals with writing idiomatic French with drills on difficult points of grammar. The course examines idiomatic expressions in the Bible.

**HIST 402: JAPAN FROM MEIJI RESTORATION TO THE END OF THE SECOND WORLD WAR II 3 Credits**

This course surveys the early as well as the modern history of Japan, including her external relations, modernization, nationalism, economic expansion, and recovery after the Second World War (1939 – 1945). It also examines Japanese stance on religion, particularly the Christian religion.

**HIST 403: STUDIES IN INTER-GROUP RELATIONS IN NIGERIA 3 Credits**

This study is an examination of inter-connections between groups of communities in Nigeria, the economic, social, cultural and political relations between the groups e.g. The Yoruba and Edo, the Igbo, the Hausa, the Tiv, etc., in the following categories: Relations among the coastal people in the hinterland, between the people of the savannah and those in the forest kingdoms, and between the riverine peoples and those of the mainland. The Bible as the precursor of intergroup relations will be included in the course content.

**HIST 404: THE POLITICS OF INTERNATIONAL FINANCE INSTITUTION 3 Credit**

The study begins with international monetary system before, during, and after Bretton Woods. It also discusses the institutional settings of the major world financial bodies e.g. IMF, IBRD, international liquidity problems and Eurobond markets, dollar, sterling and special drawing rights. The course further looks at politics of dominance and dependence on IMF and IBRD, voting, and allocation of quota. The course will also inquire into the perspective of the Holy Scripture as regards borrowing and its attendant consequences.

**HIST 405: NIGERIA FROM 1970 TO THE PRESENT 3 Credits**

This is a study of contemporary Nigerian history. The course examines the political, economic and social development since the end of the Nigerian civil war (1967 – 1970), efforts of reconstructions, the oil boom in the second republic, military intervention, economic depression and the unending transition programs. The course will also examine Nigeria as a religious country and the impact of that on the socio-political and economic life of the people.

**HIST 406: PROBLEMS AND ISSUES IN AFRICAN HISTORIOGRAPHY 3 Credits**

The course provides the meaning of African historiography, the written and non-written sources available for historical writing: works of Muslim writers, works of European and African writers. The uses of oral tradition, archaeology, linguistics, the inter-disciplinary approach to the study of African history are also included in the course contents. The course content also includes looking at History from the perspective of the Bible.

**HIST 407: ECONOMIC HISTORY OF NIGERIA IN THE 20<sup>TH</sup>-CENTURY 3 Credits**

The course examines the factors of change and continuity in the patterns of economic activities in Nigeria, the political and economic antecedents, the colonial setting, the new pattern of demand, the infrastructural facilities and the exploitation of agricultural and mineral resources. The course also explores the changing patterns of production units including capital accumulation, banking, industries and the role of the entrepreneurs – individuals, companies, multinationals and the government. God's model of economic prosperity will be brought into focus in the course as well.



**HIST 408: SOUTH-SOUTH AND REGIONAL CO-OPERATION IN THE THIRD WORLD 3 Credits**

This course gives an overview of the development of regional structures of cooperation in the developing world since the late 1940s. It looks first at the micro-regional organizations such as the OAS and AU. It also traces the emergence of a Third World forum of the non-allied movement. The course further examines the theories of economic integration and how they apply to Latin America and Africa, and the problems encountered by many regional integration organizations. The second part of the course surveys the developments in regional cooperation that have taken place during the last two decades. It looks at four case-studies which illustrate the diversity of forms of regional cooperation now prevalent in the developing world. The moral and ethical considerations of the various forms of cooperative efforts will be considered as well.

**HIST 409: COMPARATIVE FOREIGN POLICY 3 Credits**

This course introduces the various theoretical approaches to the study of foreign policy before proceeding to examine the foreign policy decision-making and output in selected states. The first part of the course starts with foreign policy making in the industrialized world. The case studies are the USA, the USSR, and the UK selected for their individual characteristics and the different dimensions of foreign policy making that each illustrates. The second part of the course examines the theories of foreign policy making and their applicability to foreign policy analysis in developing countries. The discussion covers quite a number of countries chosen from time to time by way of illustration. The course examines the historical dimensions of the countries' foreign policies, as well as developments and initiatives resulting from attempts to adapt to an ever-changing international environment and domestic circumstance. A little bit of comparative religion may set the tone for comparative foreign policy.

**HIST 412: CONTEMPORARY HISTORY OF THE MIDDLE EAST 3 Credits**

The course examines the unfolding events that have determined the major contours of Middle Eastern history from the Second World War to contemporary times. Among the main developments to be discussed include the creation of the state of modern Israel in the Palestine soon after the war, the reaction of the Arab nations to the establishment of modern Israel, the ensuing endless cycle of conflicts and crisis, and the emerging trends on the road map for peace in the region. Biblical worldview of the Middle East issue will also be discussed.

**HIST 417: MODERN AFRICAN POLITICAL THOUGHT 3 Credits**

This course examines the political ideas of selected African leaders from across the continent: the genesis of their ideas (including African traditional political thoughts), the impact of colonialism on the political ideas, the content of the ideologies of the examined political leaders, and the extent to which these have influenced the political organization of the New African States. The course will round off by juxtaposing African political thought with Christian religious worldview.

**HIST 418: FOREIGN POLICIES AND DIPLOMATIC PRACTICES OF AFRICAN STATES 3 Credits**

Foreign Policy concerns of African States taking into consideration the sub-regions- West, East, North and Southern African, and the pattern of their diplomatic practice will be discussed.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**  
**3 Credits**

The course examines the biblical foundations of God's intervention in History. This course is designed to bring coherence to the students' previous study of History by requiring them to reflect on the fundamental principles of the discipline and ethical responsibility in the practice of History. A biblical worldview becomes an interpretive tool in understanding the discipline. Readings and discussion are focused on developing an appreciation for the importance of historical knowledge for understanding our contemporary world. The belief that God is the Source of all History and that he plays an active role in human affairs will be examined. Students will be encouraged to apply Christian principles in their day-to-day living.

**HIST 421: COMPARATIVE PARLIAMENTARY STUDIES (NIGERIA, BRITAIN, FRANCE, INDIA)**  
**3 Credits**

A comparative discussion of the Parliamentary system as practiced by Nigeria, Britain, France and India: Common trends and distinguishing differences are identified and explained against the varying historical experiences of the communities involved.

**HIST 423: SPECIAL PAPER IN HISTORY**  
**3 Credits**

Documentary study of a historical topic selected from a range of options offered by experts in the Department. It will also involve Biblical references and sources to guide the students in their understanding and interpretation of records of the past.

**HIST 425: HISTORY OF SCIENCE AND TECHNOLOGY FROM 1500 TO PRESENT**  
**3 Credits**

This course is a survey on the history of science and technology. It deals with the 'scientific revolution' of the seventeenth century, the industrial revolution, and the diffusion of industrial technology worldwide. It deals with the major scientific discoveries of the twentieth century, the splitting of the atom, computer technology and genetic engineering. The Biblical prophecies about the scientific and technological discoveries will be examined also.

**HIST 427: ADVANCED BARGAINING AND CONFLICT RESOLUTIONS**  
**3 Credits**

This course will identify and shed light on the various means and methods of conflict resolution by critically examining some specific and notable conflicts across the globe and how peace was negotiated. Furthermore, the course discusses the attempts to reshape human society to provide and maintain a stable structure of conflict resolution just as God works to reshape humans so that they may have a stable relationship with Him.

**HIST 490: RESEARCH PROJECT**  
**6 Credits**

This course has to do with original projects based on research. Topics are selected by students guided by their supervisors and approved by the Department. Then the students go into their researches proper for findings which they later report for examination and re-examination for final approval and scoring.

## DEPARTMENT OF LANGUAGES AND LITERARY STUDIES



***Babatunde ADEBUA, Ph.D***  
**HEAD OF DEPARMENT**

### ***ACADEMIC STAFF***

Mobolanle E. SOTUNSA, Ph.D  
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Gift N. OKATA, PhD

Professor of Literature of English  
Associate Professor of English Language  
Associate Professor of Literature in English  
Associate Professor of Literature in English  
Senior Lecturer, French  
Senior Lecturer, Literature in English  
Lecturer I, English Language  
Lecturer I, Literature in English  
Lecturer I, English Language

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Simon B. AMASA, M.A.  
Shuaib MURITALA, M.A.

Lecturer I, French  
Lecturer I, French  
Lecturer I, English Language  
Lecturer II, English  
Assistant Lecturer, French  
Assistant Lecturer, French

#### **STAFF**

Olawale OLADIPO  
Olabisi OLAJIDE

Departmental Secretary  
Language Laboratory Technician

#### **PHILOSOPHY OF THE DEPARTMENT**

The Philosophy of Languages and Literary Studies department is premised on our firm resolve to produce well-rounded graduates in language and literature with a strong desire to make a significant mark in the larger society through their knowledge, consciousness of God and service to humanity.

The objectives of the department are to:

- To make the study of languages more utilitarian to match the demands and sophistication of any contemporary society.
- To produce students who have acquired proficiency in the four language skills: listening, speaking, reading and writing.
- To produce students who are well grounded in advanced linguistic and literary modes of analysis and interpretation.
- To introduce our students to the rich diversity of literature written in English and French, both locally and globally.
- To stimulate and encourage our students to become creative speakers, writers and teachers of English and French Languages.
- To enable our students become aware of the moral and spiritual values inherent in great literary works and other forms of communication in the English and French Languages.
- To foster an understanding of our history and culture, and our contemporary reality as an African society in transformation.

#### **PROGRAMME OBJECTIVES FOR B.A. (Hons.), ENGLISH**

1. To produce students with the skills and insights needed to engage with and interpret a wide variety of texts, including film and other media.
2. To introduce students to the rich diversity of literature written in English, both locally and globally.
3. to develop an awareness of, and sensitivity to, the English Language and its uses

4. to promote discussion and debate, stimulate intellectual curiosity and open up areas for further enquiry and research
5. To be accessible to students from all linguistics, educational and cultural backgrounds
6. to equip students to participate as critical and articulate citizens and agents in contemporary society
7. to develop the teaching methods and research output of staff
8. to foster an understanding of our history and culture and our contemporary reality as an African society in transformation
9. to assist in transforming the institution in which we teach
10. to help students to appreciate the Bible as an outstanding piece of literary work.

### **ADMISSION REQUIREMENTS FOR B.A. (Hons.), ENGLISH**

English Students admitted to the Department of Languages & Literary Studies for the B. A. (Hons) degree program in English must have satisfied the Babcock University admission requirements. In addition, they must have:

- i. 5 Senior Secondary School Level credits including English Language and Literature in English (for the four years' program) or its equivalent; **OR**
- ii. 3 "A" Level GCE passes including one in Literature and SSCE Level credit pass in English Language (for the three-year program).
- iii. Such student in (i) above should have passed the Babcock University Entrance Examination or JAMB in four subject areas including English Language, Literature in English, any one of Christian Religious Knowledge, History and Government and any other subject.

### **DURATION OF PROGRAMME**

The normal period for an honors degree shall be eight (8) semesters. It has duration of four years for students admitted with the Ordinary Level Certificate, and three years for those with Advance Level Certificates.

### **MINIMUM REQUIREMENT FOR GRADUATION**

169 minimum credits are required for the English Studies programme. The breakdown of the credit requirements by level are as follows:

<b>LEVEL</b>	<b>GEDS COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
<b>100</b>	<b>17</b>	<b>22</b>	<b>39</b>
<b>200</b>	<b>17</b>	<b>25</b>	<b>42</b>
<b>300</b>	<b>7</b>	<b>40</b>	<b>47</b>
<b>400</b>	<b>7</b>	<b>34</b>	<b>41</b>
<b>TOTAL</b>	<b>48</b>	<b>121</b>	<b>169</b>

**B. A. (Hons.), ENGLISH STUDIES**

**100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 095	Basic Mathematics	0	0
GEDS101	Philosophy of Christian Education	2	-
GEDS105	Use of Library and Study Skills	2	-
GEDS107	Introduction to General Psychology	2	-
GEDS112	Health Principles	-	2
GEDS120	ICT Fundamentals and Office Productivity	-	2
GEDS126	Life and Teachings of Jesus the Messiah	-	3
GEDS134	Nigerian People in Global Culture	-	2
	<b>CORE COURSES</b>		
ENGL 101	Basic Grammar	3	-
ENGL 102	English Composition	-	3
ENGL 104	Introduction to Poetry	-	3
ENGL 113	Practical Spoken English	3	-
ENGL 121	Introduction to Prose Fiction	3	-
ENGL 124	Introduction to Drama	-	3
	<b>* ELECTIVE COURSES</b>		
ENGL 126	Introduction to Theatre	-	2
ENGL 133	Literary Appreciations	2	-

ENGC 104	Introduction to the Study of Reading	-	2
ENGC 105	Introduction to Human Communication	2	-
<b>TOTAL (37 Credits)</b>		<b>17</b>	<b>20</b>

**\*Students are to select one elective course each semester.**

### **B.A. (Hons.), ENGLISH STUDIES**

#### **200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamental of Christian Faith	3	-
GEDS 204	Logic and Critical Thinking	-	2
GEDS 221	Introduction to Agriculture	2	-
GEDS 200	Communication in French	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 280	Leadership Skills	-	2
GEDS 290	Spreadsheet and Digital Presentations	-	2
	CORE COURSES		
ENGL 202	History of the English Language	-	3
ENGL 203	Introduction to English Syntax and Morphology	3	-
ENGL 205	Varieties of English	3	-
ENGL 211	Introduction to English Phonetics and Phonology	3	-
ENGL 224	English Literary History and Criticism: Classical to	-	3
ENGL 233	Modern African Literature: A Survey	3	-
ENGL 236	Nigerian Literature in English	-	3

	<b>*ELECTIVE COURSES</b>		
ENGL 234	Commonwealth Literature	-	2
ENGL 242	Creative Writing	-	2
ENGL 249	Technical Writing Skill	2	-
ENGL 271	Dynamics of Business Communication	2	-
	<b>TOTAL (42 Credits)</b>	<b>21</b>	<b>21</b>

**\*Students are to select one elective course each semester.**

### **B. A. (Hons.), ENGLISH STUDIES**

#### **300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education Education	-	2
GEDS 310	E-Customer Relationship Management	-	2
	<b>CORE COURSES</b>		
ENGL 301	English Phonology	3	-
ENGL 302	English Syntax and Lexis	-	3
ENGL 303	Stylistics	3	-
ENGL 304	Semantics	-	3
ENGL 310	Research and Scholarly Methods	-	3
ENGL 332	Contemporary African Poetry	-	3
ENGL 333	Contemporary African Fiction	3	-
ENGL 338	Contemporary African Drama	-	3
ENGL 345	Comparative Literature in English	3	-
ENGL 350	Workshops on Research and Scholarly Methods	0	0
ENGL 353	African Oral Literature	3	-



ENGL 396	Discourse Analysis	-	3
ENGL 347	Special Authors	3	-
	<b>*ELECTIVE COURSES</b>		
ENGL 397	Modern Comedy and Other Comic Forms	2	-
ENGL 354	Prize Winning Literary Works	-	2
ENGL 356	Advanced Composition	-	2
ENGL 339	Theories of Second Language (L2) Acquisition and Use	2	-
	<b>TOTAL (47 Credits)</b>	<b>23</b>	<b>24</b>

**\*Students are to select one elective course each semester.**

**B.A. (Hons.), ENGLISH STUDIES (LANGUAGE EMPHASIS)  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
GEDS 440	E-Project Management and Simulation		2
	<b>CORE COURSES</b>		
ENGL 407	Grammatical Theories I: TGG	3	-
ENGL 411	English for Specific Purposes	3	-
ENGL 419	Theories of Translation	3	-
ENGL 436	Pragmatics	-	3
ENGL 438	Grammatical Theories II: SFG	-	3
ENGL 490	Research Project	-	6
ENGL 450	Workshop in Research and Scholarly Methods	0	-

ENGL 451	The English Language in Nigeria	3	-
ENGL 452	Introduction to Text Linguistics	-	3
ENGL 453	Introduction to Sociolinguistics	3	-
	<b>*ELECTIVE COURSES</b>		
ENGL 439	The Language of Publishing	2	
ENGL 444	The Language of African-American Literature	-	2
ENGL 463	The Language of Journalism	2	
ENGL 464	The Language of African Literature in English	-	2
	<b>TOTAL (41 Credits)</b>	<b>19</b>	<b>22</b>

**\*Students are to select one elective course each semester.**

**B.A. (Hons.), ENGLISH STUDIES  
(LITERATURE EMPHASIS)**

**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 440	E- Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS400	Introduction to Entrepreneurial Skills	2	-
	<b>CORE COURSES</b>		
ENGL 421	American Literature	3	-
ENGL 423	Literary Theory and Criticism	3	-
ENGL 426	European Classics: (Drama & Prose)	-	3
ENGL 442	Poetry from the 17 <sup>th</sup> Century to the Present	-	3
ENGL 445	Diasporian Literature: African-American and Caribbean	3	-

ENGL 446	Literary Studies in the Bible	-	3
ENGL 448	Issues in Shakespearean Studies	-	3
ENGL 459	Women Writers in Africa	3	-
ENGL 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
ENGL 440	Advanced Creative Writing	2	-
ENGL 433	Autobiography and Biography	2	-
ENGL 454	Children's Theatre	-	2
sENGL 456	Play Production Methods	-	2
	<b>TOTAL (41 Credits)</b>	<b>19</b>	<b>22</b>

**\*Students are to select one elective course each semester.**

## **B.A. (Hons.), ENGLISH STUDIES**

### **COURSE DESCRIPTIONS**

#### **ENGL 101: BASIC GRAMMAR 3 Credits**

The course aims at laying a solid foundation in grammar for the fresh students studying English. It should take off from a remediation of the grammatical problems of students from the SSCE level. Emphasis should be on the English parts of speech, concord, adequate expression & mechanics. The end-product should be to produce undergraduates whose writings (or speech) will be flawless.

#### **ENGL 102: ENGLISH COMPOSITION 3 Credits**

This is a practical course in writing for students specializing in English. Attention will be focused on different types of essays. In addition there will be emphasis on word building, outlining, paragraphing and mechanics. The production of four(4) essays by each student is envisaged.

#### **ENGL 104: INTRODUCTION TO POETRY 3 Credits**

The course introduces the students, to the nature, form, varieties and characteristics of poetry. Emphasis is on poetic form and language.

#### **ENGL 104: INTRODUCTION TO THE STUDY OF READING 2 Credits**

This course introduces the study of reading as communication arts. Practical reading sessions will be included in the course.

#### **ENGL 113: PRACTICAL SPOKEN IN ENGLISH 3 Credits**

This course aims at improving the students' speech production. Attention will be focused on the correction of interference features in the sentence, word stress, and intonation. Individual development of internationally intelligible educated English will be encouraged. The examination may include practical.

#### **ENGL 121: INTRODUCTION TO PROSE FICTION 3 Credits**

The course introduces the students to the novel as an art form. Emphasis is placed on the techniques of fiction, characterization, plot, story, dialogue, and thematic development.

#### **ENGL 124: INTRODUCTION TO DRAMA 3 Credits**

The course introduces the student to the nature, form, and characteristics of drama. Emphasis is on action, dialogue and the techniques of drama analysis.

#### **ENGL 126: INTRODUCTION TO THE THEATRE 2 Credits**

The course examines the nature of the theatre as well as its diversity and scope in terms of its development from earliest times.

#### **ENGL 133: LITERARY APPRECIATION 2 Credits**

The course involves a close textual analysis and appreciation of prose passages, plays, and poems, mastering of the required techniques is to be emphasized.

**ENGC 105: INTRODUCTION TO HUMAN COMMUNICATION 2 Credits**

This course is an introduction to the three basic systems of human communication. Features of writing system such as Language, meaning and communication will be taught.

**ENGL 202: HISTORY OF THE ENGLISH LANGUAGE 3 Credits**

Introduction to the study of Language; the nature and function of Language, and the historical changes in English phonology, morphology, grammar, and vocabulary from the beginning of the language to the modern period.

**ENGL 203: INTRODUCTION TO ENGLISH SYNTAX AND MORPHOLOGY 3 Credits**

This course is to introduce the students to the morphology and syntax of English. The general principles of word formation and sentence. The course exposes the student to the methods of acquiring skills in creative writing. Systematic guidance to the production of children's texts, playlets, poetry, songs, and short stories is offered. It is an opportunity for the novice writer to develop imaginative expression in poetry, fiction and drama. Introduces students to the means of publication and competition. The course may be supported by a work shop at which invited writers will discuss creative writing with the students.

**ENGL 205: VARIETIES OF ENGLISH 3 Credits**

Language and Foreign Language varieties of English will be covered. Attention will also be paid to the distinction between standard and non-standard varieties of English. Concepts like dialect, register etc will be treated.

**ENGL 211: INTRODUCTION TO ENGLISH PHONETICS AND PHONOLOGY 3 Credits**

The aim of the course is to introduce students to the principles of phonetic description and taxonomy, illustrated by practical examples and language laboratory exercises. The course is also a description of phonological units—the tone group, the foot, the syllable and phonemes.

**ENGL 224: ENGLISH LITERARY HISTORY AND CRITICISM: CLASSICAL TO MODERN 3 Credits**

The course gives a broad view of English literature spanning the Middle Ages to the Renaissance period and the 20<sup>th</sup> Century while simultaneously paying attention to the literary movement and their socio-cultural backgrounds. This course covers the three genres.

**ENGL 233: MODERN AFRICAN LITERATURE: A SURVEY 3 Credits**

The course provides an overview of contemporary African Literature in English with emphasis on its historical development and its regional characteristics. A representative selection of texts covering prose fiction, poetry, and drama will be used for the course.

**ENGL 234: COMMONWEALTH LITERATURE 2 Credits**

The focus of this course is on the themes, style, and patterns of development of literatures from the following commonwealth countries: Australia, Canada, India, Malaysia, New Zealand and Singapore.

**ENGL 236: NIGERIAN LITERATURE IN ENGLISH 3 Credits**

This course will present a comprehensive survey of the literary offerings of Nigeria situating it within the socio-cultural context. It will cover the major literary genres: prose, poetry and drama and pay special attention to contemporary Nigerian writers.

**ENGL 249: TECHNICAL WRITING SKILL 2 Credits**

Practice in oral and written skills for technical communication. Covers the basic forms of communication within business organizations, writing of various types of business letters, memos and reports, writing and employment communication, writing of agenda and minutes of meetings among other things will be covered.

**ENGL 271: DYNAMICS OF BUSINESS COMMUNICATION 2 Credits**

Basic communication skills, importance of communication within business organizations features of various types of communication-verbal.

**ENGL 301: ENGLISH PHONOLOGY 3 Credits**

This course is a study of the sound system. The vowels and consonants of Standard English, their distributional patterns and textual functions in speech, poetry and music will be covered. A systematic study of the structures and functions of the syllable, the foot, and the tone group is the focus of this course. The descriptions will be related to practical analysis of different varieties of spoken English texts.

**ENGL 302: ENGLISH SYNTAX AND LEXIS 3 Credits**

The main aim of the course is to study the structure of English with reference to a given grammatical, fiction, characterization, plot, story, dialogue, and generation will be treated thematic development.

**ENGL 303: STYLISTICS 3 Credits**

This course aims to familiarize the students, with the techniques of traditional stylistics. Norm and deviation, the problem of style, the various types of stylistics, and the use of stylistics in language teaching are some of the topics that will be covered. It also considers the relevance of adopting linguistics to the study of literature.

**ENGL 304: SEMANTICS 3 Credits**

The problems of the study of meaning in English, the various approaches to the study of meaning, and semantic meaning variation in second language use will be covered in this course. Methods of semantic analysis will also be covered.

**ENGL 310: RESEARCH AND SCHOLARLY METHODS 3 Credits**

The course introduces students to research methods, proposals, documentation, interviews, data collections, organization of materials, quotations, acknowledgements and the presentation of notes, references, and bibliographies. Specialization in Language and Literature will be catered for during the lectures.

**ENGL 332: CONTEMPORARY AFRICAN POETRY 3 Credits**

This course will examine modern African poetry with focus on style, contents, and effectiveness of communication. The course investigates the diversity and social functions of modern African poetry.

**ENGL 338: CONTEMPORARY AFRICAN DRAMA 3 Credits**

A study of the preoccupations, techniques, diversities and social functions of modern African drama is the focus of this course.

**ENGL 339: THEORIES OF SECOND LANGUAGE (L<sub>2</sub>) ACQUISITION AND USE 2 Credits**

Contrastive analysis, error analysis and inter language, second language, empiricism and imagism are to be covered in this course. The acquisition of different grammatical and phonological units of English will also be covered.

**ENGL 350: WORKSHOPS ON RESEARCH AND SCHOLARLY METHODS 0 Credit**

The course presents workshops on pertinent aspects of research and applicable methodologies in specific lacuna in literature that exist in both language studies and literature.

**ENGL 354: PRIZE WINNING WORKS 2 Credits**

The course provides an exposition of prizewinning African literature. It concentrates on the unique literary features of the selected works like style, theme and characterization that mark them as prizewinning works.

**ENGL 356: ADVANCED COMPOSITION 2 credits**

This is essentially a practical course that enables students to write consistently on other Forms of compositions such as memoranda, minutes, speeches and reports.

**ENGL 397: MODERN COMEDY AND OTHER COMIC FORMS 2 Credits**

The course examines the unique literary features of modern Nigerian/English comedies and other modern comic forms. Compares and contrasts older comedies and modern comedies in terms of style, theme, plot, characterization and diction.

**ENGL 408: SPECIAL AUTHORS 3 Credits**

The course examines literary features of African drama and poetry with emphasis on contemporary critical approaches, and a survey of the writings of one major African Novelist, Poet or Dramatist.

**ENGL 451: THE ENGLISH LANGUAGE IN NIGERIA 3 Credits**

Problem of definition, history, typology (basilect, mesolect and acrolect), regional varieties, grammar, phonology, lexis and semantics of Nigerian English will be covered. The course will be

**ENGL 411: ENGLISH FOR SPECIFIC PURPOSES 3 Credits**

The course is to study the ways in which English may be adopted to particular circumstances and purposes, with emphasis on specialized varieties of English, the language of journalism, bureaucracy, science and technology, public speaking, ordinary conversation, etc. students are to write a short project involving fieldwork on any of the areas covered.

**ENGL 421: AMERICAN LITERATURE****3 Credits**

This course is a study of the major works of American Writers. It examines the thematic preoccupations and techniques of these writers and identifies the distinctive features of American Literature.

**ENGL 423: LITERARY THEORY AND CRITICISM****3 Credits**

A course in the history of literary criticism focusing on general critical principles and the recent archetypal, formalistic, sociological criticisms and the post modern and avant garde doctrines. An attempt will be made to relate these to problems in criticism of African literature.

**ENGL 426: EUROPEAN CLASSICS: (DRAMA AND PROSE) 3 Credits**

The course examines the classics of European literature. It concentrates on the unique features of the selected literary works like style, theme and characterization that give selected works their permanent places in the annals of European masterpieces.

**ENGL 433: AUTOBIOGRAPHY AND BIOGRAPHY 2 Credits**

An interdisciplinary complement to previous or simultaneous study in literature, history and culture. Focus is on the development of autobiography and biography as genres.

**ENGL 436: PRAGMATICS****3 Credits**

The course is designed to introduce the students to the theories and practices of translation; a crucial skill in bilingual and multilingual studies. The effect of the different approaches to translation on translated texts will also be attended to. Each student will be encouraged to work on his/her mother tongue.

**ENGL 438: GRAMMATICAL THEORIES II: SFG****3 Credits**

The philosophy and descriptive categories of systemic grammar will be covered in this course. The representation of natural language, situation and context, pedagogical linguistics, computer, discourse analysis, text linguistics and the applications of systemic grammar in literary studies will be covered. Emphasis will be given to practical descriptive skills.

**ENGL 439: THE LANGUAGE OF PUBLISHING 2 Credits**

This course aims to prepare the students to function in the publishing industry. The linguistic features of editing, assessment of scripts, modification, correction, the preparation of page proof, selection of types, layout and selection of title, etc will be covered in this course. The function of a literary agent will also be covered.

**ENGL 440: ADVANCED CREATIVE WRITING****2 Credits**

This is essentially a practical course that enables students to write consistently and specialize in a branch of creative writing of which are some of the following: The short story, play, poetry, songs and children's literature. The student is expected to submit a mini-project in his chosen area of specialization.

**ENGL 442: POETRY FROM THE 17<sup>TH</sup> CENTURY TO THE PRESENT 3 Credits**



This is a survey of English poetic works representative of the different periods, trends and poetic forms from the 17<sup>th</sup> century to the present.

**ENGL 444: THE LANGUAGE OF AFRICAN-AMERICAN LITERATURE**

**2 Credits**

The study of the peculiar linguistic and textual features of African-American poetry, drama, and prose in English is the focus of this course. Text incorporation and translation techniques will also be covered.

**ENGL 445: DIASPORIAN LITERATURE: AFRICAN-AMERICAN AND CARRIBEAN**

**3 Credits**

This course will examine the themes and writings of black literature in the Diaspora. It also examines the literatures produced by African Americans against the backdrop of its antecedents in slave narratives and the influence of literary movements like the Harlem renaissance. Emphasis will be placed on the unique style and vision of African American writing as well as the nature and scope of Caribbean writing within the context of black literature from the diaspora.

**ENGL 446: LITERARY STUDIES IN THE BIBLE**

**3 Credits**

The aim is to study the literary elements such as plot, character, tone, imagery and symbol in selected portions of the English Bible. Emphasis will be on a greater appreciation of the Bible's artistic characteristics which has enhanced its theological and spiritual qualities.

**ENGL 448: ISSUES IN SHAKESPEAREAN STUDIES**

**3 Credits**

The course examines the dramatic art of Shakespeare. The study also considers representative plays, including songs, history plays, great tragedies, romances, comedies and sonnets. The focus is on his dramatic techniques, his social vision, and the humanism that underlines his works. A distinction is made between his tragedies, comedies and histories.

**ENGL 454: CHILDREN'S THEATRE**

**2 Credits**

History of the development and function of children's theatre. Also explores the approaches to and mounting of a performance for children and young people in general.

**ENGL 456: PLAY PRODUCTION METHODS**

**2 Credits**

Approach to and understanding the fundamental principles of preparing a play for public presentation.

**ENGL 459: WOMEN WRITERS IN AFRICA**

**3 Credits**

This is essentially a practically course that enables students to write consistently and specialize in a branch of creative writing of which are some of the following: The short story, play, poetry, songs and children's literature. The student is expected to submit a mini – project in his chosen area of specialization.

**ENGL 463: THE LANGUAGE OF JOURNALISM**

**2 Credits**

This is an in-depth study of the language of journalism. News writing and delivery, editorials, features, articles analysis, house style, etc. will be covered. The language of

advertising will also receive special attention. Candidates will be encouraged to produce publishable materials.

**ENGL 464: THE LANGUAGE OF AFRICAN LITERATURE IN ENGLISH**

**2 Credits**

The study of the peculiar linguistic and textual features of African-American poetry, drama, and prose in English is the focus of this course. Text incorporation and translation techniques will also be covered.

**ENGL 490: RESEARCH PROJECT**

**6 Credits**

The student is expected to submit a long essay in English Language or linguistics. The essay should be made up of about 5,000 words on an approved topic, researched and written under the guidance of an assigned supervisor.

## **B.A. (HONS.), FRENCH**

French is being packaged to prepare and produce graduates who will be eminently equipped with linguistic skills and competence in both oral and written communication in French.

### **1. Objectives of the Programme.**

The overall aim of bachelor honors degree programme in French is to:

Produce graduates who can fit into the growing needs of both the corporate and the institutional worlds within and outside the country. Promote cultural exchange between Nigeria and the Francophone countries in the sub region, on one hand, as well as France, on the other hand, for mutual benefit.

Aid evangelism in the West-Central African Division as linguistic barriers between francophone and Anglophone countries will be removed.

- A. The specific objectives: By the end of this programme the students should be able to:
- i. Teach French Language.
  - ii. Acquire a deep knowledge of French language so as to be able to conduct academic research in French.
  - iii. Acquire information on the structure, phonetics and phonology of French language for effective international intelligibility
  - iv. Translate texts from French into English and vice versa as well as undertake interpretation in both languages
  - v. Become aware of the moral and spiritual values inherent in great literary work in French Language.
  - vi. Start post graduate studies in the nearest future.
  - vii. to develop in students a critical, reflective and to provide an opportunity for students to study
  - viii. to familiarize students with the principles underlying the study of French Language and current trends in both fields
  - ix. to produce students who are self-reliant and independent through the acquisition of useful knowledge.
  - x. to enhance students' ability to use French Language as an effective instrument of thought and communication.

## **ADMISSION REQUIREMENTS FOR B.A. (HONS.), FRENCH**

French Students admitted to the Department of Languages & Literary Studies for the B.A. (Hons) degree program in French and International Relations must have satisfied the Babcock University admission requirements. In addition they must have:

- i. 5 credits Senior Secondary School Level including English and any four others subjects include French or History or Government OR
- ii. G.C.E. A/L, Baccalaureate or NFLV Diploma for those coming in through Direct Entry. Such student in (i) above should have passed the Babcock University Entrance Examination or JAMB in four subject areas including French Language.

**MINIMUM REQUIREMENTS FOR GRADUATION**

176 minimum credits are required for the French Programme The breakdown of the credit requirements by level are as follows:

**MINIMUM CREDITLOAD FOR B.A. (Hons.), FRENCH**

<b>LEVEL</b>	<b>GENERAL EDUCATION COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
100	18	24	42
200	15	33	48
300	7	36	43
400	7	36	43
<b>Sub-Total</b>	<b>47</b>	<b>129</b>	<b>176</b>

## B.A. (Hons.), FRENCH

### 100 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principle	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
FREN 121	French Grammar I	3	-
FREN 122	French Grammar II	-	3
FREN 123	French Composition I	3	-
FREN 124	French Composition II	-	3
FREN 125	African Literature in French I	3	-
FREN 126	African Literature in French II	-	3
FREN 128	Introduction to French Phonetics	-	3
FREN 129	Laboratory Work in French Language	3	-
	<b>TOTAL (43 Credits)</b>	<b>20</b>	<b>23</b>

## B.A. (Hons.), FRENCH

### 200 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 280	Leadership Skills	-	2
GEDS 290	Advanced Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
FREN 220	Phonetics and Phonology of French I	3	-
FREN 221	French Grammar III	3	-
FREN 222	Phonetics and Phonology of French II	-	3
FREN 223	French Composition III	3	-
FREN 224	French Grammar IV	-	3
FREN 226	French Composition IV	-	3
FREN 227	African Literature in French III	3	-
FREN 228	French Literature of 16 <sup>th</sup> and 17 <sup>th</sup> Century	-	3
FREN 229	Textual Analysis I	3	-
FREN 230	Textual Analysis II	-	3
FREN 231	Le nouveau Roman	3	-
	<b>TOTAL (48 Credits)</b>	<b>25</b>	<b>23</b>

**B.A. (Hons.), FRENCH STUDIES**

**300 LEVEL**

**(The 300 Level Session is spent at the French Village Immersion Programme)**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
FREN 315	Studies in Translation I	3	-
FREN 316	Studies in Translation II	-	3
FREN 323	Further Studies in French Phonetics	3	-
FREN 324	Introduction to Morphology and Syntax	-	3
FREN 325	French Grammar V	3	-
FREN 326	French Grammar VI	-	3
FREN 327	Advanced French composition I	3	-
FREN 328	Advanced French Composition II	-	3
FREN 329	Post-Independence French African Literature I (2 novels to be studied)	3	-
FREN 330	Culture and Civilization of Four Francophone Countries in West African	-	3
FREN 332	French Literature in 18 <sup>th</sup> Century	-	3
FREN 334	Introduction to Research in French	-	3
	<b>TOTAL (43 Credits)</b>	<b>20</b>	<b>23</b>

**B.A. (Hons.), FRENCH STUDIES**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 440	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
FREN 423	French Grammar VII	3	-
FREN 424	French Grammar VIII	-	3
FREN 425	Advanced Composition III	3	-
FREN 426	Contributions of Linguistics in the teaching and Learning of French as a foreign Language	-	3
FREN 427	Post-Independence French African Literature II (One drama text 3 novels)	3	-
FREN 428	19 <sup>th</sup> and 20 <sup>th</sup> Century French Literature	-	3
FREN 429	Comparative Studies of Francophone African and Caribbean Literature	3	-
FREN 430	African Literature in French: Two Post Independence Novels	-	3
FREN 431	Translation Theories and Practice III	3	-
FREN 432	Translation Theories and Practice IV	-	3
FREN 490	Research Project (Long Essay)	-	6
	<b>TOTAL (43 Credits)</b>	<b>20</b>	<b>23</b>



## **B.A. (Hons.), FRENCH**

### **COURSE DESCRIPTIONS**

#### **FREN 121: FRENCH GRAMMAR I 3 Credits**

This grammar course will introduce students to the rules as well as elementary French grammatical structures. The following aspects will be taught: definite and indefinite articles; number and gender of nouns and adjectives; personal pronouns; conjugation of the following verbs: être, avoir, aller, -er and -ir in the present and present perfect tenses in the indicative mood; interrogation and negation; numbers up to one thousand will be taught.

#### **FREN 122: FRENCH GRAMMAR II 3 Credits**

The course is the continuation of FREN 121. It revises the grammar points earlier taught in FREN121. In addition, the following topics will be treated: conjugation of third group verbs and irregular verbs, possessive and demonstrative pronouns, adjectives, relative pronouns the future and imperfect tenses and the conditional moods.

#### **FREN 123: FRENCH COMPOSITION I 3 Credits**

French composition exposes learners to writing in French language and develops their skills in writing compositions. The course lays emphasis on a good plan, correct grammar, punctuation, paragraphing and logical presentation of ideas.

#### **FREN 124: FRENCH COMPOSITION II 3 Credits**

Introduction of the rudiments of writing French composition to students. The course ensures the improvement of students with exercises. At the end of the course, students would be able to recognize different types of composition, in writing letters and short stories, write summaries in French, do simple argumentative writes-ups and state their own positions on topic and write out outlines for minutes, reviews, editorials, etc.

#### **FREN 125: AFRICAN LITERATURE IN FRENCH I 3 Credits**

##### **Course Objective**

This is an introductory course to the understanding of the literary genres and French literary movements. The specific genre that is focused on is the prose: the novel tales, short stories and essays. The literary movements are to be studied as a distinctive aspect of French literature, while mention shall be made of the different French literary movements. The movements that exemplify the prose as a literary genre shall be singled out for careful study.

#### **FREN 126: AFRICAN LITERATURE IN FRENCH II 3 Credits**

##### **Course Objective**

This course is devoted to a careful examination and critical analyses of the major stages in the development of African Literature in French from its origins, to independence. It involves among other things, the identification of the historical, political, social and cultural factors responsible for the emergence of African Literature in French and also of the major themes as treated in the works written by Francophone African writers. The techniques of the literary genres (of prose:

the novel, tales and short stories, drama and poetry) are to be carefully studied. Literary texts representing each of the. Literary genres are to be carefully studied.

**FREN 128: INTRODUCTIONS TO FRENCH PHONETICS 3 Credits**

This is the study of language mechanisms. The basis of understanding phonetics will be laid by a proper definition of terms and the study of diagrams of the speech organs. The emphasis is laid on acquisition of good pronunciation of French sounds. Different sounds will be studied, based on the IPA (International Phonetic Alphabet). The course will include the use of the International Phonetics Alphabet for transcription, phonetics theory and corrective phonetics. Throughout the course, students are encouraged to value their God-given faculty of language and their communication skills.

**FREN 129: LABORATORY WORK IN FRENCH LANGUAGE 3 Credits**

This course is an introduction to speech as a gift of God. It will enable students to acquire a good French speech speed through systematic repetition and audition of phonetic and grammatical patterns in the language laboratory. It will also enable students to acquire speech automatisms necessary for the mastery of the language. The course evaluates students ability to pronounce French consonants and vowels, paying a particular attention on the difference between French and other language, particularly English. The vocabulary used will include the parts of the body and common related expressions.

**FRCH 220: PHONETICS AND PHONOLOGY OF FRENCH I 3 Credits**

The course presents a systematic description of French sounds, both at phonetic and phonological levels. At phonetic level, it will include the use of the International Phonetic Alphabet (API) for transcription, phonetic theories and corrective phonetics. Further, it will focus on a systematic study of French functional sounds, the analysis of minimal pairs, phonemes and allophones. The course is intended to introduce students to a deeper knowledge of French sound system.

**FREN 221: FRENCH GRAMMAR III 3 Credits**

Grammatical elements taught in FREN121 and FREN 122 will be revised. The following will be added: The pluperfect, the future perfect, the conditional, the subjunctive, the passive voice, irregular verbs and the relative pronoun ‘dont’

**FRCH 222: PHONETICS AND PHONOLOGY OF FRENCH II 3 Credits**

The course is the advanced level of FREN 220. It presents a systematic description of French sounds, both at phonetic and phonological levels. The mastery of French consonants and vowel charts is highly expected. At phonetic level, it will include the use of the International Phonetic Alphabet (API) for transcription, phonetic theories and corrective phonetics. Further, it will focus on a systematic study of French functional sounds, the analysis of minimal pairs, phonemes and allophones. The course is intended to introduce students to a deeper knowledge of French sound system. Students are also expected to show good mastery of French pronunciation and transcription.

**FREN 223: FRENCH COMPOSITION III 3 Credits**

The course is devoted to the understanding of how to write letters, short, descriptive narratives, short reports and comments on contemporary issues and happenings. The use of correct and appropriate words and expressions is emphasized, so also is the use of correct grammar. Attention of students is drawn to the classical phases of essay-writing; introduction, development and conclusion.

**FREN 224: FRENCH GRAMMAR IV 3 Credits**

This course revises grammar points in FREN 221 as well as provides students with sufficient opportunity for additional work on all language competences: reading, comprehension and summary writing.

**FREN 226: FRENCH COMPOSITION IV 3 Credits**

The course is devoted to the understanding of how to write letters, short, descriptive narratives, short reports and comments on contemporary issues and happenings. The use of correct and appropriate words and expressions is emphasized, so also is the use of correct grammar. Attention of students is drawn to the classical phases of essay-writing; introduction, development and conclusion.

**FREN 227: AFRICAN LITERATURE IN FRENCH III 3 Credits**

This course is devoted to a careful examination and critical analyses of the major stages in the development of African Literature in French after its independence. It involves among other things, the postcolonial identification of history, politics, social and cultural factors responsible for the emergence of African Literature in French and also of the major themes as treated in the works written by Francophone African writers. The techniques of the literary genres (of prose: the novel, tales and short stories, drama and poetry) are to be carefully studied. Literary texts representing each of the literary genres are to be carefully studied.

**FREN 228: FRENCH LITERATURE OF THE 16<sup>th</sup> and 17<sup>th</sup> CENTURY 3 Credits**

A panoramic examination of 17<sup>th</sup> century French literature and thoughts, with emphasis on classicism at a literary school and life-style: its thrust, rules, tenets as well as its philosophical and stylistic orientations with representative works selected from the works of Corneille, Racine, La Fontaine, Madame de la Fayette, La Rochefoucault, Descartes, Pascal, etc; Specifically, the under listed features will be covered

**FREN 229: TEXTUAL ANALYSIS I 3 Credits**

The course involves the textual analyses of diverse French texts chosen from a wide range of sources and covering different areas of human activities and creative experiences. At the end of the course, students will be able to identify meanings in context of French words; understand and identify French language registers in different types of texts; be analytical in the use and choice of French words; apply idioms, sayings and proverbs in right context.

**FREN 230: TEXTUAL ANALYSIS II 3 Credits**

It is the continuation of FREN 229; it involves the analysis of the style of French texts using concepts and insights from linguistics. This will involve the stylistics analysis of not only the different, literary genres but also different non-literary discourse, political discourse, social discourse and various disciplinary discourses.

**FREN 231: LE NOUVEAU ROMAN 3 Credits**

The course is to introduce to the students the main features of 20<sup>th</sup> century literature. The study is to be supported by extracts from simple literary works by well-known French writers. The relationships and links between these genres and French movements shall be noted, while the styles and distinctive of literary features that characterize 20<sup>th</sup> literature and the styles in the extracts; shall be examined

**FREN 315: STUDIES IN TRANSLATION I 3 Credits**

This course is essentially the introduction of the theories of translation and practice of translation from English to French and vice versa. It involves a systematic practice in the translation of texts, covering francophone newspapers, articles, administrative, commercial, technical and literary texts.

**FREN 316: STUDIES IN TRANSLATION II 3 Credits**

This course is the continuation of the work done in FREN 315 and treats more complex principles of translation. It highlights stylistic differences between English and French through intensive exercises in class.

**FREN 323: FURTHER STUDIES IN FRENCH PHONETICS 3 Credits**

A study of French Phonetics including the use of the international Phonetics Alphabets for transcription, phonetic theory and corrective Phonetics. This course brings students to a very good level of fluency and understanding of the French language, through intensive exercises in the production and comprehension of complex sentence patterns. It also aims at bringing students to a very high level of French sound production and discrimination, through oral exercises and laboratory work. It seeks to impart skills in speech sounds and detail of the various dimensions of sound description and transcription.

**FREN 324: INTRODUCTIONS TO MORPHOLOGY AND SYNTAX OF FRENCH 3 Credits**

The course introduces morphology (the study of word forms) and syntax (the study of sentence structure) as language branches of study. It studies the word formation in French, showing how different affixes are added to stems to form new words. It will elaborate on the derivational and functional affixes on nouns, adjectives, verbs, adverbs, pronouns, etc. It further introduces the nuclear sentence and sentence patterns of French language. Different theories in syntactic will be considered. Students will be required to present systematic analysis and diagrams of word structures and sentences.

**FRCH 325: FRENCH GRAMMAR V 3 Credits**

The course is intended to analyze the French language morphological structures, the formation of words, meaning of stems and affixes and the sentence patterns. It will also analyze syntactic

components and processes such as passive, complementation and negation, and with focus on syntactical rules. This course will emphasis on the sentence patterns and the study of syntactic processes such as passivization, complementation and negation, and with focus on the major principles and parameters. A systematized linguistic study of conjugation of verbs, with highlight on moods and tenses will also be done. Many sentences and word structures will be taken from the French Bible and students will be given assignments on some biblical texts analysis.

**FREN 326: FRENCH GRAMMAR VI 3 Credits**

The course is intended to analyze the French language morphological structures, the formation of words, meaning of stems and affixes and the sentence patterns. It will also analyze syntactic components and processes such as passive, complementation and negation, and with focus on syntactical rules. This course will emphasis on the sentence patterns and the study of syntactic processes such as passivation, complementation and negation, and with focus on the major principles and parameters. A systematized linguistic study of conjugation of verbs, with highlight on moods and tenses will also be done. Many sentences and word structures will be taken from the French Bible and students will be given assignments on some biblical texts analysis.

**FREN 327: ADVANCED FRENCH COMPOSITION I 3 Credits**

The course enables the learners to write on formal and informal letters, descriptive and narrative essays. The student will be able to write short stories in standard French. In other words, the course enables the students to acquire linguistic competence in written communication in French.

**FREN 328: ADVANCED FRENCH COMPOSITION II 3 Credits**

Advanced French composition II is the continuation of FREN 327. The course seeks to produce students who are self- reliant and independent through the acquisition of useful knowledge. The course develops in students a critical thinking and provides an opportunity for students to be familiarized with current trends and the principles underlying the study of French Langue.

**FRE 329: POST INDEPENDENCE FRENCH AFRICAN LITERATURE 3 Credits**

It involves the study of the major stages in the development of African literature of French expression from independence to the present day. The main features of each of the stages shall be carefully examined and tied to the creative works of the writers. The various writers, reflecting the geo-political Francophone African zones and the emergence of female writers, shall be identified. The themes and techniques of the writers shall be studied as exemplified in some representative literary texts belonging to the three literary genres and reflecting both male and female writers.

**FREN 330: CULTURE AND CIVILIZATION OF FRANCOPHONE COUNTRIES IN WEST AFRICA 3 Credits**

This course is devoted to the main features of the Francophone countries. French influence in Africa, the history and institutions of the major French speaking countries of the world. Also to be examined are French colonial policies. French colonization and the march of the former colonies of France toward independence. An attempt is made to compare “la Francophonie” with the British Commonwealth.

**FREN 332: FRENCH LITERATURE IN 18<sup>TH</sup> CENTURY 3 Credits**

This course introduces students to the various aspects of 18<sup>th</sup> century French literature and thoughts. The major writers of the century: Montesquieu, Voltaire, Diderot, J.J. Rousseau, Chénier, Beaumarchais will be examined and a few of their works will be studied.

**FREN 334: INTRODUCTIONS TO RESEARCH IN FRENCH 3 Credits**

The course deals with techniques in conducting an academic research. The course provides students with the techniques of conducting research at which God will be at the center of excellence of their development. It will present the definition and purpose of a research, the prerequisites, the types of research, and a detailed study of the different parts of a final year project proposal. The emphasis is laid on the deduction and description of the problem, justification, methodology, research questions and objectives, the project plan, the body of the project and the conclusion. Also, principles of research originality, plagiarism free, referencing and types of referencing styles are discussed.

**FREN 423: FRENCH GRAMMAR VII 3 Credits**

This course is the structural study of French grammar at advanced level. Students are expected to perform their best level in grammar and apply it in writings, text analysis and oral practice. The course is intended to analyze the French language morphological structures, the formation of words, meaning of stems and affixes and the sentence patterns. It will also analyze syntactic components and processes such as passive, complementation and negation, and with focus on syntactical rules. This course will emphasize on the sentence patterns and the study of syntactic processes such as complementation and negation, and with focus on the major principles and parameters. A systematized linguistic study of conjugation of verbs, with highlight on moods and tenses will also be done. Many sentences and word structures will be taken from the French Bible and students will be given assignments on some biblical texts analysis.

**FREN 424: FRENCH GRAMMAR VIII 3 Credits**

This course will pass in review most of the grammatical aspects discussed in previous courses and focus on the logical analysis of sentences. The systematic review of modes and tenses is expected. The course ponders on the study of coordination, relative clauses and pronouns, the subordination and infinitives. Students are highly expected to draw trees and show complex sentences, illustrate principal and subordinated clauses, their nature and functions. Students are also expected in this course to analyze many excerpts from current magazines, journals and the Bible, to illustrate the theoretical patterns of this study.

**FREN 425: ADVANCED COMPOSITION III 3 Credits**

The course is aimed at exposing students to the exploitation of the various stylistic devices and language registers in order to write essays/ reports/ comments on topics that call for the use of French language from the perspectives of critical thinking, analytical insights and a deep understanding of the language. Extracts from good French newspapers (e.g. Jeune Afrique, Le Monde, La Mode, L'Express etc.) as well as text books on current issues are selected analysed to enable students to appreciate standard French which would serve as their models. Students are expected to write their reactions to issues discussed in the extracts studied in class.

**FREN 426: CONTRIBUTIONS OF LINGUISTICS IN THE TEACHING AND  
LEARNING OF FRENCH AS A FOREIGN LANGUAGE 3 Credits**

The course places emphasis on the application of French language with insights from structural and transformational grammar. Aspects of linguistics such as syntax and semantics, and their application to French as a foreign language will be carried out. More exercises will be carried out to test the understanding and ability of students.

**FREN 427: POST INDEPENDENCE FRENCH AFRICAN LITERATURE (ONE DRAMA  
TEXT AND 3 NOVELS) 3 Credits**

This course is a continuation of FREN 329. It involves the study of the current stages in the development of African literature of French expression from independence to the present day. The main features of each of the genre shall be carefully examined and tied to the creative works of the writers. The various writers, reflecting the geo-political Francophone African zones and the emergence of female writers, shall be identified. The themes and techniques of the writers shall be studied as exemplified in some representative literary texts belonging to the three literary genres and reflecting both male and female writers.

**FREN 428: 19<sup>TH</sup> AND 20<sup>TH</sup> CENTURY FRENCH LITERATURE 3 Credits**

Study of romanticism, realism existentialism etc., based on specific texts, from poetry and drama, with a careful identification of links/relationships with socio-political and philosophical factors that conditioned the thematic preoccupations of the writers will be explored to enable student a better understanding. The main literary genres are studied in the context of the points mentioned above. The leading writers of (like Victor Hugo, Lamartine, Balzac, Camus etc) are studied with their representative works critically examined.

**FREN 429: COMPARATIVE STUDIES OF FRANCOPHONE AND CARIBBEAN  
LITERATURE 3 Credits**

The study involves the introduction Caribbean literature: from colonial to the present day. Features of West African French literature will be compare alongside with Caribbean literature. Famous writers from the two zones shall be explored in other to give a comprehensive understanding of African French literature and Caribbean literature.

**FREN 430: AFRICAN LITERATURE IN FRENCH (2 NOVELS) 3 Credits**

This course is a continuation of FREN 329 and 427. It involves studying themes, characters, style of the writers. At the end of the course, student should be able to situate a writer and give a know how to give a good critic on African's novels and their writers

**FREN 431: TRANSLATION THEORIES AND PRACTICE I 3 Credits**

This course presents translation as a process, a creative art / a science and a discipline. The translator is defined as a professional. Attention will be drawn to the various steps that are taken to translate a text. Exercises will be drawn from different disciplines and in various registers.

**FREN 432: TRANSLATION THEORIES AND PRACTICE II 3 Credits**

This course is the continuation of Translation courses taught in earlier semesters. There will be practical translation exercises (from home and in class) of various texts on different areas of

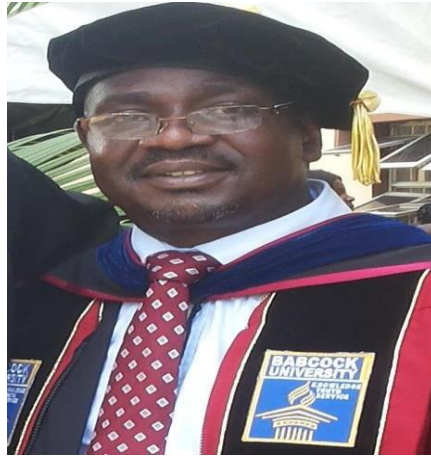
“human experiences and activities. Bilingual texts will be studied in class in order to identify issues relating to bad and good translation, use of appropriate words and good grammar.

**FREN 490: RESEARCH PROJECT (LONG ESSAY) 6 Credits**

Students are guided through the process of researching and writing an extended essay of 6,000 to 8,000 words on a topic chosen in consultation with the supervisor who shall be a member of the department. The course provides the students with the techniques of data collection, keeping such data for eventual use and referencing etc.



## DEPARTMENT OF MUSIC AND CREATIVE ARTS



**Olusegun B. OJUOLA, PhD**  
*Head of Department*

### ACADEMIC STAFF

Michael Olutayo OLATUNJI, PhD  
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Dorcas A. ODUNAIKE, PhD  
  
Dennis Amicable AMARACHI, MA

- Adjunct Professor of Music
- Visiting Professor of Music
- Professor of Music
- Adjunct Lecturer in Music
- Lecturer I in Music
- Adjunct Lecturer in Music
- Senior Engineer, Audio Production
- Studio Engineer
- Musical Instruments Technologist
- Adjunct Lecturer in Law  
(Copyright and Intellectual Property)
- Technical Officer

### VISION STATEMENT

Quality Christian education that promotes academic excellence in music combined with highest standard of moral conduct, professional conduct and personal integrity.

### MISSION STATEMENT

The department of music is committed to preparing leaders in academic and professional careers in music, music production and management, and musical instrument technology by providing a vibrant musical learning environment that fosters an artistic and creative growth; develops new interpretive meaning for music production and management and an integrated approach to experiencing highly diversified music that challenges mental, social, and spiritual growth of the students.

## **GOALS AND OBJECTIVES**

The program is designed to

- a. Develop potential and creative genius of students in musical performance, music technology and production and management.
- b. Create opportunities for music scholarship and professionalism.
- c. Develop proficiency in the theory of music and performance techniques on the instruments.
- d. Cultivate modern/contemporary art and niche in music production and management.
- e. Develop good aesthetic value judgment in the use and appreciation of production output and management.
- f. Provide basic manpower for managing people, project and self.
- g. Provide opportunity for the study of music in its universal dimensions.
- h. Promote a responsible use of musical talents for service to God and humanity.

## **BACHELOR OF ARTS (MUSIC)**

This is a broad-based undergraduate major that combines the study of theory, composition, performance, technology, production and management. The core of the program consists of the study of theory of music, music technology, music production and management with associated laboratories that provide further training in the musicianship skills necessary for all musical endeavor and performance.

## **DURATION OF PROGRAM**

The program will run for four years of eight semesters. It has duration of four years for students admitted with the Ordinary Level Certificate and three years for those with Advanced Level Certificate.

## **ADMISSION REQUIREMENTS**

Candidates for admission into the Bachelor of Arts program should have:

- i. 5 credits 'O' levels or its equivalence which must include English language (a credit or pass in music and mathematics is an advantage).
- ii. Diploma certificate or NCE in Music with 5 credits 'o' levels or its equivalence which must include English. (Applicable to direct entry students).
- ii. Required grade in UTME and pass Babcock University screening exercise examination.

## **GENERAL REQUIREMENTS**

1. Student must have major (Primary) instrument and minor (secondary) instrument (Piano is compulsory as minor for voice major and organ major).
2. Student offering melodic instrument (wind instrument) must have personal instrument.
3. Student must participate in an ensemble each semester.
4. Student must perform in the university band.

## **MINIMUM REQUIREMENT FOR GRADUATION**

The program is designed for a four-year period consisting eight semesters. Each semester consists of 17 weeks of formal teaching, labs, studio, workshop activities, projects, internship,

junior and senior recitals, and general assessments. The general requirements for graduation include the following:

- i. The completion of a minimum of 196 credits units including core, elective and general education courses.
- ii. All core (compulsory) courses must be taken and passed by the student before the degree can be awarded.
- iii. Elective courses will consist of a wide range of courses located within or outside the department from which students must select a given number, which they must pass before they can be awarded a degree.
- iv. Completed, reported and defended research project supervised by a staff project supervisor.

<b>LEVEL</b>	<b>GENERAL EDUCATION COURSES (GEDS)</b>	<b>DEPARTMENTAL CORE COURSES</b>	<b>ELECTIVE COURSES</b>	<b>TOTAL</b>
100	19	30	-	49
200	15	35	-	50
300	07	38	06	51
400	09	25	12	46
<b>TOTAL</b>	<b>50</b>	<b>128</b>	<b>18</b>	<b>196</b>

**NOTE:** Chapel seminars are compulsory each semester for citizenship.

**B. A. (Hons) MUSIC  
100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English 1	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in Global Culture	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
	<b>CORE COURSES</b>		
MUSC 103	Music as Art and Science	2	-
MUSC 105	Music Theory I	3	-
MUSC 106	Music Theory II	-	3
MUSC 111, 112	Ear Training Laboratory I, II	2	2
MUSC 127, 128	University Chorus/Orchestra I, II	2	2
MUSC 133, 134	Basic Piano I, II	2	2
MUSC 135, 136	Applied Music I, II	2	2
MUSC 145	An Outlined History of Western Music I (Medieval to Classical)	3	-
MUSC 146	An Outlined History of Western Music II (Romantic to 21 <sup>st</sup> Century)	-	3
	<b>TOTAL (49 Credits)</b>	<b>24</b>	<b>25</b>

**B. A. (Hons) MUSIC**  
**200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	<b>S/U</b>	<b>S/U</b>
GEDS 200	Communication in French	2	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
MUSC 201, 202	Music Theory III, IV	3	3
MUSC 213, 214	Keyboard Harmony I, II	2	2
MUSC 215, 216	Ear Training Laboratory III, IV	2	2
MUSC 223, 224	University Chorus/Orchestra III, IV	2	2
MUSC 231	Computer Application in Music	3	-
MUSC 232	Recording Studio Management	-	3
MUSC 233, 238	Applied Music III, IV	2	2
MUSC 235, 236	Instruments Maintenance Workshop I, II	2	2
MUSC 244	African Music I	-	3
	<b>TOTAL (50 Credits)</b>	<b>25</b>	<b>25</b>

**B. A. (Hons) MUSIC**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	-	2
	<b>CORE COURSES</b>		
MUSC 301	Music Theory V	3	-
MUSC 302	Tonal Counterpoint	-	3
MUSC 306	Forms and Analysis of Western Music	-	3
MUSC 311	Workshop on African Instrumental Ensembles	3	-
MUSC 322	African Compositional Technique	-	3
MUSC325, 326	Applied Music V, VI	2	2
MUSC 331	Ethics of Musical Practice	3	-
MUSC 335, 336	University Chorus/Orchestra V, VI	2	2
MUSC 343	African Music II	3	-
MUSC 344	Research Methods in Music	-	3
MUSC 345, 346	Choral Conducting I, II	2	2
MUSC 349	Orchestration	2	-
	<b>*ELECTIVE COURSES</b>		
MUSC 315, 316	Digital Music Workshop I, II	3	3
MUSC 341, 342	Musical Instruments Technology I, II	S 3	3
MUSC 348	Composition	-	3
MUSC 351	Analytical Studies of Tonal Music	3	-
	<b>TOTAL (51 Credits)</b>	<b>26</b>	<b>25</b>

**\*Students are expected to register for one elective course per semester.**

**B. A. (Hons) MUSIC**  
**(THEORY AND COMPOSITION OPTION)**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 280	Leadership Skills	-	2
GEDS 400	Introduction to Entrepreneurial skills	-	2
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional life	3	-
	<b>CORE COURSES</b>		
MUSC 401	Music Criticism and Scholarship	3	-
MUSC 403	Music Pedagogy	3	-
MUSC 415, 416	University Chorus/Orchestra VII, VIII	2	2
MUSC 421	Music of other World Cultures	3	-
MUSC 422	Nigerian Contemporary Music	-	3
MUSC 423	20 <sup>th</sup> Century Compositional Techniques	3	-
MUSC 425	Principles of Christian Music	3	-
MUSC 444	Advanced Orchestration	-	3
MUSC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
MUSC 424	Historiography of Music	-	3
MUSC 431	Record Label Operations/AR	3	-
MUSC 434	Movie Soundtrack Production	-	3
MUSC 435, 436	Music Video Production I, II	3	3
MUSC 443	Analysis and Analytic Method for 20 <sup>th</sup> Century Music	3	-
	<b>TOTAL (46 Credits)</b>	<b>23</b>	<b>23</b>

**\*Students are expected to register for one elective course per semester.**

**B. A. (Hons) MUSIC**  
**(AUDIO PRODUCTION AND MANAGEMENT OPTION)**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	<b>0</b>	<b>0</b>
GEDS 400	Introduction to Entrepreneurial skills	-	2
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
MUSC 401	Music Criticism and Scholarship	3	-
MUSC 403	Music Pedagogy	3	-
MUSC 415, 416	University Chorus/Orchestra VII, VIII	2	2
MUSC 417, 418	Advanced Digital Recording Technology I, II	3	3
MUSC 421	Music of other World Cultures	3	-
MUSC 422	Nigerian Contemporary Music	-	3
MUSC 425	Principles of Christian Music	3	-
MUSC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
MUSC 431	Record Label Operations/AR	3	-
MUSC 434	Movie Soundtrack Production	-	3
MUSC 435, 436	Music Video Production I, II	3	3
	<b>TOTAL (44 Credits)</b>	<b>23</b>	<b>21</b>

**\*Students are expected to register for one elective course per semester.**



**B. A. (Hons) MUSIC**  
**(MUSICAL INSTRUMENTS TECHNOLOGY OPTION)**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	-	2
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
MUSC 401	Music Criticism and Scholarship	3	-
MUSC 403	Music Pedagogy	3	-
MUSC 415, 416	University Chorus/Orchestra VII, VIII	2	2
MUSC 421	Music of other World Cultures	3	-
MUSC 422	Nigerian Contemporary Music	-	3
MUSC 425	Principles of Christian Music	3	-
MUSC 441, 442	Advanced Musical Instruments Technology I, II	3	3
MUSC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
MUSC 423	20 <sup>th</sup> Century Compositional Techniques	3	-
MUSC 424	Historiography of Music	-	3
MUSC 431	Record Label Operations/AR	3	-
MUSC 434	Movie Soundtrack Production	-	3
MUSC 435, 436	Music Video Production I, II	3	3
	<b>TOTAL (44 Credits)</b>	<b>23</b>	<b>21</b>

**\*Students are expected to register for one elective course per semester.**

**B. A. (Hons) MUSIC  
COURSE DESCRIPTIONS**

**MUSC 103:                    MUSIC AS ART AND SCIENCE                    2 Credits**

An inquiry into Music as God given humanistic expression. The creative genius of man through the ages and in various races and cultures employing the elemental tools of rhythm, melody, harmony and tone color. A non-specialized inquiry into the scientific properties of musical sound (such as frequency and intensity) and their psychological counterparts (such as pitch and volume) and an elementary discussion of musical acoustics.

**MUSC 105:                    MUSIC THEORY I                    3 Credits**

This course deals with the fundamentals of notation such as scales, key signatures, meter signatures, rhythms, dynamics terms and signs etc. Introduction to melodic and harmonic intervals, major and minor triads and their inversions, principles of chord progression using triads in root position. It communicates God's love through the distinctive tone colors.

**MUSC 106:                    MUSIC THEORY II                    3 Credits**

Structural and formal analysis of melody. Writing of specified melodic examples and anacrusis rhythm. Elementary diatonic harmony in 2, 3 and 4-parts including the chords of the Dominant 7<sup>th</sup> and use of six-four chords (cadential and passing). It communicates God's love through the distinctive tone colors.

**MUSC 111:                    EAR TRAINING LABORATORY I                    2 Credits**

This course develops the ability to pitch notes accurately through aural dictations, sing in time and show a keen sense of rhythm. It also develops good listening, sight singing and the knowledge of timbre in orchestral instruments.

**MUSC 112:                    EAR TRAINING LABORATORY II                    2 Credits**

Continuation of practical exercises on developing the ability to pitch notes accurately through aural dictations, sing in time and show a keen sense of rhythm. It also develops good listening, sight singing and the knowledge of timbre in orchestral instruments.

**MUSC 127:                    UNIVERSITY CHORUS/ORCHESTRA I                    2 Credits**

The course provides exposure to performing in a mixed voice chorus of works by African and Western composers. Students are also exposed to playing in concert with other instruments. It provides opportunity for the development of improvisatory skills and building of repertoire of music and improving sight playing and singing.

**MUSC 128:                    UNIVERSITY CHORUS/ORCHESTRA II                    2 Credits**

The course provides exposure to performing in a mixed voice chorus of works by African and Western composers. Students are also exposed to playing in concert with other instruments. It provides opportunity for the development of improvisatory skills and building of repertoire of music and improving sight playing and singing.

**MUSC 133:                      BASIC PIANO I                      2 Credits**

An introduction to the rudiments of piano playing, knowledge of the operation of the piano. Development of sight-reading skills and appreciation of God as the giver of artistic talents.

**MUSC 134:                      BASIC PIANO II                      2 Credits**

Continuation from MUSC 133 including the introduction of chord drills and harmonization of melodies in four voice harmony, technical exercises on scales and arpeggios and introduction to simple piano repertory.

**MUSC 135:      APPLIED MUSIC I (INSTRUMENT / VOICE)                      2 Credits**

Introduction to the rudiments and performance techniques on instruments of choice (primary and secondary). The operation of the mechanism and their manipulation. Sight singing and sight playing skills development through laboratory exercises. It communicates God's beauty through the distinctive tone colors.

**MUSC 136:      APPLIED MUSIC II (INSTRUMENT / VOICE)                      2 Credits**

Continuation of the performance rubric and techniques on instruments of choice (primary and secondary). The operation of the mechanism and their manipulation. Sight singing and sight playing skills development through laboratory exercises. It communicates God's beauty through the distinctive tone colors.

**MUSC 145: AN OUTLINED HISTORY OF WESTERN MUSIC I (MEDIEVAL TO CLASSICAL)                      3 Credits**

A developmental history of western music from the medieval period to the Classical. A survey of Baroque and Classical music with emphasis on musical styles/forms i.e. masses, keyboard music, madrigal, polyphony, homophony, oratorio, suites, choral works, concerto grosso, concerto, chamber music, sonata, symphony etc. study of works by composers, development of musical instruments and significance of early musical forms in the development of later forms.

**MUSC 146: AN OUTLINED HISTORY OF WESTERN MUSIC II (ROMANTIC TO 21<sup>ST</sup> CENTURY)                      3 Credits**

History of Western Music from the Romantic period to Post-Romantic. Survey of forms and styles such as symphonic poem, art songs, program music, music drama, twentieth century avant-garde, serialism, electronic music, Jazz, rock, pop, Gospel, spirituals etc. New compositional and analytical procedures. Relationship of Music to socio-cultural background of each period and survey of life and works of representative composers in historical context and their influence on Western contemporary musical tradition.

**MUSC 201:                      MUSIC THEORY III                      3 Credits**

Practice in homophonic writing, employing an increased harmonic vocabulary including 7<sup>th</sup>, 9<sup>th</sup>, 11<sup>th</sup>, and 13<sup>th</sup> chords, suspensions and modulation. It communicates God's love through the distinctive tone colors.

**MUSC 202: MUSIC THEORY IV****3 Credits**

Analysis of harmonic characteristics. Cadence formulas, Soprano harmonization, figured bass realization, harmonization using all diatonic triads and sevenths e.g dominant 7<sup>th</sup>, diminished 7<sup>th</sup> etc. Two-part writing: the art of writing another melody above or below a given melody. A simple contrapuntal writing in imitative and non-imitative forms. It reveals God as the centre of cosmic harmony.

**MUSC 213: KEYBOARD HARMONY I****2 Credits**

An appreciation of God as the giver of artistic talents. Development of keyboard skills, ability to play chord progressions, harmonize, modulate, transpose, and improvise on simple melodies, and realize figured bass at the keyboard.

**MUSC 214: KEYBOARD HARMONY II****2 Credits**

An appreciation of God as the giver of artistic talents. Continuation on the development of keyboard skills, ability to play chord progressions, harmonize, modulate, transpose, and improvise on simple melodies, and realize figured bass at the keyboard.

**MUSC 215: EAR TRAINING LABORATORY III****2 Credits**

Practical exercises on developing good listening, sight singing and the knowledge of timbre in orchestral instruments. Pitching of notes in both regular and irregular rhythm, hemiola and complex African rhythms.

**MUSC 216: EAR TRAINING LABORATORY IV****2 Credits**

Continuation of the practical exercises in developing good listening, sight singing and the knowledge of timbre in orchestral instruments. Pitching of notes in both regular and irregular rhythm, hemiola and complex African rhythms.

**MUSC 223: UNIVERSITY CHORUS/ORCHESTRA III****2 Credits**

The course provides exposure to performing in a mixed voice chorus of works by African and Western composers. Students are also exposed to playing in concert with other instruments. It provides opportunity for the development of improvisatory skills and building of repertoire of music and improving sight playing and singing.

**MUSC 224: UNIVERSITY CHORUS/ORCHESTRA IV****2 Credits**

The course provides exposure to performing in a mixed voice chorus of works by African and Western composers. Students are also exposed to playing in concert with other instruments. It provides opportunity for the development of improvisatory skills and building of repertoire of music and improving sight playing and singing.

**MUSC 231: COMPUTER APPLICATION IN MUSIC****3 Credits**

The course familiarizes students with the basics of computer operating systems. Music engraving in Finale and basic MIDI sequencing. Converting the computer keyboard into music keyboard. General knowledge and use of music recording software.

**MUSC 232: RECORDING STUDIO MANAGEMENT 3 Credits**

The course teaches how to manage studio, select and purchase studio equipments and maintenance, setting up, and how to use analog and digital recording consoles, pro-tools, workstations, microphones and outboard gear. The students learn how to share database over the network, schedule sessions, use studio diary, communicate between stations using studio messenger and control database using advance administration application. It teaches show to use modern audio recording studio management software and sound engineering in both hardware and software operations for both digital and analog studios.

**MUSC 233: APPLIED MUSIC III (INSTRUMENT / VOICE) 2 Credits**

This is a proficiency developing course on the primary/secondary instruments of student's choice. It builds interpretive ability of student and the performance skills on the instruments.

**MUSC 235: INSTRUMENTS MAINTENANCE WORKSHOP I 2 Credits**

A study of the physical properties of musical instruments and introduction to the care and maintenance of the commonly used instruments including the tuning technique of the acoustic piano.

**MUSC 236: INSTRUMENTS MAINTENANCE WORKSHOP II 2 Credits**

Continuation of the study of the physical properties of musical instruments and introduction to the care and maintenance of the commonly used instruments including the tuning technique of the acoustic piano.

**MUSC 238: APPLIED MUSIC IV (INSTRUMENT / VOICE) 2 Credits**

Continuation of the proficiency developing course on the primary/secondary instruments of student's choice. It builds interpretive ability of student and the performance skills on the instruments.

**MUSC 244: AFRICAN MUSIC I 3 Credits**

A survey of the role and function of Music among the peoples of Africa, and appreciation of God's love and creative genius through the musical diversities in African cultures. A study of forms of traditional music in society, and the taxonomic system for classification of African musical instruments. African musical instruments and performance techniques. Geographical areas under study include: Central Africa, East Africa, and West Africa. Musical examples will be played and discussed in class.

**MUSC 301: MUSIC THEORY V 3 Credits**

Analysis of advanced harmony characteristics. Use of Secondary dominants, secondary diminished, Neapolitan augmented sixth and other chromatic chords. Introduction to 20<sup>th</sup> century composition techniques. The course introduces students to a variety of compositional issues and styles, chromaticism, and 20<sup>th</sup> century techniques. Students will write short and long pieces of various musical styles. It reveals God as the centre of cosmic harmony.

**MUSC 302: TONAL COUNTERPOINT****3 Credits**

Studies in Polyphonic writings and analysis of basic types of texture, 2-parts harmonic contrapuntal writing, imitative counterpoint, fugal treatment of the Baroque and classical centuries styles. It communicates God's love through the distinctive tone colors.

**MUSC 306: FORMS AND ANALYSIS OF WESTERN MUSIC****3 Credits**

An appreciation of God as the giver of artistic talents. Description and analysis of simple forms e.g binary, ternary and rondo into their various motivic components and structures.

**MUSC 315: DIGITAL MUSIC WORKSHOP I****3 Credits**

A practical class that exposes students to advanced studio recordings, development and manipulation of electronically generated sounds, and production equipments.

**MUSC 316: DIGITAL MUSIC WORKSHOP II****3 Credits**

Continuation of the practical class in to advanced studio recordings, production equipments, sampling, plug-ins, and their applications.

**MUSC 311: WORKSHOP ON AFRICAN INSTRUMENTAL ENSEMBLES 3 Credits**

The course is designed to develop basic skills in the performance and playing techniques on African instruments. It also explores the skillful combination of these instruments with their Western counterparts. Traditional and/or choreographed dances may be incorporated.

**MUSC 322: AFRICAN COMPOSITIONAL TECHNIQUES****3 Credits**

Studies in African art music composition techniques, parallelism, pentatonism, heptatonism, hocket technique, overlapping, symmetrical and asymmetrical hemiola etc. Analysis of instrumental and vocal scores. It communicates God's love through the distinctive tone colors.

**MUSC 325: APPLIED MUSIC V (INSTRUMENT / VOICE)****2 Credits**

Individual and ensemble preparation for performance of a full recital of significant representative repertory appropriate to the instrument or voice of the student. Students are expected to demonstrate command of stylistic, technical and expressive aspects of the chosen music. An appreciation of God as the giver of artistic talents.

**MUSC 326: APPLIED MUSIC VI (INSTRUMENT / VOICE)****2 Credits**

Continuation of the individual and ensemble preparation for performance of a full recital of significant representative repertory appropriate to the instrument or voice of the student. Students are expected to demonstrate command of stylistic, technical and expressive aspects of the chosen music. The performances will be assessed by the departmental board.

**MUSC 331: ETHICS OF MUSICAL PRACTICE****3 Credits**

The course provides an ethical framework for professionals and music practitioners through appreciation of God's law as the highest standard of moral conduct. It highlights their responsibilities to the public, clients, colleagues, employers, managers and professional association by maintaining the highest standard of moral conduct, professional conduct and personal integrity. It also provides the understanding of copyrights and related rights and laws

including the individual rights of the artiste, consequences of infringement on copyright laws, use of copyright symbols, exclusive rights of the holder of a copyright, fair use and fair dealings, copyright transfer agreement and licensing, duration of the term of copyright and the international conventions and treaties on copyrights.

**MUSC 335: UNIVERSITY CHORUS/ORCHESTRA V 2 Credits**

The course provides exposure to performing in a mixed voice chorus of works by African and Western composers. Students are also exposed to playing in concert with other instruments. It provides opportunity for the development of improvisatory skills and building of repertoire of music and improving sight playing and singing.

**MUSC 336: UNIVERSITY CHORUS/ORCHESTRA VI 2 Credits**

The course provides exposure to performing in a mixed voice chorus of works by African and Western composers. Students are also exposed to playing in concert with other instruments. It provides opportunity for the development of improvisatory skills and building of repertoire of music and improving sight playing and singing.

**MUSC 341: MUSICAL INSTRUMENTS TECHNOLOGY I 3 Credits**

A practical course that introduces students to the arts and science of constructing and building musical instruments. The concept and design, tools, materials, storage and maintenance, actual design and building of original instruments will be realized. It reveals God as the giver of artistic talents.

**MUSC 342: MUSICAL INSTRUMENTS TECHNOLOGY II 3 Credits**

Continuation of the practical course on the arts and science of constructing and building musical instruments. The concepts and designs, tools, materials, storage and maintenance, actual design and building of original instruments. It reveals God as the giver of artistic talents.

**MUSC 343: AFRICAN MUSIC II 3 Credits**

Theoretical models and approaches to the study of African music and the musical cultures, traditions and history of African societies. Description and analysis of forms and styles in African music with particular reference to specific Nigerian ethnic cultures. Problems of notation and transcriptions will be highlighted.

**MUSC 344: RESEARCH METHODS IN MUSIC 3 Credits**

The study of general methods of research application in the Arts and Humanities with emphasis on Music methods such as Field Works, Documentation, Analysis and Presentation of Data in relevant areas in Musicology, Composition, Technology Performance and Music Education.

**MUSC 345: CHORAL CONDUCTING I 2 Credits**

The course prepares students for careers as professional conductors in a variety of contexts including educational, civic, and church. Students will learn choral works; manual and baton techniques, and the analysis and preparation of vocal scores for rehearsals and performance. There will be choral and orchestral videos analysis sessions.

**MUSC 346: CHORAL CONDUCTING II 2 Credits**

Continuation course in choral conducting. Choral repertory and training of choirs will take place. There will be training in elementary phonetic and vocal techniques for the choir director. Study of conducting techniques including facial expression, breathing, alignment and gesture. Arranging of songs for different kinds of vocal combination- female voices, male voices, and mixed voices will be taught.

**MUSC 348: COMPOSITION 3 Credits**

Musical creativity and techniques of composition for voices and instruments is the centre of this course. Analysis of orchestral scores and technical projects in the art of writing for instruments and for a group of instruments, from chamber groups of various sizes to full orchestra. Study of the design and layout of the orchestra, rules for instrumental parts. An appreciation of God as the giver of artistic talents.

**MUSC 349: ORCHESTRATION 2 Credits**

This is a study of instrumentation with an examination of the possibilities and limitations of the commonly used western orchestral instruments. Conventions of notation, scoring and arranging for various ensembles, small and large.

**MUSC 351: ANALYTICAL STUDIES OF TONAL MUSIC 3 Credits**

The course through selected works will examine the action interaction of harmonic progression, rhythm, metre, motive, and line in a defining and articulating tonal structures. An overview of various methods of musical analysis, with specific reference to the works of Tovey and Schenker is pertinent here.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

This course examines the Biblical principles for Music, and how music can be utilized as a key component in Christian witness, service and worship. It represents a crowning achievement emerging from the aggregate experiences of individual student during the course of study.

**MUSC 401: MUSIC CRITICISM AND SCHOLARSHIP 3 Credits**

The course explores the connection between analyzing a composition and performing it. It examines how performance practice, basic structural analysis, and historical context affect interpretation. Historical and analytical approaches to the study of selected musical masterpieces, problems of musical aesthetics, contemporary approaches to musical meaning in which interdisciplinary connections are emphasized. The course will also require students to undertake a project by attending, observing and analyzing live performances and assessing the quality of the music to ascertain whether or not it possesses both aesthetics and commercial potentials and submit written reports on them.

**MUSC 403: MUSIC PEDAGOGY 3 Credits**

This course reveals God as the master teacher. It is also designed for prospective teaching experience with particular attention to current developments in methods and techniques of teaching music and the use of ICT as teaching aids. It helps to improve the quality of teaching



and learning, develop basic skills in writing examination items and objectiveness in assessment of student's performance and developing student's potential in music and ensuring continuity in school music. The course provides for a practical teaching demonstration exercise and building standards of expertise by maintaining their professional abilities in their fields of teaching and performing. Emphasis will be placed on methods of teaching music in the primary, secondary and teacher training institutions.

**MUSC 415: UNIVERSITY CHORUS/ORCHESTRA VII 2 Credits**

The course provides exposure to performing in a mixed voice chorus of works by African and Western composers. Students are also exposed to playing in concert with other instruments. It provides opportunity for the development of improvisatory skills and building of repertoire of music and improving sight playing and singing.

**MUSC 416: UNIVERSITY CHORUS/ORCHESTRA VIII 2 Credits**

The course provides exposure to performing in a mixed voice chorus of works by African and Western composers. Students are also exposed to playing in concert with other instruments. It provides opportunity for the development of improvisatory skills and building of repertoire of music and improving sight playing and singing.

**MUSC 417: ADVANCED DIGITAL RECORDING TECHNOLOGY I 3 Credits**

An advanced practical course with emphasis on software synthesis, sound design, studio recording and management.

**MUSC 418: ADVANCED DIGITAL RECORDING TECHNOLOGY II 3 Credits**

Continuation of the advanced practical audio production class in software synthesis, sound design, studio recording and management.

**MUSC 421: MUSIC OF OTHER WORLD CULTURES 3 Credits**

A survey of the musical traditions of India, Japan, China and Javanese. Emphasis will be on the artistic elements, musical genres, themes, forms and styles. There will also be an hour of laboratory in this course for listening appreciation.

**MUSC 422: NIGERIAN CONTEMPORARY MUSIC 3 Credits**

A survey of the development of contemporary music in Nigeria through the process of acculturation, highlighting the resultant hybrids of musical genres. The various typologies and their characteristics, composers / musicians and their works will be studied. Course requires an hour of laboratory workshop.

**MUSC 423: 20<sup>TH</sup> CENTURY COMPOSITIONAL TECHNIQUES 3 Credits**

This course is a survey of the various processes of musical composition in the present era such as atonality, serialism, 12-tone, chance, electronic and computer techniques among others. Examination of some works of composer, representative of these forms and styles will be carried out. It communicates God as the giver of artistic compositional talents.

**MUSC 424: HISTRIOGRAPHY OF MUSIC 3 Credits**

This course is a study of the development, systems, and techniques of making and documenting the history of music.

**MUSC 425: PRINCIPLES OF CHRISTIAN MUSIC 3 Credits**

The course outlines the historical development of church music from the biblical origin to the modern contemporary period and a comparative analysis of music in the worship of different religious denominations, especially the orthodox and the Pentecostal. It defines the Seventh-Day Adventist concept of Church Music. It seeks to build an effective music ministry.

**MUSC 431: RECORD LABEL OPERATIONS/AR 3 Credits**

This is another name for company or corporation that owns a recording business. The course is designed to provide expertise in record label operations which includes developing strategies for recording, packaging, distributing and promoting the recorded medium, marketing, album cover designs, posters and advertising. It includes the AR (Artiste Repertoire) an important department that is responsible for finding new talents, acquiring materials for the artiste to record and arranging recording schedules of artistes, musicians and producer. It also interfaces with the label artiste and handles communication between the artiste and other label departments. It handle auditioning of bands, setting up studio time and finds producer for artiste. The business end of the signed artiste relationship with the label is also handled by the AR in conjunction with the label's legal and financial department.

**MUSC 434: MOVIE SOUNDTRACK PRODUCTION 3 Credits**

The course is design to teach students on how to compose and create first class music and sound design for moving images, how to translate music from film to make sense in a music only format, creating music cues for motion pictures: films, TV, videogames, dance, theatre, commercials, etc

**MUSC 435: MUSIC VIDEO PRODUCTION I 3 Credits**

The course teaches how to plan production, create storyboard/ overview and shot list, shoot videos, transfer video to computer, import still images/ graphics, editing video by selecting clips, adding titles and transitions, adding voiceover, music and location sound and exporting finished project video for web, DVD etc Operating rules of video production like, rules of thirds etc The course also requires students to carry out group recording projects which form part of the final assessment.

**MUSC 436: MUSIC VIDEO PRODUCTION II 3 Credits**

Continuation of the practical course on how to plan production, create storyboard/ overview and shot list, shoot videos, transfer video to computer, import still images/ graphics, editing video by selecting clips, adding titles and transitions, adding voiceover, music and location sound and exporting finished project video for web, DVD etc Operating rules of video production like, rules of thirds etc.

**MUSC 441: ADVANCED MUSICAL INSTRUMENTS TECHNOLOGY I 3 Credits**

This is the advanced study of the arts and science of constructing and building musical instruments. The concept and design, tools, materials, storage and maintenance, actual design and building of original instruments will be realized. Students will be required to carry out construction projects of musical instruments under the supervision of the instructor. It reveals God as the giver of artistic talents.

**MUSC 442: ADVANCED MUSICAL INSTRUMENTS TECHNOLOGY II    3 Credits**

Continuation of the advanced study of the arts and science of constructing and building musical instruments. The concept and design, tools, materials, storage and maintenance, actual design and building of original instruments will be realized. It reveals God as the giver of artistic talents.

**MUSC 443: ANALYSIS AND ANALYTIC METHOD FOR 20<sup>TH</sup> CENTURY MUSIC**  
**3 Credits**

The course is an examination of some contemporary tools of analysis for post-tonal music, including the set complex theory, and the application of computer techniques for the analysis of music in general.

**MUSC 444: ADVANCED ORCHESTRATION** **3 Credits**

This is a study of instrumentation with an examination of the possibilities and limitations of the commonly used Western orchestral instruments. It explores conventions of notation, scoring and arranging for various ensembles, small and large.

**MUSC 490: RESEARCH PROJECT 6 Credit**

Each student is expected to select a topic of interest in music theory, composition, performance, production or management under the supervision of an appointed project supervisor. Students will be subjected to both seminar and oral/performance examination on the project undertaken

## DEPARTMENT OF RELIGIOUS STUDIES



***Ikechi C. EKPENDU, Ph.D***  
***Head of Department***

### ***ACADEMIC STAFF***

Efe M. EHIIOGHAE, PhD	- Professor of Christian Theology and Ethics
Philemon O. AMANZE, PhD	- Professor of Comparative Religion and Church Ministry
Adelowo F. ADETUNJI, PhD	- Professor of Comparative Religion, Religion and Society
Michael O. AKPA, PhD	- Professor of New Testament Studies and Youth Ministry
Joseph A. OLANREWAJU, PhD	- Professor of Systematic and Contextual Theology
*Afolarin O. OJEWOLE, PhD	- Professor of Old Testament Studies and Christian Ministry
Rowland C. NWOSU, DMiss	- Associate Professor of Mission Studies and Christian Ministry
*Israel B. OLAORE, PhD	- Associate Professor of Christian Ministry and Religious Education
Ayuba G. MAVALLA, PhD	- Associate Professor of Conflict Management
Ikechi C. EKPENDU, PhD	- Senior Lecturer, New Testament Studies
Theodore U. DICKSON, PhD	- Senior Lecturer, Old Testament Studies, Family and

## Youth Studies

Joshua J. ZOAKA, DMin	- Lecturer I, Mission Studies and Christian Ministry
Evans N. NWAOMAH, DMin	- Lecturer I, Christian Ministry (Marriage and Family)
Isaiah O. ABOLARIN, PhD	- Lecturer I, Religious Education/Advanced Research & Applied Statistics
**Ucheawaji G. JOSIAH, PhD.	- Lecturer I, Old Testament Studies/Religion and Society
James A. O. BABALOLA, PhD.	- Lecturer I, Church History and Gender Issues
Gabriel MASFA, PhD	- Lecturer II, Church History
Harriet O. IKHANE, MA	- Assistant Lecturer, Missions/Old Testament Studies
Abel O. AKINPELU, MA	- Assistant Lecturer, New Testament Studies
Opeyemi OLADOSUN, MA	- Assistant Lecturer, Old Testament Studies
Makpa E. CHARLES, BA	- Graduate Assistant

## ADJUNCT STAFF

Sunday D. AUDU, PhD.	- Adjunct Associate Professor, Church History, Conflict, Peace and Environmental Studies
Ademola S. TAYO, PhD	- Adjunct Professor of Development Education
James A. OGUNJI, PhD	- Adjunct Professor of Religious Education
Emmanuel O. EREGARE, PhD	- Adjunct Lecturer, Church History
Olusegun OJUOLA, PhD	- Adjunct Lecturer, Christian Music
Rufus G. Nwagbara, MA	- Adjunct Lecturer, Philosophy of Religion
Oyeleke A. OWOLABI, PhD	- Visiting Lecturer, Mission Studies, Leadership and Publishing Ministry
Bassey UDOH, PhD	- Visiting Lecturer, Ethics and Leadership

## ADMINISTRATIVE STAFF

\*On leave of absence

## **PHILOSOPHY**

Training and modeling servant-leaders, equipped to be agents of spiritual and social transformation for the church and the larger society.

## **MISSION STATEMENT**

The mission of the Department is to provide, through training and mentoring, biblical and theological education, anchored on the saving knowledge of Jesus Christ, with a view to meet the needs of the church, to reengineer the ethical and religious orientation of the larger community and to redemptively impact politics, economy and social responsibilities in order to have a better society in the here and the hereafter.

## **OBJECTIVES**

The objectives of the Department of Religious Studies are to:

1. Expose the ministers-in-training to an in-depth knowledge of the Bible by providing them with essential tools for biblical hermeneutics that emphasize humanity's salvation through Jesus Christ;
2. Prepare ministerial leaders for the Seventh-day Adventist Church and other willing interests in the propagation of the everlasting gospel and the soon return of our Lord and Savior Jesus Christ to redeem the world;
3. Prepare religious and moral educators to reinforce lost moral values in the family, schools and wider society in collaboration with the departments of Education and General Studies as well as the School of Post-Graduate Studies;
4. Train servant-leaders who will exact a transforming influence in the society, particularly in politics, economy and social engagements.
5. To prepare leaders who will serve as models of probity, moral and ethical uprightness in order to address, in a Christlike manner, the spiritual, social and economic ills in the church and society

## **DEPARTMENTAL PROGRAMS**

The Department of Religious Studies offers the following academic programs:

- Bachelor of Arts (B.A. Hons.) Christian Religious Studies ( 4 years) *fully accredited by NUC*
- Bachelor of Arts (B.A. Hons.) Religious Studies (4 years ).

## **ADMISSION REQUIREMENTS**

1. Candidates seeking admission into the Undergraduate programs of the Department of Religious Studies must, in line with requirements from relevant accrediting bodies, possess at least five (5) "O" Level credits or its equivalent (including English Language) in at most two sittings. A credit pass in Christian Religious Knowledge is a desirable advantage.
2. Applicants desirous to enter the gospel ministry upon completion of a program must clearly demonstrate evidence of such a calling in personal decorum and attitude. Positive recommendations from the appropriate Church organization would be an added advantage.

## DEPARTMENTAL REQUIREMENTS FOR GRADUATION

### CREDIT LOAD FOR B.A. (HONS.) CHRISTIAN RELIGIOUS STUDIES

Responsibility for meeting degree requirements rests upon the student. Each student is expected to be aware of the various requirements as published in the undergraduate academic *Bulletin* under which the student plans to graduate. The Departmental undergraduate academic *Bulletin* in force at the time of initial registration is the binding document between the student and the university.

The program is planned over a 4-year period consisting of 8 semesters. Students are expected to have taken a total number of **190 credits** for Christian Religious Studies program before they can be considered eligible for graduation. But in the case of direct entry students the 100 level courses are waived.

Level	GEDS Courses	Departmental Courses	Total
100	20	24	44
200	15	36	51
300	7	42	49
400	5	41	46
<b>Sub-Total</b>	<b>47</b>	<b>143</b>	<b>190</b>

**BACHELOR OF ARTS (B. A. Hons.) CHRISTIAN RELIGIOUS STUDIES**  
**100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 131, 132	Communication in English I, II	2	2
GEDS 134	Nigeria People in a Global Culture	-	2
MCOM 101	Introduction to Mass Communication	3	-
	<b>CORE COURSES</b>		
CRLS 101	Introduction to History of Bible Lands and Archaeology	3	-
CRLS 103	Introduction to the Pentateuch	3	-
CRLS 113	Introduction to Sociology of Religion	2	-
CRLS 114	Personal Faith Formation and Spirituality	-	2
CRLS 116	Fundamentals of Children and Youth Ministry	-	2
CRLS 118	History of the Christian Church: Apostolic Era to the Dawn of the Reformation Period	-	2
CRLS 105	Beginning Greek I	3	-
CRLS 106	Beginning Greek II	-	3
CRLS 108	African Traditional Religions I	-	2
CRLS 110	Personal Christian Witnessing	-	2
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

*100 Level Students are required to do an active observation in their various chapels of worship and write session reports which will be part of their evaluation for CRLS 110 – Personal Christian Witnessing and CRLS 114: Personal Faith Formation and Spirituality*



## BACHELOR OF ARTS (B. A. Hons.) CHRISTIAN RELIGIOUS STUDIES

### 200 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	2	-
GEDS 204	Logic and Critical Thinking	-	2
GEDS 290	Spreadsheet and Digital Presentations		2
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environment and Sustainable Development	-	2
ENGL 211	Introduction to Phonetics and Phonology	3	-
ENGL 228	Introduction to English Grammar and Syntax	-	2
	<b>CORE COURSES</b>		
CRLS 201	Historical and Poetic Books of the Old Testament	3	-
CRLS 202	Theology of the Four Gospels	-	3
CRLS 203	Intermediate Greek I	3	-
CRLS 204	Intermediate Greek II	-	3
CRLS 205	Christian Ethics	3	-
CRLS 206	Philosophy of Religion	-	2
CRLS 209	African Traditional Religions II	2	-
CRLS 213	Islam I	2	-
CRLS 214	World Religions	-	3
CRLS 216	Studies in Prophetic Gifts and Ministry	-	2
CRLS 217	Introduction to Pastoral Counseling	2	-
CRLS 224	History of the Christian Church: The Reformation Period to the Modern Christian Church	-	2
CRLS 226	Introduction to Chaplaincy Ministry	-	2
MUSC 207	Introduction to Principles and Theories of Christian Music	2	-
MUSC 208	Music Practicum	-	2
	<b>TOTAL (51 Credits)</b>	<b>24</b>	<b>27</b>

*200 Level Students are required to participate in a minimum of 21 Hours Certification Program in Literature Ministry organized by the Department in partnership with the WAD Publishing Department, with a Compulsory Summer Canvassing, as prerequisite for CRLS 320: The Arts and Science of Homiletics.*

**BACHELOR OF ARTS (B. A. Hons.) CHRISTIAN RELIGIOUS STUDIES**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	-	2
GEDS 270	Peace and Conflict Resolution	-	2
COSC 339	Project Management and Community Development	3	-
	<b>CORE COURSES</b>		
CRLS 301	Studies in Biblical Apocalyptic Literature I: Daniel	3	-
CRLS 302	Studies in Biblical Apocalyptic Literature II: Revelation	-	3
CRLS 303	Biblical Hebrew I	3	-
CRLS 304	Biblical Hebrew II	-	3
CRLS 309	Systematic Theology I	3	-
CRLS 310	Systematic Theology II	-	3
CRLS 316	Public Evangelism and Media/ICT in Christian Ministry	-	3
CRLS 317	Islam II	2	-
CRLS 319	Introduction to Mission Studies	3	-
CRLS 323	Family Life and Conflict Resolution	3	-
CRLS 326	History of Christianity in Nigeria	-	2
CRLS 328	Biblical Hermeneutics and Exegesis	-	3
CRLS 329	Children and Youth Ministries	2	-
CRLS 338	The Art and Science of Homiletics	-	3
RELG 399	Research Methodology	3	-
	<b>TOTAL (49 Credits)</b>	<b>25</b>	<b>24</b>

*300 Level Students are required to do an active participation as Assistant Pastors and Chaplains in their various chapels of worship. They are also to be actively involved in the yearly public campus evangelism as well as any public evangelistic effort in neighboring communities and to write a report on them which will be part of their evaluation for CRLS 316 – Public Evangelism and Media/ICT in Christian Ministry.*

**SPECIAL NOTE:** *Besides students' interface with churches in Babcock University neighborhood during the academic session, a field Pastoral Practicum (internship) of three months will be required of students who are preparing for Christian ministry in the Seventh-day Adventist Church at the completion of 300 level courses. The practicum/internship will be done under supervision in the fields and a written appraisal report must be submitted. This practicum counts towards the completion of CRLS 407: Introduction to Pastoral Ministry & Church Leadership.*

**BACHELOR OF ARTS (B. A. Hons.) CHRISTIAN RELIGIOUS STUDIES**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principles in Personal and Spiritual Life	3	-
GEDS 440	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
CRLS 401	Prophetic Books of the Old Testament I	3	-
CRLS 402	Prophetic Books of the Old Testament II	-	3
CRLS 403	Acts and Early Pauline Epistles	3	-
CRLS 404	Later Pauline and General Epistles	-	3
CRLS 405	Introduction to Old Testament Theology	3	-
CRLS 406	Introduction to New Testament Theology	-	3
CRLS 407	Introduction to Pastoral Ministry and Church Leadership	3	-
CRLS 409	Ministerial Practicum	2	-
CRLS 410	Introduction to Religion and Science	2	-
CRLS 424	Ecumenism and Religious Dialogue	-	2
CRLS 433	History of SDA Church: Beginning to Arrival in Africa	2	-
CRLS 414	History of SDA Church in Nigeria (1914 to Date)	-	2
CRLS 422	Contemporary Issues in Theology	-	3
CRLS 418	Introduction to Mission Planning and Strategies	-	2
ACCT 427	Principles of Church Finance and Book Keeping	2	-
RELG 490	Research Project	-	6
	<b>TOTAL (51 Credits)</b>	<b>25</b>	<b>26</b>

*400 Level Students are required to play active leadership roles in their various chapels of worship and write a semester report which will be part of their evaluation for CRLS 407 – Introduction to Pastoral Ministry and Church Leadership*

## **BACHELOR OF ARTS (B. A. Hons.) CHRISTIAN RELIGIOUS STUDIES COURSE DESCRIPTIONS**

### **CRLS 101: INTRODUCTION TO HISTORY OF ISRAEL AND ARCHAEOLOGY**

**3 Credits**

This course is a survey of the archaeological, cultural, geographical and historical backgrounds of the Bible lands, with special emphasis on the Hebrew patriarchs, the Exodus-conquest events and the times of Jesus Christ. It also highlights the contributions of archaeological discoveries to the study and understanding of the Bible. This course, being introductory in nature, surveys the archaeological, cultural, geographical and historical backgrounds of the Bible lands, with special emphasis on the Hebrew patriarchs, the Exodus-conquest events and the times of Jesus Christ. It also highlights the contributions of archaeological discoveries to the study and understanding of the Bible. It discusses the contributions which archaeological discoveries have made toward authenticating the Bible accounts and toward a better understanding of the Bible. Further, the course identifies the major places mentioned in the Bible and discusses briefly, the events that took place on the identified places mentioned in the Bible. The students are made to understand the trustworthiness of the word of God.

### **CRLS 103: INTRODUCTION TO THE PENTATEUCH**

**3 Credits**

A survey of the Pentateuch, issues surrounding its sources and authorship are diligently considered. Emphasis is put on historical events that trace God's plan of salvation for humanity. Modern biblical criticism derives in large part from early attempts to resolve the apparent compositional and structural anomalies and discrepancies found in the Mosaic Pentateuch or 'Five Books of Moses'; i.e., the 'five books' of Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. There will be a sampling of the diverse genres of literature contained within the Torah, in order to seek out and study the alleged anomalies and discrepancies with a view to identifying the underlying harmony of the Pentateuch. The course necessitates a survey of the entire Torah, with the primary emphasis laid upon acquiring a nuanced understanding of the meaning of the constituent texts and their contents within their historical, social, and literary contexts. The course underscores the integrity of the Torah and its relevance to modern scholars and believers alike.

### **CRLS 105: BEGINNING GREEK I**

**3 Credits**

A course designed to expose the students to the elements of the grammar of the *Koine* "common" Greek of the New Testament. Specifically, it focuses on the learning of the Greek alphabet, rules of Greek accent, conjugation, declension, vocabulary, tenses, moods, etc. *This course is equivalent to Greek Grammar in other academic systems.*

### **CRLS 106: BEGINNING GREEK II**

**3 Credits**

A course designed to expose the students to the elements of the grammar of the *Koine* "common" Greek of the NT, including vocabulary, translation, and selected reading from the First Epistle of John and the Gospel of John. *This course is equivalent to Greek Grammar in other academic systems.* Prerequisite: CRLS 105: Beginning Greek I.

### **CRLS 108: AFRICAN TRADITIONAL RELIGIONS 1**

**2 Credits**

The course introduces the student to the general African worldviews on the physical and spiritual realms; belief in a Supreme Being, divinities, spirits and ancestors; the origin and nature of humanity; the religious significance of "passage". This course also examines the practices and concepts of salvation in African

Traditional religion. Attention is given to exploring ways of bridging the gap between African Traditional Religion and Christianity. In addition, the course is designed to help students have a sound knowledge of African Traditional Religion which will prove useful in knowing what is taking place in the religious world around them based on the revealed word of God. Finally, the course will help the student to establish a common ground and a meeting point to share the gospel of Christ.

#### **CRLS 110: PERSONAL CHRISTIAN WITNESSING 2 Credits**

Personal evangelism is a course designed to prepare a person to teach the gospel one-on-one or in small, private groups. Students will learn about a wide variety of materials and approaches to private study, about various ways to find prospects, and about ways to design a personal evangelism program in a local congregation. Much of the course is designed to prepare students to deal with various doctrinal questions that arise when discussing the Bible with others. Since some of these questions are controversial, the teacher presents the view he believes most in harmony with scripture and expects students to be able to explain that view, trusting God that the effort will not be fruitless. Acquaintance with the dynamics of Christian witnessing in the neighborhood, at work and in the friend-to-friend approach of personal Bible study will be fostered. Christ's example of witnessing is the focus of this course. Weekly field practicum is required.

#### **CRLS 113: INTRODUCTION TO THE SOCIOLOGY OF RELIGION 2 Credits**

This course seeks to introduce undergraduate students to the nature and functions of religious beliefs and institutions in modern societies. It is a course designed to familiarize the new-comer with the scientific study of the relationship between religion and the human society. Highpoints include sociological methods and analysis, measures of religiosity, sociological theories of religion, religious crisis, the preservation of religions, and mutual influence of religious faiths. Student participant observation of religious worship other than that of one's denomination is expected. This is with a view to establishing the beneficial role religion, specifically, Christianity plays in the society.

#### **CRLS 114: PERSONAL FAITH FORMATION AND SPIRITUALITY 2 Credits**

The course focuses on the Biblical perspective on the act and the life of faith. How does a person begin and nurture a spiritual and devotional life? How can a Christian leader develop, nurture and maintain a spiritual life? The course also evaluates the role of spiritual nurture in various settings. Christian Spiritual Formation is a faithful and lifelong journey of renewing our mind and soul into the image of Christ, maturing and growing our identity as God's people, and participating in God's redemptive work in this world as God's community serving others. This course identifies how God utilizes Scripture, people, contexts, literature, spiritual disciplines, and events to transform believers into the image of Christ. It offers resources to students who seek to grow in the practices of Christian disciplines.

#### **CRLS 116: FUNDAMENTALS OF CHILDREN AND YOUTH MINISTRY 2 Credits**

The course seeks to expose the student to the dynamics of children and youth ministry. It is an effort to equip those who wish to work as youth pastors, youth directors, secondary school Bible teachers, or in any other youth-training capacity with the skills and orientations that are necessary for successful ministry in those areas. It also exposes the student to the knowledge and understanding of the Philosophy, Psychology and Ideology of teens, adolescence and young adults. The course examines current crisis and challenges faced by young people in the 21 century and how the church can be of help. It also investigates the different age groups and ministries in the youth Ministries with the aim of leading the children and youth to Christ and to impact them with the necessary skills for leadership.

**CRLS 118: HISTORY OF THE CHRISTIAN CHURCH: APOSTOLIC ERA TO THE  
DAWN OF REFORMATION PERIOD 2 Credits**

The course is a survey of the history of the Christian Church from the apostolic times to the eve of the Reformation. Early Christianity began from the day of Pentecost and gradually grew apart from Judaism during the first two centuries and established itself as a predominantly gentile religion in the Roman Empire. The course highlights the contributions of the early Church Fathers in the development of the administration and doctrines of the church. The church's experience with persecution and eventual acceptance as the state religion in the empire led to the gradual emergence of the Roman Catholic Church. The course also discusses developments and events in the church like the rise of monasticism, the ecumenical councils, heretical sects, and the crusades. The course underscores God's overarching leadership and interventions in the history of the Christian church.

**CRLS 201: HISTORICAL AND POETIC BOOKS OF THE OLD TESTAMENT 3 Credits**

This course, being introductory in nature, surveys the *Kethubim* which consist of the historical and poetic books of the Hebrew OT. It adopts a combination of historical, contextual, and thematic approach to the study of these books of the OT focusing on their contribution to the Jewish Religious life and the salvation theme to humankind. Special attention is given to establishing the involvement of God and His Sovereignty as is demonstrated in the second division of the OT books. This is intended to strengthen the faith of the student in God as Ruler in the affairs of humanity and the Director of human history, from Creation to Recreation. Strong emphasis is placed on the connection between the books of the Pentateuch and the rest of the Hebrew Writings or Hagiographa, tracing how the people of Israel lived in the land of Canaan in peace or in distress in relation to their obedience or disobedience to the covenantal stipulations in Deut 28:1-68. Further, it explores the nature, types and characteristics of Hebrew Poetry and basic rules for its interpretation. This will help the students appreciate the literary genres thereby facilitating meaningful judgments as they approach the Poetic Books.

**CRLS 202: THEOLOGY OF THE FOUR GOSPELS 3 Credits**

This course is a study of the major theological themes of the Gospels such as salvation, forgiveness, judgment, faith, etc as revealed in the teachings of Jesus Christ, the central figure and focus of the Gospels. The course also exposes the student to issues concerning how to interpret the Gospels, and provide an historical and theological survey of each of the four Gospels, culminating with discussion of how these four Gospels witness to the one Jesus.

**CRLS 203, 204: INTERMEDIATE GREEK I AND II 3, 3 Credits**

Intermediate Greek courses are designed to expose the students to extensive reading and translation of selected passages from the Greek New Testament. Going beyond basic Greek grammar, these courses place emphasis on advanced grammar and syntax of the *Koine* Greek of the NT. However, such rudimentary issues as vocabulary acquisition, parsing of verbal constructs, identification and analysis of syntactical constructions are carried along in the effort to translate selected passages in preparation for appropriate interpretation of the Greek NT. An understanding of the Bible in its original language is an excellent and powerful tool for teaching and preaching. The courses (*Greek Reading* in some academic systems) are taken in two successive semesters. *Prerequisite: CRLS 106 – Beginning Greek II (Greek Grammar).*

**CRLS 205: CHRISTIAN ETHICS 3 Credits**

This course examines what makes human conduct right or wrong, first from the perspective of certain philosophers, then from the perspective of Judeo-Christian thought. Application is then made to current social issues such as truth-telling, capital punishment, euthanasia, abortion, marriage, divorce etc. In a

pluralistic society where subjective individualism results in every person defining morality on their terms, it needs to be evaluated whether objective moral truth exists. This course will study the objective moral truth of the Christian ethic and examine how it differs from the subjective value systems of the atheist, moralist, humanist and evolutionist. Most importantly, through the examination of the Christian ethic, the student will ideally come to see that this study is not simply an academic study of values and truths; this type of life is God's desire for us. Ultimately, Christian ethics is a way of life.

### **CRLS 206: PHILOSOPHY OF RELIGION      2 Credits**

Philosophy of Religion is a study of the basic concepts of religion from a philosophical perspective. The course also examines the main thinkers (Plato, Socrates, Aristotle) and schools of thought from the antiquity to the present and their influence on biblical theology and the Christian faith. It examines philosophical theology, and is the philosophical study of religious assertions, arguments, and beliefs: the existence and nature of God; the relation of faith to reason; the problem of evil; immortality and resurrection; the possibility of miracles; religion and morality, religion and gender, and free will and determinism. Attention is also given to such major questions as religious experience and human relation to the natural world, etc. The student is made to know that excellence in any branch of human endeavor cannot be cultivated without a right philosophical worldview which is anchored on the word of God.

### **MUSC 207/208: INTRODUCTION TO PRINCIPLES AND THEORIES OF CHRISTIAN MUSIC, AND MUSIC PRACTICUM      2/2 Credits**

A course designed to introduce students to the principles and theories of Christian and sacred music with emphasis on the Seventh-day Adventist concept of church music. It outlines the historical development of church music from the Biblical origin to the modern contemporary period, highlighting musical forms, styles, composers, performers and the general characteristics of Christian music. It defines the Seventh-day Adventist church worldview on music and its use for worship. The second part of the course focuses on the acquisition of practical skills of music such as reading of musical notes and the initial ability to play a chosen musical instrument by the student.

### **CRLS 209: AFRICAN TRADITIONAL RELIGIONS II      2 Credits**

This course is a continuation of African Traditional Religion I. However, it places emphasis on identifying the aspects of ATR worldview that seem adverse to Christianity, the manner in which they impact Christianity and possible ways Christians can relate to them. The theology students who are being prepared for the gospel ministry will have the African continent as their primary field of evangelism. They would need this course as they encounter fellow Africans who have imbibed various beliefs and practices. Thus the course will focus on issues such as belief in God; belief in divinities, spirits, ancestors, magic and medicines. It will also investigate the themes of African cosmogonies, rites of passage, witchcraft and sorcery as well as the concept of salvation in African Traditional Religion. This is to prepare the student for a Christ-centered interface with the ATR worldview.

### **CRLS 213: ISLAM I      2 Credits**

The course is an overview of the origin, major philosophical and theological underpinnings of Islam, it deals with the typical aspects of worship and ethics, and major social, cultural and political influences of Islam. The course examines Islam through the use of the history, scriptures, and the Islamic traditions; it focuses on the beliefs, practices and missions of Islam. It also presents students with the knowledge about the land, the people, and the culture of the Arabians who are the primary recipients of Islam. The course acquaints the students with the personal, religious and social life of Mohammed, the prophet of Islam and introduces the religion as one of the major world religions. It studies its impact on the socio-political life of Nigeria. It

helps students (especially Christian students) to develop the skill to understand Islam more objectively and to a large extent help to free students from common personal and religious biases against people of other religions, especially Islam. Eschewing biases helps to create a platform of understanding and a better approach to reaching other people of differing faiths.

#### **CRLS 214: WORLD RELIGIONS**

**2 Credits**

This course is designed as an introduction to a group of religions that have had a worldwide impact on the lives of human beings and continue to do so today. We call these “World Religions.” Our main goal will be to understand how these religious movements orient themselves in the world with respect to history, belief, and practice. To accomplish these goals, we will consider God and Goddess-concepts, sacred places, rituals, community, architecture and artifacts. The course exposes students to selected beliefs and practices of the major great religions of the world: starting with Hinduism, Buddhism, Confucianism, Taoism, Sikhism, Zoroastrianism, Jainism, Judaism, and some Modern Religions such as the Eckankar, Grail Message, AMORC, etc. Attention is given to a comparison of the basic tenets, practices, texts, concept of salvation and other major theological, historical, and missiological concepts of each of the traditions. It presents each of the traditions in a critical, but sympathetic light against the background that “in times of ignorance God overlooks” (Acts 17:30). It shows the effect of each of the traditions on the socio-cultural as well as the political life of the societies they dominate. The course shows that it is possible to be a follower of one religious tradition and still learn from the beliefs and practices of other traditions. With the basic understanding of the various world religions, the course seeks to lay the foundation for global peace and promote inter-religious harmony, particularly as forged on the anvil of biblical teachings. Research paper required.

#### **CRLS 216: STUDIES IN PROPHETIC GIFTS AND MINISTRY 2 Credits**

The course surveys the biblical teachings on the gift of prophecy, its functions, contemporary relevance. This entails the role of the Holy Spirit and the Bible in prophecy. In addition, the course explains the Biblical foundation for the Gift of Prophecy as well as evaluates the persons who claim to have the gift of prophecy. Special emphasis is given to the ministry of Ellen G. White against the background of Old and New Testament prophets with a view of building confidence in God’s last day prophet. The course also focuses on the Seventh-day Adventist understanding of the prophetic ministry of Ellen G. White. It exposes students to the possible ways of studying, interpreting, applying and presenting the writings of Ellen G. White in this modern age. References are made to how her prophetic ministry has helped in shaping the development, theology, mission and ministry of the Seventh-day Adventist Church.

#### **CRLS 217: INTRODUCTION PASTORAL COUNSELING 2 Credits**

Pastoral care and counselling is the art of ministry as it relates to the psychological and theological needs of persons and faith communities. This course will consider both theories of pastoral care and specific interventions for predictable human needs including death, illness, trauma, birth, marriage, divorce, life passage celebrations, etc. In addition to basic pastoral care and brief counselling for individuals, couples, families and communities, the course considers the ethical context of pastoral care, the healing functions of ritual, and theological responses to the question of theodicy: “Why do bad things happen to good people?” Course participants will be asked to draw on their own experience in ministry and in life to role play pastoral care dialogues and to study specific cases. There will be the need to balance the rich data contained in the “here and now” of pastoral interactions with the frameworks of faith, ethics and theological reflection that inform our pastoral service. Special focus is also given to the pastor’s own need for care in relation to the varied demands of care giving. If the student leaves this class with an enhanced ability to be attentive and



curious about your own experience and that of others, it would have fulfilled the primary objective of the course.

### **CRLS 224: HISTORY OF THE CHRISTIAN CHURCH: THE REFORMATION TO THE MODERN CHURCH 2 Credits**

The Christian Church in the Middle Ages was in a great measure controlled by a universal church, the Roman Catholic Church. This course presents the history of the Christian Church in that era and highlights the forces that shaped events which eventually led to the Protestant Reformation that swept through Germany, Switzerland and England. This course also considers the factors that gave rise to the Counter Reformation and eventually the Thirty Years War of 1618-1648 that defined the religious map of Europe. Mention is also made of the founding and expansion of Christian missions and the establishment of Christianity in America, including the revivals of the Great Awakening. Trust in God, persistence, revival and reformation and salvific service to humanity are some of key elements in the study of the sweep of historical events that marked this period to the modern era of the Christian church.

### **CRLS 301: STUDIES IN BIBLICAL APOCALYPTIC LITERATURE I: DANIEL 3 Credits**

The book of Daniel is the first in the series of major *apocalyptic* writings in the Bible that focus on the Great Controversy between Christ and Satan, which is cosmic in nature, with planet earth as the arena. Special attention is given to the characteristics and general principles of biblical apocalyptic literature as well as the interpretation of the apocalyptic imagery and symbols contained in this *special book*, bearing in mind the original setting in which the narratives of the vision and dreams took place, as well as appropriate and effective application to life. Utilizing the historicist approach, the exegetical study of the book of Daniel traces the history of the Great Controversy, culminating in the triumph of Jesus Christ over all forces of evil at the Second Coming. The course is designed to build trust in the Word of God, particularly the prophecies, as they relate to end-time events.

### **CRLS 302: STUDIES BIBLICAL APOCALYPTIC LITERATURE II: REVELATION 3 Credits**

The book of Revelation is the second in the series of major *apocalyptic* writings in the Bible that focus on the Great Controversy between Christ and Satan, which is cosmic in nature, with planet earth as the arena. Special attention is given to the interpretation of the apocalyptic imagery and symbols contained in this *special book*, bearing in mind the original setting in which the narratives of the vision and dreams took place, as well as appropriate and effective application to life. Against the backdrop of its historical and eschatological dimensions, the exegetical study of the book of Revelation traces the history of the Great Controversy, especially in respect to God's final judgment on all agencies of evil, culminating in the triumph of Jesus Christ at the Second Coming. The students are made to appreciate Jesus as the central figure in the plan of salvation. *Prerequisite: CRLS 301: Studies in Biblical Apocalyptic Literature I: Daniel*

### **CRLS: 303: BIBLICAL HEBREW I 3 Credits**

This course is designed to introduce and guide the students to acquire skills in the essential Elements of biblical Hebrew grammar and syntax. Specifically, it focuses on the learning of the Hebrew alphabet, rules of accents, conjugation, declension, vocabulary, forms of tenses, moods, etc. The aim is to provide the student with a practical study tool as expositors and exegetes of the Word.

### **CRLS 304: BIBLICAL HEBREW II 3 Credits**

Biblical Hebrew II is a further study of the principles of Hebrew grammar, the expansion of vocabulary skills, development of reading ability and translation from the narrative portions of the Hebrew Bible. The

course provides the students with the requisite skill to study the Bible in the original language which enhances their competency in handling the Word. *Prerequisite: CRLS 303: Biblical Hebrew I.*

### **CRLS 309, 310: SYSTEMATIC THEOLOGY I AND II 3, 3 Credits**

To be taken in two successive semesters, Systematic Theology is a discipline, using the Bible as the final authority, which means the study of God as it is relevant to the past, present, and future of man. Invariably, since everything in our world has a link to God, directly or indirectly, becomes a theological issue. Systematic theology addresses the theological one by one; in order words, presenting the major themes (doctrines) of the Christian faith in an organized and orderly manner while remaining faithful to the biblical witness. In Systematic Theology I and II the following are examined: Prolegomena – the study of methods and proposition for doing Systematic Theology, meaning, nature and purpose of theology; Means of God's Revelation; Bibliology – the study of the Bible; Theology proper – the study of the doctrine of God; Anthropology – the study of humanity; Soteriology – the study of Salvation (Atonement); Ecclesiology – the study of the church; Doctrine of the Sabbath; Eschatology – the study of last days events.

### **CRLS 316: PUBLIC EVANGELISM AND MEDIA/ICT IN CHRISTIAN MINISTRY 3 Credits**

The course introduces students who are preparing for ministry to the principles, practices and procedures of public evangelistic outreach. It takes students through basic evangelistic concepts, including pre-outreach preparations, planning and execution. This includes the revival of the local hosting congregation, team selection and individual/group task assignments, site selection and preparation, message selection and delivery, campaign finance and publicity, follow up strategies and impact assessment. The course further introduces the student to the importance and usage of media and Information and Communication Technology in communicating religious values to the contemporary human society. A demonstration of acquired skills by the student is required. Practical Workshop/Field Laboratory is compulsory. *Prerequisites: CRLS 110: Personal Christian Witnessing and CRLS 311/312: Homiletics I & II.*

### **CRLS 317: ISLAM II 2 Credits**

The course focuses on the theological beliefs and practices in Islam. Hence, it examines the Articles of Faith namely: Belief in Allah, Belief in Angels, Belief in the Revealed Books, Beliefs in Prophets, Belief in Resurrection and Judgment and Belief in Predestination. This is followed by the five pillars of Islam, their practice and role in the lives of the Muslim faithful. The five pillars are: i) The *Shahada* (The Statement of Faith); ii) *Salat* (Daily prayers); iii) *Zakat* (Obligatory Alms); iv) *Sawm* (The Ramadan Fast); and v) *Hajj* (Pilgrimage to the Holy land). These are the visible demonstration of the beliefs in Islam as they challenge a Muslim to dedicate his/her time, means, status, and etc in honour of Allah.

The course identifies the main darikas, such as the Sunnis, Shiites etc, in West Africa, together with their main teachings. It also discusses Islamic groups in modern Nigeria and their revivalist inclinations. Approaches and methodology of reaching out to Muslims with the Christian beliefs and values by identifying possible common grounds as spring board are also considered.

### **CRLS 319: INTRODUCTION TO MISSION STUDIES 3 Credits**

The course provides a broad introduction to Christian missions including the major aspects of mission studies such as the biblical theological foundations of mission, and intercultural perspectives of mission services. It introduces students to major concepts in mission studies, including major dimensions of mission studies: the Word (message), the world and its people (anthropology), church: past and present (ecclesiology), methods and strategies for mission (Methodology). It also deals with an analytical study of mission and evangelism

as well as the survey of the contemporary state of Christian mission; basic relationships of Christian mission in relation to other faith systems. The course presents Christian mission as a part of God's ministry of reconciliations and seeks to create in students, mission awareness, mission thinking, and consciousness.

### **CRLS 323: FAMILY LIFE AND CONFLICT RESOLUTION**

**3 Credits**

Families, in our societies today, are in deep dilemma from all sides - physically, politically, morally, and spiritually. And the more troubling is the decay of morals in our homes, schools, and Churches. This course, introduction to family life and conflict resolution, is designed to equip in-ministry students on the dynamics of the family system as they blend pastoral duties and social responsibilities. The course would also introduce students to contemporary research and creative ways of identifying early warnings signs and how to mitigate violent conflicts amongst families, and the wider community.

### **CRLS 326: HISTORY OF CHRISTIANITY IN NIGERIA**

**2 Credits**

The course is a survey of the history of Christianity in Nigeria. It briefly considers the development of Christianity from the advent of the Northern African Church in the ancient era, to the growth of the church in West Africa sub-region in the contemporary era. It also highlights the contact West Africa had with the Portuguese explorers and the brand of Christianity they introduced in the 1400s. The role of the abolition of the slave trade, the establishment of Sierra Leone, and the missionary efforts of the protestants in bringing Christianity to Nigeria is explained. The course examines the growth and development of Christianity across Nigeria, looking at the birth of Christianity in Western, Eastern and the Northern part of Nigeria. It highlights the challenges and prospects for the 21<sup>st</sup> Century

### **CRLS 328: BIBLICAL HERMENEUTICS AND EXEGESIS**

**3 Credits**

The process through which an interpreter brings out the original meaning of a Bible text and makes it speak to the contemporary time is called exegesis or hermeneutics. Bearing in mind the rigorous and complex processes involved in exegesis and hermeneutics, this course, being introductory in scope, is designed to survey the methods of preservation and transmission of ancient manuscripts of the Bible as well as the various methods proposed for biblical interpretation. Emphases are placed on exposing the students to the historical-grammatical method of exegesis as well as equip them with the steps and tools that are necessary for undertaking a sound exegesis of especially perceived "difficult" passages in the OT and NT.

### **CRLS 329: CHILDREN AND YOUTH MINISTRIES**

**2 Credits**

The course examines current crisis and challenges faced by young people in the 21 century and how the church can be of help. It also investigates the different age groups and ministries in the youth Ministries with the aim of leading the children and youth to Christ and to impact them with the necessary skills for leadership.

### **CRLS 338: THE ART AND SCIENCE OF HOMILETICS**

**3 Credits**

The course lays foundation for biblical sermon construction and delivery and addresses the crucial nature of expository preaching, stressing proper principles of interpreting and applying the text to practical life. Demonstration of skills in classroom and field preaching is further required of the students. It also emphasizes the importance and relevance of powerful, skillfully handled, Christ-centered sermons in fostering the gospel ministry of a preacher, and the spiritual growth of hearers. A major focus of the course is the crucial and critical role that Spirit-driven and impressionable sermons play in the spiritual growth of hearers.

### **RELG 399: RESEARCH METHODOLOGY**

**2 Credits**

The course Research Methodology is primarily designed to expose students to the general principles and methods of researching and research writing. This entails exposing the students to the basic procedures for carrying out research at the university level. Even though the scope of the course is broad, emphasis will be placed on research topics and themes tailored to meet the specific needs of under-graduate students engaged in religious and theological studies. The course will assist students in appreciating the unique role research plays in the search for knowledge. It exposes the students to various types of research writing with particular emphasis on biblical, theological and missiological research methods. It equips the student with necessary skills needed to undertake research both at the undergraduate and beyond. It creates in the student the desire to engage in research on a continuous basis in order to fill knowledge gaps identified in the area of research. It prepares the students methods and dynamics of doing research in the contemporary scholarly world. A research proposal that may be developed into a long essay in the following session is required.

### **CRLS 401: PROPHETIC BOOKS OF THE OLD TESTAMENT I      3 Credits**

This course is a scriptural survey of the history of prophecy in Israel, with special emphasis on pre-exilic prophetic figures such as Obadiah, Joel, Amos, Hosea, etc. It is also a survey of the history of the prophetic figures and the books of the writing prophets of the eighth and early seventh century B.C. It highlights the different prophetic parsonages in the Old Testament and discusses the relevance of the messages of the Old Testament Prophets and as well, situates the relevance of those messages of the Old Testament Prophets in contemporary African context.

### **CRLS 402: PROPHETIC BOOKS OF THE OLD TESTAMENT II 3 Credits**

A scriptural survey of the history of prophecy with special emphasis on seventh and sixth centuries as well as Exilic and Post-Exilic prophetic figures such as Zephaniah, Ezekiel, Haggai, etc. The course highlights the developing theological emergency of the times. It discusses the relevance of the messages of the seventh and sixth centuries as well as the Exilic and Post-Exilic prophetic figures of the Old Testament. It further exposes the historical and contextual relevance of the messages of these prophets in contemporary times. It also situates the relevance of the messages of these Prophets in contemporary African times.

### **CRLS 403: ACTS AND EARLY PAULINE EPISTLES      3 Credits**

The first in a two-part course, it identifies and explains the various cultural, socio-political and religious environments that shaped the thought of the Apostles, their work and teachings. The course also analyzes the moral, religious, social and theological problems the Early Church leaders and writers of the Acts and Epistles addressed in their letters and relate these to contemporary situations. It also provides insights into certain themes in this body of inspired literature. A brief introduction to the principles of New Testament interpretation is followed by a thematic study of Acts and the early Pauline Epistles. These themes include the NT Canon; The Acts as a Historical and Theological Documents; Jerusalem Council and Paul Missionary Journeys; The Man Paul and the Epistles. A research paper may be required.

### **CRLS 404: LATER PAULINE AND GENERAL EPISTLES 3 Credits**

The course, Later Pauline and General Epistles is the second of a two-part series of studies in the Pauline corpus. With the missionary journeys and activities of Paul and his associates as presented in the book of Acts of the Apostles and New Testament backgrounds as the backdrop, this course is designed to undertake thematic studies of the theological content of the later Pauline Epistles (specifically from Romans to the Pastoral Epistles). This is followed by an introduction to and thematic studies of Hebrews and the General Epistles. A research paper may be required. Prerequisite: *CRLS 403: Acts and Early Pauline Epistles*.

### **CRLS 405: INTRODUCTION TO OLD TESTAMENT THEOLOGY 3 credits**

This course is designed to provide the student with a general introduction to the historical, sociological, and religious world in which the Old Testament was produced; the basic shape and content of the Old Testament; the concept of “Canon” and its relevance for the understanding of the Old Testament ; the ways in which the Christian community has sought to appropriate the Old Testament in its life and teaching; the discipline of Old Testament theology; the major theological emphases of the Old Testament; and the various forms of response to which the Old Testament calls the people of God in the context of the divine-human relationship. Further, the contemporary relevance of these responses for the Christian life, especially as they relate to ethics, and character/spiritual formation. As this course deals with matters of fundamental importance for the understanding of the Old Testament, the focus of the course will be on the objective understanding and mastery of these foundational matters. Put another way, this course is highly content - oriented and designed with the primary goal of providing the student with a strong cognitive base for the use of the Old Testament in study, preaching and teaching.

#### **CRLS 406: INTRODUCTION TO NEW TESTAMENT THEOLOGY 3 Credits**

The course introduces the student into New Testament theology. A study of the developments of selected theological concepts in the NT is given attention; the arching vision of God's mission in the world and how human beings are called to respond. Each book will be placed in its cultural and historical setting as we focus on its distinctive contribution to the New Testament. Along the way students will be introduced to critical methods for studying the New Testament and will reflect on how we can integrate scholarly perspectives with a conviction that the New Testament is the word of God.

#### **CRLS 407: INTRODUCTION TO PASTORAL MINISTRY & CHURCH LEADERSHIP 3 Credits**

A study of the concept of the pastoral ministry, calling and function, the course identifies the primary functions of the minister in such areas as worship, pastoral care, pastoral leadership, and soul winning are considered. The principles and strategies for developing an effective scripture-based leadership style, the role of the pastor as a church leader and administrator, multi-church district leader, denominational polity, administrative structure of the church on all levels, and the relationship of the local church and the community are also considered. This course also examines the roles, functions and theological considerations for the practice of pastoral ministry. Ministry identity, call, and foundational pastoral tasks will be discussed. The course in Pastoral Ministry is ideally taken by students who are nearing the end of their program it takes into consideration all the studies in exegesis, theology, history, ethics, education, counselling, preaching and polity and then challenges students to consider how their studies actually are applied in practical ministry.

#### **CRLS 409: MINISTERIAL PRACTICUM 2 Credits**

A practical introduction to the duties of pastoral ministry this course provides instruction in the principles of public prayer, Sabbath School discussion groups and Action Unit leadership; the interpretative reading of Scripture, platform decorum, witnessing, leadership, child care during worship hour, planning and conducting church meetings (Prayer meeting, Church Board and Business Meetings, etc.) and services (child dedication, baptism, wedding, funeral, Lord's supper), etc.

#### **CRLS 410: INTRODUCTION TO RELIGION AND SCIENCE 2 Credits**

The course is an introduction to the dialogue between science and religion. Basic definitions, philosophies, competences and limitations of science and religion are considered. Further, the legitimacy and challenge of science to religious beliefs is explored. For so many years religious, scientific, and philosophical ways of thinking have interacted in complex, varied, and sometimes conflictive ways. This course surveys a range of

issues, thinkers, and approaches to some of the most important ways in which religion and science interact. Finally, attempts to harmonize areas of seeming differences between science and biblical Christianity on issues like creation and evolution; the universe, chronology and human values, among others, are considered

**CRLS 414: HISTORY OF SDA CHURCH IN NIGERIA (1914 TO DATE) 2 Credits**

The course traces the background, rise and progress of the Seventh-day Adventist Church in Nigeria. Focus is also given to the contributions of the Church to the development of Nigeria.

**CRLS 418: INTRODUCTION TO MISSION PLANNING AND STRATEGIES 2 Credits**

The course, Introduction to Mission Planning and Strategies, attempts to provide answers to questions of what is planning, how should we plan for mission and ministry, develop strategies for carrying out the gospel commission, and presents mission and ministry students with tools for being strategic in planning for mission, mission implementation, and evaluation. The course provides focus on mission and planning, it goes into specifics of mission strategies, such as Strategies for reaching the unreached people groups, mission for targeted groups like secular people, restricted Muslim societies, urban mission and ministry, as well as the basics of pioneer church planting strategies. Generally, the course presents students with key steps in creation and implementation of mission strategies.

**CRLS 422: CONTEMPORARY ISSUES IN THEOLOGY 3 Credits**

This course examines new trends and phenomena in theological discourse, particularly as they relate to Africa. Special attention will be given to inculturation (contextual/Indigenization) theology, liberation theology, pentecostal theology (with emphasis on prosperity gospel), feminist theology, human sexuality theology among others. The inter-working between culture and the Bible and the importance of this in understanding the African theological realities will also be examined.

**CRLS 424: ECUMENISM AND RELIGIOUS DIALOGUE 3 Credits**

The course introduces students to the understanding of history, principles and practice of ecumenism and interdenominational dialogue, it examines the issues that led to the beginnings of Ecumenism, the ecumenism movements, their purpose and organization. It leads the students through the controversies that created divisions in the early church through to the continuity of this development into the 21st century. The course discusses interfaith dialogue and its effects on the world peace and the global faith structure and explores reasons why though Ecumenism started as a small assembly, it has grown into a large body comprising almost all churches or Christian traditions around the world irrespective of theological differences, and why the growth of ecumenical assemblies cuts across regional and international boundaries. It will examine past and present attempts to engage in ecumenism and the progress made so far. At the end of the course the student should be aware of how Ecumenism, intra-faith, and interfaith dialogue began, why they began, what has been achieved, the challenges and prospects, as well as the Seventh-day Adventist perspective on ecumenism.

**CRLS 433: HISTORY OF SDA CHURCH: BEGINNINGS TO ARRIVAL IN AFRICA 2 Credits**

The course explores the background, rise and progress of the Seventh-day Adventist denomination, its missionary activities and practices until its arrival in Africa.

**ACCT 427: PRINCIPLES OF CHURCH FINANCE AND BOOK KEEPING 2 Credits**

The course seeks to introduce the student to the elements of Bookkeeping and Accounting, with the ability to understand the recording, analysis and interpreting of transactions in the books of Original Entry, Double Entry System and Reconciliation of Bank Statement. It brings to the knowledge and understanding of the students the financial policies of SDA Church; sources of finances and fund administration. It enlightens the student on the essence of living within income (Personal Budget); it also acquaints the student with the principles of Church Budgeting and with the relevant policies guiding the practice. The course is designed to enable the Christian leader/pastor manage his personal and church finances appropriately. Finally, the course exposes the student/minister/ church worker to the knowledge of their entitlements such as remunerations, allowances, claims, etc.

**CRLS 490:**

**RESEARCH PROJECT**

**6 Credits**

The student's maturity in his/her field of study should be reflected in this course. Under the supervision of one or more departmental teaching staff, the student is expected to choose a research area of his/her interest within which a topic is decided upon with the assistance of the supervisor. The finished long essay must be presented in a departmentally approved format and/or forum. Prerequisite: RELG 399: Research Methodology.

## **SCHOOL OF LAW AND SECURITY STUDIES**



**Professor 'Deji Olanrewaju**  
*Dean*





**Mrs. A. Adetunji**  
*School Officer*



**DEPARTMENT OF PRIVATE AND COMMERCIAL LAW**

***Dorcas A. ODUNAIKE, PhD***  
***Head of Department***

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## DEPARTMENT OF JURISPRUDENCE AND PUBLIC LAW

**ACADEMIC**



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***Head of Department***

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**DEPARTMENT  
LAW AND  
STUDIES**



**OF  
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SECURITY**

*Titilayo ADERIBIGBE, PhD  
Head of Department*

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<b>Amarachi OKONKOH</b>	LL.B, B.L	Asst. Lecturer	Health Law

## **WELCOME TO THE BABCOCK UNIVERSITY SCHOOL OF LAW & SECURITY STUDIES**

Through our School, BU offers a focused, purposeful and moral formation and reformation of a new breed of legal practitioners and well-equipped security industry against a backdrop of general insecurity in a post-military civil society. These needs are glaring in every sphere of Nigerian public life civil, criminal, constitutional and economic matters. BU is an international university with affiliation with other universities across the globe under the supervision of the Seventh-day Adventist Church worldwide. We are a member of various reputable and focused academic and research bodies. Adapting the text of the famous quote by the world-renown educationist thinker, Ellen G. White, by substituting the word “lawyer” for “men”, the most adequate presentation of the rationale for a law programme at Babcock within the context of today's societal needs would be best summarized as follows:

*The greatest want of the world is the want of (lawyers) (Lawyers) who will not be bought or sold, (lawyers) who in their inmost souls are true and honest, (lawyers) who do not fear to call sin by its right name, (lawyers) whose conscience is as true to duty as the needle to the pole, (lawyers) who will stand for the right though the heavens fall. (Education, 57).*

### **VISION STATEMENT**

First class Seventh-day Adventist School of law, building lawyers equipped with security skill as servant-leaders for a better world.

### **MISSION STATEMENT**

To provide highly ethical Christian professional training (preventive, protective, investigative, and scientific) in all branches of the Legal profession and the security environment within which they operate.

### **PHILOSOPHY**

Law operates on facts of life while security prospers on the preventive and investigative capacity of society to predict and prevent security breaches to life and property. It also provides an intuitive and deductive follow-up investigation to any cases of security violation and crime before critical evidence is tampered with or deteriorate to a state of non-reliability or disappear. A study of law without a knowledge of underlying social factors will produce a knowledge of abstract or 'non-living law'. Consequently, the LL.B. degree programme contain not only law courses, but also such relevant non-law courses designed to produce a better understanding of the functions and functioning of law in society; especially in the economic and management disciplines as well as psychology, information technology, forensics and security. Even in respect of specific courses the contents must be enriched in the light of contemporary development in social problem and legal thoughts. Examples of such additional courses include Gender Law, Environmental Law, Press and Electronic Media Law and Intellectual Property Law, Planning Law, Petroleum and Energy Law and Comparative Religious Law. The aim is to produce law graduates who will be able to place legal ordering within the proper perspective of societal needs in the light of social, cultural, economic, political and technological advancement.

### **OBJECTIVES**

The main objective of the law programme is to educate students on the Nigerian law and the comparative approach to legal studies in light of biblical principles and many systems of law currently in operation namely Statutory Law, Common Law, Customary Law and Islamic Law. The specific objectives are:

- to equip the law graduate with wide knowledge of law and its importance in the society

- to produce first class faith based lawyers as servant leaders in the society

## **ADMISSION REQUIREMENTS**

### **LL.B (Hons)**

To be eligible for admission to the LL.B. degree programme, a candidate must possess the following minimum qualifications:

- (a) Five (5) Credits at not more than two sittings in five subjects including English Language, Mathematics, Literature in English and any other subject at SSCE or GCE ordinary level.
- (b) An acceptable level of performance in the Joint Matriculation Admission Board Examinations as determined by the University authority. and
- (c) Successful performance at all levels of the BU admissions screening exercises.

The duration of the programme shall be a 5 year standard programme for students with SSCE, GCE 'O'Level or their equivalent. The normal duration for the LL.B. programme shall be 10 (ten) semesters.

### **Direct Entry Admission**

Candidates with Advanced Level in Higher School Certificate or Bachelor of Arts degree holder from any accredited university with second class lower division may apply for admission into 200 level for the relevant undergraduate programmes. All eligible candidates must present their transcript and O'level result with credit in the English Language, Mathematics, Literature in English and any other subject.

## **DURATION OF PROGRAMME**

The programme leading to the Bachelor of Laws - LL.B (Hons.) degree covers a period of four or five (5) academic years/sessions depending on the mode of entry.

## **GRADUATION REQUIREMENT**

A student shall qualify for the award of a degree in LL.B (Hons.) when the student has completed and passed all the courses he/she registered for, including all compulsory courses and such elective/optional courses as may be specified by the University/Faculty and obtained a minimum cumulative CGPA specified but not less than 2.00 and earned the minimum credits units of not less than 194 in accordance with the School Regulation. Each student is expected to be aware of the various requirements as published in the bulletin under which he/she plans to graduate. The bulletin in force at the time of initial registration is the binding document between the student and the University. However a student may file an official petition with the office of the Dean of the School requesting to be allowed to meet the requirements of another bulletin in force during his/her time of residence. The student's freedom to choose the bulletin under which he/she will graduate has certain restrictions.



## BACHELOR OF LAWS - LL.B. (Hons)

### 100LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English 1	2	-
GEDS 132	Communication in English II	-	2
	<b>CORE COURSES</b>		
LAWS 101	Legal Methods 1	4	-
LAWS 102	Legal Methods 11	-	4
LAWS 103	Logic and Philosophic Thought I	3	-
LAWS 104	Logic and Philosophic Thought II	-	3
PLSC 102	Citizenship and Elements of Government	-	3
RELS 100	Old Testament Moral and Contemporary Laws***	3	-
ENGL 134	Introduction to Literary Criticism	-	3
ENGL121	Introduction to Prose Fiction	3	-
	<b>TOTAL (43 Credits)</b>	<b>23</b>	<b>20</b>

**NOTE: Citizenship Orientation is compulsory each semester but not computed with semester academic load since grades are computed with “P” or “F”.**

**BACHELOR OF LAWS - LL.B. (Hons)**  
**200LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	<b>0</b>	<b>0</b>
GEDS 200	Communication in French	2	-
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 290	Spreadsheet and Digital Presentations	2	-
	<b>CORE COURSES</b>		
LAWS 201	Constitutional Law I	4	-
LAWS 202	Constitutional Law II	-	4
LAWS 203	Law of Contract I	4	-
LAWS 204	Law of Contract II	-	4
LAWS 205	Nigerian Legal System I	4	-
LAWS 206	Nigerian Legal System II	-	4
	<b>ELECTIVE COURSES</b>		
*LAWS 207	Gender and the Law I	4	-
*LAWS 208	Gender and the Law II	-	4
*LAWS 209	Administrative Law I	4	-
*LAWS 210	Administrative Law II	-	4
	<b>TOTAL (43 Credits)</b>	<b>25</b>	<b>18</b>

**\* Students are expected to register for ONE out of the elective courses**

**NOTE: Citizenship Orientation is compulsory each semester but not computed with semester academic load since grades are computed with “P” or “F”.**

## BACHELOR OF LAWS - LL.B. (Hons)

### 300 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
LAWS 301	Criminal Law I	4	-
LAWS 302	Criminal Law II	-	4
LAWS 303	Law of Torts I	4	-
LAWS 304	Law of Torts II	-	4
LAWS 305	Law of Commercial Transactions I	4	-
LAWS 306	Law of Commercial Transactions II	-	4
LAWS 319	Computer Application in Legal Studies	3	-
LAWS 320	Legal Research Methodology	-	3
	<b>*ELECTIVE COURSES</b>		
LAWS 309	Law of Intellectual Property I	4	-
LAWS 310	Law of Intellectual Property II	-	4
LAWS 313	Environmental Law I	4	-
LAWS 314	Environmental Law II	-	4
LAWS 321	Family Law and Succession I	4	-
LAWS 326	Family Law and Succession II	-	4
LAWS 317	Islamic Law I	4	-
LAWS 318	Islamic Law II	-	4
	<b>TOTAL (45 Credits)</b>	<b>24</b>	<b>21</b>

**\* Students are expected to register for one out of the elective courses**

**NOTE: Citizenship Orientation is compulsory each semester but not computed with semester academic load since grades are computed with “S” or “U”.**

**BACHELOR OF LAWS - LL.B. (Hons)**  
**400LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	<b>0</b>	<b>0</b>
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
GEDS 430	Character Formation and Spiritual Growth	-	3
	<b>CORE COURSES</b>		
LAWS 401	Nigerian Land Law I	4	-
LAWS 402	Nigerian Land Law II	-	4
LAWS 403	Principles of Equity	4	-
LAWS 404	Law of Trusts	-	4
LAWS 423	Introduction to Nigerian Legal Practice I	4	-
LAWS 428	Introduction to Nigerian Legal Practice II	-	4
LAWS 425	Law of Evidence and Procedure I	4	-
LAWS 426	Law of Evidence and Procedure II	-	4
	<b>*ELECTIVE COURSES</b>		
LAWS 411	Conflict of Laws I	4	-
LAWS 412	Conflict of Laws II	-	4
LAWS 413	Oil and Gas Law I	4	-
LAWS 414	Oil and Gas Law II	-	4
LAWS 415	Law of Personal/Property Taxation	4	-
LAWS 416	Law of Business Taxation	-	4
LAWS 417	Law of Banking and Negotiable Instruments	4	-
LAWS 418	Law of Insurance	-	4
LAWS 419	Alternative Dispute Settlement	4	-
LAWS 420	Law of Arbitration	-	4
	<b>TOTAL (47 Credits)</b>	<b>24</b>	<b>23</b>

**\*Students are expected to register for one elective course per semester.**

**NOTE: Citizenship Orientation is compulsory each semester but not computed with semester academic load since grades are computed with “P” or “F”.**

**BACHELOR OF LAWS - LL.B. (Hons)**  
**500LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 280	Leadership Skills	2	-
GEDS 420	Biblical Principles in Personal and Professional Life **	3	-
	<b>CORE COURSES</b>		
LAWS 501	Jurisprudence and Legal Theory I	4	-
LAWS 502	Jurisprudence and Legal Theory II	-	4
LAWS 503	Company Law I	4	-
LAWS 504	Company Law II	-	4
RELS 521	Religious Liberty	3	-
LAWS 590	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
LAWS 505	Public International Law I	4	-
LAWS 506	Public International Law II	-	4
LAWS 511	Conveyancing I	4	-
LAWS 512	Conveyancing II	-	4
LAWS 515	Industrial Law I	4	-
LAWS 516	Industrial Law II	-	4
LAWS 517	Shipping and Admiralty Law I	4	-
LAWS 518	Shipping and Admiralty Law II	-	4
LAWS 533	Health Law and Policy I	4	-
LAWS 534	Health Law and Policy II	-	4
LAWS 535	Human Rights and Child and the Law I	4	-
LAWS 536	Human Rights and Child and the Law II	-	4
	<b>TOTAL (46 Credits)</b>	<b>24</b>	<b>22</b>

**\*Students are expected to register for TWO elective courses per semester.**

**\*\*Required course by AAA**

**NOTE: Citizenship Orientation is compulsory each semester but not computed with semester academic load since grades are computed with “P” or “F”.**

## **BACHELOR OF LAWS - LL.B. (Hons)**

### **COURSES DESCRIPTIONS**

#### **GEDS 001, 002                      CITIZENSHIP ORIENTATION   I, II                      0, 0**

These are non-credit, but mandatory seminars where students are mentored in all aspects of Christian life. It discusses many topics with the hope of modeling best moral practices on students. Students received either a satisfactory or unsatisfactory grade at the end of the semester.

#### **GEDS 101:                      PHILOSOPHY OF CHRISTIAN EDUCATION                      2 Credits**

A study of the efforts of philosophy to provide answers to major human problems and the scriptural principles and philosophical basis of Christian education with particular emphasis on the Seventh-day Adventist educational system.

#### **GEDS 105:                      USE OF LIBRARY AND STUDY SKILLS                      2 Credits**

This course discusses the Importance of Library as a source of information, the history of libraries, modern trends in library practices and application of computer in library operations. Emphasis is also given to circulation, filing/shelving, shelf reading cataloguing and classification.

#### **GEDS 107:    INTRODUCTION TO GENERAL PSYCHOLOGY                      (2 Credits)**

A survey of the major fields of interest in psychology including the following: Biological basics of behavior, sensation, perception and states of consciousness, learning, memory, motivation, emotion, personality, health psychology, abnormal behaviour, sexuality, intelligence and applied psychology.

#### **GEDS 112:                      HEALTH PRINCIPLES                      (2 Credits)**

An introduction to the meaning and scope of health and well-being. The principles of health promotion through simple preventive strategies will be discussed. Students will be acquainted with current trends in health knowledge and healthful living. Each student will be encouraged in some form of physical activities that should promote health.

#### **GEDS 120: ICT FUNDAMENTALS AND OFFICE PRODUCTIVITY MANAGEMENT 2 Credits**

Getting Started With Word, Editing a Document, Formatting Text and Paragraphs, Adding Tables. Managing Lists, Inserting Graphic Objects, Controlling Page Appearance, Proofing a Document and Customizing the Word Environment. Working with Tables and Charts, Customizing Formats Using Styles and Themes, Using Images in a Document, Creating Custom Graphic Elements, Inserting Content Using Quick Parts, Controlling Text Flow, Using Templates, Using Mail Merge and Using Macros.

#### **GEDS 126:    LIFE AND TEACHINGS OF JESUS THE MESSIAH                      3 Credits**

This course briefly investigates the background to the four gospels, problems of authorship, dates, places or writing and the source theories and subsequently focuses on the man, mission and ministry of Jesus Christ as reflected in the parables, miracles and other teachings of Jesus as recorded in the gospels.

#### **GEDS 131, 132:                      COMMUNICATION IN ENGLISH   I, II                      2, 2 Credits**

Effective communication and writing in English Language skills, writing of essays, answers, comprehension, sentence construction, outlines and paragraph, collection and organization of materials and logical presentation, punctuation.

Logical presentation of papers, phonetics, instruction on lexis, art of public speaking and oral communication figures of speech, précis, report writing.

**HIST 110: PRE-COLONIAL AFRICAN DIPLOMACY 3 Credits**

This course is intended to introduce students to the existence and procedure of diplomatic activities in pre-colonial African kingdoms, empires and city states prior to the encounters with colonial powers. It is also aimed at bringing out the many dimensions of the diplomatic activities and, therefore, the relevance of the African experience of diplomacy in modern international relations in general and to intra-African relations in particular.

**PLSC 102: CITIZENSHIP AND ELEMENTS OF GOVERNMENT 3 Credits**

This course examines a general survey of citizens' roles in governance. The course defines and applies various concepts such as citizenship, systems and role of government, branches of government, and the rule of law within the society. It looks at the duties and obligations of the citizens, the nature of the state as well as the responsibility of the state to the citizen; nature of strained relations and processes of rectification, freedom, loyalty, patriotism, etc.

**RELS 100: OLD TESTAMENT MORALS AND CONTEMPORARY LAWS 3 Credits**

This course is pragmatic in nature in that it deals with practical solutions to everyday problems of law and order. Firstly it deals with the set of laws popularly known as the ethical Decalogue which governs the human moral life, it examines what makes human conduct right or wrong first from the perspectives of certain philosophers and relates it to the importance of morality especially from the biblical perspective set out in the Old Testament. Secondly, Old testament civil laws is then examined in light of the current social issues such as truth telling, capital punishment, euthanasia, abortion, surrogacy, same sex marriage, divorce, succession and intestacy, terrorism etc.

**ENGL 121: INTRODUCTION TO PROSE FICTION 3 Credits**

The course introduces students to the novel as an art form. Emphasis is placed on the techniques of fiction, characterization, plot, story, dialogue and thematic development.

**ENGL 134: INTRODUCTION TO LITERARY CRITICISM 3 Credits**

A course in history of literary criticism focusing on general critical principles and the recent archetypal, formalistic, sociological criticisms and the postmodern and *avant garde* doctrines. An attempt will be made to relate these problems in criticism of African literature.

**LAWS 101: LEGAL METHODS I 4 Credits**

The course is designed to expose students to legal methods and the working of law in society. It will examine Law in Social Context, Nature and functions of law in society, Law, order and justice; law and freedom; law and the state; law and legitimacy; law and sovereignty. Types of law-eternal law, divine law, natural law and human or positive law; classification of law; common law and civil law; common law and equity, public and private law, civil and criminal law substantive and procedural law, written and unwritten law. Methods of social Control through law – Panel methods: grievance remedial method; private arranging method; constitutive method, administrative regulatory method; fiscal method; conferral or social benefits methods. Legal reasoning in Judicial process – sifting of facts and law in courts; *ratio decidendi*; precedents. Legal Process to Legislative proposals: legislative drafting; ambiguity, vagueness, open texture, semantics in law; legislative process; construction of statutes; types of legislation; codification of laws. Legal reasoning and approach to problems: language of the law; principles, standard and

issues in law; formality and precision in the use of language and distinctiveness of legal language; legal rhetoric and legal logic; legal reasoning and practical reasoning; legalism.

**LAWS 102:                      LEGAL METHODS II                      4 Credits**

The course focuses primarily on sources of law and legal writing. It examines methods and approaches such as: Sources of law primary sources: statutory materials and judicial materials; secondary source: books and pamphlets, letters, speeches, interviews, periodicals and new-papers; foreign materials. Use of source materials: law library and legal research, indexing and identification of library materials, cases and citation of cases and reports; identification of issues, principles, rules, authoritative elements in books and judicial opinions; analysis and note taking; use of authorities in legal argument and legal writing. Legal writing: methods and approaches in essay writing; styles of writing; analysis of social and legal issues and application of legal rules; division of topics into chapters, sections and subsections.

**LAWS 103,104: LOGIC AND PHILOSOPHIC THOUGHT I, II 3 Credits**

This course deals with a survey of main branches of Philosophy. It includes Symbolic logic; special symbols in symbolic logic – conjunction, negation, affirmation, disjunction, equivalence and conditional statements. It includes study of the nature of formal argumentation, inference and proof; includes practice in constructing logically sound arguments as well as analyzing some study of informal logical fallacies. The course is also about arguments in Logic, deductive and inductive reasoning, logical proposition, statements, proof of validity, fallacies, truth tables and elementary aspect of symbolic logic.

**GEDS 215: FUNDAMENTALS OF CHRISTIAN FAITH** **3 Credits**

This course is a general survey of selected Biblical teachings regarding revelation/inspiration creation and salvation.

**GEDS 200: COMMUNICATION IN FRENCH** **2 Credits**

These courses introduce students to French, Alphabets and numeracy for effective communication (written and oral), conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

**GEDS 221: INTRODUCTION TO AGRICULTURE** **2 Credits**

Meaning, nature and elementary concepts of Agricultural science; background lecture to Field work., farm management, Field practices, farming systems and farm machinery and implements. Tree Crop Production; processing and utilization; Roots and Tuber crop production; soil chemistry and fertility management; domestic animals and their uses; the science of animal production, principles of Livestock management and Industry.

**GEDS 290: SPREADSHEET AND DIGITAL PRESENTATION** **2 Credits**

Microsoft Excel is the standard spreadsheet application for both the business world and personal use. You will learn from basic to advanced features of Excel. New features of Excel 2013, Quick Analysis tool to analyze your data instantly, Flash fill that recognizes data entry patterns, Intelligent Chart Recommendations, Enhanced Slicer functionality usable beyond pivot tables. New Excel functions such as Date and Time, Lookup References, Math and Trigonometry Statistical, Engineering, Cube, Information, Compatibility and Web. The Newest Features of Excel 2013, Performing basic to advanced calculations using formulas, Formatting and printing worksheets, Create powerful charts and graphs, Create Pivot tables and charts, Excel data table features that will enable you perform your tasks easily.



**GEDS 222: HISTORY AND PHILOSOPHY OF SCIENCE****2 Credits**

Man – his origin and nature, man and his cosmic environment, scientific methodology, science and technology in the society and service of man, renewable and non-renewable resources; man and his energy resources, environmental effects of chemical plastics, textiles, wastes and other materials, chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies.

**LAWS 201: CONSTITUTIONAL LAW I****4 Credits**

This course examines the concept, nature and objectives of constitution and constitutional law. Definition and sources of constitutional law: classification of the constitutions; written and unwritten, rigid and flexible, federal and unitary, presidential and parliamentary. The concepts of separation of powers: rule of law federalism, supremacy of the constitution/parliament. The legal consequences of change of government by extra-constitutional means (e.g. coup d'état). Constitutional history of Nigeria: constitutional history of Nigeria from the advent of British rule up-to-date.

**LAWS 202: CONSTITUTIONAL LAW II****4 Credits**

This course examines the military and constitution making in Nigeria, Supremacy of the Constitution, concept of Legislative power; judicial power and executive power, powers and functions of the president and governors, appointment, legislative, police, public order, defense, emergency, prerogative of mercy, foreign affairs, Federal and State Executives bodies, Attorney General's powers amongst others.

**LAWS 203: LAW OF CONTRACT I****4 Credits**

The course is concerned with the nature of contract and contractual obligations, against the background of the fundamental notion of freedom and equality of bargaining strength the common law rules and statutes governing the following: Nature of Contract: Sources of law, concept of bargain, classification. Formation of Contract: Offer and Acceptance, consideration, intention to create legal relations. Contents of Contract: Terms, representations excluding and limiting terms and fundamental breach of terms. Capacity: Infants, illiterates, corporations, mental patients and drunken persons.

**LAWS 204: LAW OF CONTRACT II****4 Credits**

This course introduces the students to the rules affecting the enforceability or non-enforceability of contractual obligations, together with the discharge of contract and remedies for breach of contract. The topics to be examined will include vitiating elements of a contract: mistake, illegality and unenforceable contracts; privity of contract, rules and exceptions; discharge of contract by performance, agreement, breach and frustration. Remedies, damages: equitable remedies as well as *quantum meruit* and quasi contract.

**LAWS 205: NIGERIAN LEGAL SYSTEM I****4 Credits**

The course is designed to introduce students to the Nigerian Legal System. It encompasses a study of: the idea of a legal system, nature and function of law, classification of law, sources of Nigerian law, legislation, judicial precedents, case law, customary law, Islamic law, English Common law and the doctrine of equity, the reception and application of English law in Nigeria will also be examined.

**LAWS 206: NIGERIAN LEGAL SYSTEM II****4 Credits**

This course introduces the students to internal conflicts in different customary Laws and Islamic Laws, with emphasis on judicial institution, types and jurisdictions of courts, judicial personnel appointment and tenure. Civil and criminal procedure in Nigeria, legal aid and recent development of law in Nigeria, especially peace and conflict. Basic Concept in peace and conflict resolution; Peace as vehicle of unity and development;

Conflict issues; Types of Conflict, e.g. Ethnic/religion/political/economic conflicts; Roots causes of conflicts and violence in Africa; Indigene/settler phenomenon; Peace – building; Management of conflicts and security. Element of peace studies and conflict resolution; Developing a culture of peace; Peace mediation and peace-keeping; Alternative Dispute Resolution (ADR). Dialogue/arbitration in conflict resolution; Role of international organization in conflict resolution, e.g. ECOWAS, African Union, United Nations, etc

**LAWS 207, 208: GENDER AND THE LAW 1, 11 4, 4 Credits**

This course will focus on prejudice and discrimination along with other problems experienced by women especially issues of domestic violence and incest. The position of women under the Nigerian Constitution and the corresponding obligation are also examined. A careful analysis of the position of women in labour force under the prevailing labour laws, taxation and employment contract regulations are examined. The rights of women under the various legal systems in relation to succession, family law, tort and land law are evaluated. The Course also examines the impact of custom, religion and other various laws on the jurisprudence relating to women and their rights and obligation under our legal system.

**LAWS 209: ADMINISTRATIVE LAW I 4 Credits**

This course is designed to examine the functioning of the various administrative institutions in the country. It examines nature, scope and sources of administrative agencies and procedure, relationship between administrative law, the rule of law and separation of powers and delegation of powers and delegated legislation its nature, forms, making and control thereof. It has examines administrative process, purposes of government, delegated legislation, redress of grievances, public corporation, discretionary power, case studies and application.

**LAWS 210: ADMINISTRATIVE LAW II 4 Credits**

The course examines administration and public corporations. The course teaches students administrative adjudication, powers of administration; these include administrative invasion by tribunals of peoples' legal right, delegations and enquiries. This course also covers Nigerian approach to administration, constitutional and other safeguards against misuse of administrative power; judicial control of administrative and judicial powers of administration; ground of judicial review *ultra vires*, natural justice, and error Law; Remedies, e.g., certiorari, prohibition, mandamus, declaration, injunction *habeas corpus*, damages and appeal and the ombudsman and Action by and against states, corporations and local governments.

**ECONS 101: PRINCIPLES OF ECONOMICS I 3 Credits**

An introduction to the various issues in economics, the nature of economic science the methodology of economics, major areas of specialization in economics, historical development of economic ideas, basis principles of micro and macro-economics and introduction to the theory of demand and supply.

**ECONS 102: PRINCIPLES OF ECONOMICS II 3 Credits**

Knowledge of the basic concepts of economic principles; concept and tools for economic analysis. Knowledge of the structure and functioning of economic institutions and various economic systems; national income accounting; the functions of money and policies for controlling inflation, the problem of business cycle.

**GEDS 317: RELIGION AND SOCIAL ETHICS (3 Credits)**

The concept of God and His role in the life and times of modern human society. The course also exposes the student to the problem of religion and state. The contribution of religion to personal and national ethical values, the environment and social issues are discussed.

**GEDS 312: INTRODUCTION TO FAMILY LIFE EDUCATION 2 Credits**

Study of marriage and family relationships, forms, trends and cross-cultural variation in mate selection, dating, sexual education (pre-marital sex, adolescents and conception, sexually transmitted diseases) and processes leading to the establishment of a stable family.

**GEDS 310: E-CUSTOMER RELATIONSHIP MANAGEMENT 2 Credits**

Define and explain the concepts and general overview of Customer Relationship Management (CRM). Goals of CRM, Pillars of CRM, Drivers of CRM, Benefits of CRM and solution maps of CRM. The concept of e-CRM, its implementation and challenges. Developing a Customer Strategy and the Fundamentals of Customer Strategy; Customer Strategy Basics (Customer Loyalty, Customer Satisfaction, Customer Profiling and Modeling). Evolution of a Customer Centric Enterprise (Concept and Essence). Product Centricity, Specific Adaptations of a Customer Centric Enterprise (CCE). The Core of successful CRM initiatives, Seven Habits of a successful CCE. Mapping People, Processes and Technology. Discussing people, Processes and Technology; Transitioning from Product Centricity - Processes, Transitioning from Product Centricity – People, Transitioning from Product Centricity – Technology. Customer Lifestyle Management and Lifetime Value (Concept of Customer Lifestyle, Stages), Managing the Customer Life Cycle in a CCE, Concept of Customer Lifetime Value and Customer Lifetime Value assessment.

**LAWS 301: CRIMINAL LAW I 4 Credits**

The course is designed to ground the students in the underlying philosophy of criminal law. It examines the cultural underpinnings of criminal law and the social context of criminal law in Nigeria, the general principles of criminal liability, defences and specific offences, the definition of crime and the policy of criminalisation underlying the Criminal Code, the Penal Code and other penal systems in Nigeria. Sources of criminal law in Nigeria and the extent of compatibility of the laws with Nigerian culture. Legal classification of offences into misdemeanours, simple offences and felonies and other descriptive criteria for classification of offences. Personal, corporate, strict and vicarious criminal liability. Attempt and conspiracy. Principal, accessories and common intention. False imprisonment, attempted suicide, abortion, assaults, murder, manslaughter. Rape, indecent assault, defilement, sodomy, abduction. Bestiality, indecent acts, obscenity, offences allied to prostitution/trafficking. Self-defence, defence of others, self-preservation, provocation, insanity, intoxication, immaturity due to non-age.

**LAWS 302: CRIMINAL LAW II 4 Credits**

This course is designed for the study of preliminary offences, including-Violent Property Offences: Robbery, armed robbery, burglary and house breaking, demanding property with menaces, malicious damage and defence to property and arson. Non- Violent Property Offences: Stealing, obtaining by false pretences, obtaining credit by fraud, cheating, receiving stolen property and defence of *bona fide* claim of right. Offences Against the State: Sedition and treason. Offences Relating to the Administration of Justice: Obstructing police officer in the execution of duties, perjury and contempt of court. Public Order Offences: Unlawful assembly, rioting, affray, street trading etc. Other Offences: Forgery and uttering, corruption and economic crimes.

**LAWS 303: LAW OF TORTS 1 4 Credits**

The course is designed to explain the basic principles which underline the law of tort including the nature, meaning, function of and the interests protected by tort which is a civil wrong. Distinction between tort and other subjects as contract, criminal law and equity; topics such as assault, battery, and false imprisonment will be dealt with and relevant international covenants will be discussed. Intentional harm other than trespass to the person, trespass to goods, conversion and detinue and trespass to land will also be examined. The tort of negligence covering liability for omission to act, liability for negligent misstatements, psychiatric injury for negligence, economic loss, employer's liability for workmen and defences, together with its components of duty of care, breach of duty of care and damages will be discussed. Causation and remoteness of damage will also be examined.

**LAWS 304: LAW OF TORTS II 4 Credits**

In continuation of the topics dealt with in the first semester, the following topics will be covered during the second semester: liability of the occupier, liability under the Rule in *Rylands v. Fletcher*, the tort of nuisance under which a distinction will be made between private and public nuisance, liability for animals, liability for fire, tort of defamation, vicarious liability, malicious prosecution, tort of deceit, passing off, conspiracy, interference with contract, joint tort-feasors, claims under fatal accident laws, defences and damages.

**LAWS 305: LAW OF COMMERCIAL TRANSACTIONS 1 4 Credits**

This course encompasses agency and hire purchase and it is designed to give the students an in-depth knowledge of the principles of law that affect the relationship of agent, principal and third party. It therefore examines the definition of agency, agency and other similar legal relationships, various categories of agents, creation and interpretation of the agent's authority; rights and liabilities of both principal and agent towards each other and towards the third party, termination of agency, etc.

**LAWS 306: LAW OF COMMERCIAL TRANSACTIONS II 4 Credits**

This course concentrates on studying the legal problems that arises in the sale and distribution of goods, nature and definition of a contract of sale of goods, distinction between sale and other contracts; seller's obligations as to quality and delivery, ownership and risk and choice of remedies for breach. It also examines the problems incidental to documentary transactions and carriage of goods.

**LAWS 319, 320: COMPUTER APPLICATION IN LEGAL STUDIES AND LEGAL RESEARCH METHODOLOGY 3 Credits each**

This course is designed to avail law students with the major characteristics of a computer; the different classes and categories of computer; hardware and the basic components of computer hardware; different software packages for legal work and research including drafting, writing, correspondence, presentations, etc.; information system; the major functions of networks for legal work and research; ICT and its applications in carrying out their everyday assignments in practice and in preparation for legal research, law school and legal practice. The application of ICT in legal context is termed "legal technology." The emphasis is for them to understand the applications of computer in information technology that translates to effectiveness and efficiency in legal practice and research be it as barristers or as solicitors. Students shall be introduced to the recent ICT facilities of e-filing, e-service, e-trial, e-justice etc. Various sources of database for cases e.g., LexisNexis, Westlaw, Lawpavilion, Manupatra, Findlaw, etc., will be introduced.

**LAWS 309: LAW OF INTELLECTUAL PROPERTY I 4 Credits**

This course considers relevant issues in relation to the law of copyright and related rights. The nature of copyright, ownership rights and their exploitation in the international environment as well as international conventions on copyright and related rights, the implication of new technology on copyright,

confidential information on property, the exploitation and protection of the right. It examines the historical evolution of the law, the nature and scope of protection, ownership and transfer of rights. Emerging developments at the international level which respond to the needs of developing countries are also highlighted.

**LAWS 310: LAW OF INTELLECTUAL PROPERTY II** **4 Credits**

This course considers major forms of industrial property namely trade mark, patents and industrial designs. It examines the nature of legal protection offered by the law nationally and internationally together with the historical evolution of these concepts. It highlights their exploitation and the impact of international environment on their development. International and regional approaches to the protection of industrial property rights-Paris Convention, GATTs, TRIPs, Madrid Agreement and Protocol, ARIPO/OAPI;

**LAWS 313: ENVIRONMENTAL LAW I** **4 Credits**

The course examines the concept of the environment and attempts an analysis of the legal, political, social and economic dimension of environmental control and legislation. Customary environmental management practices and international developments that have influenced the emergence of domestic and constitutional framework for environmental regulation will also be examined. Topics to cover include Concept of environment, Meaning of environmental law, Man-his origin and nature; Man and his cosmic environment; Scientific methodology, Science and technology in the society and service of man. Renewable and non-renewable resources – man and his energy resources. Environmental effects of chemical plastics, Textiles, Wastes and other materials, Chemical and radiochemical hazards, Introduction to the various areas of science and technology. Element of environmental studies; meaning of pollution, theories of environmental protection, science and environment, poverty and environment and law and environment; Evolution of national environmental policy laws and institutions. Permanent sovereignty of natural resources, precautionary principle, polluter pays principle, user pays principle etc. Customary environmental conservation and pollution control practices; Land, water and air pollution including climatic change; Private law and environmental protection, nuisance, trespass, negligence and the rule in *Rylands v Fletcher*; Solid, toxic, and hazardous including chemical management; Concept of zoning as a tool of environmental protection; Damages, injunction, statutory compensation, ADR and environmental dispute.

**LAWS 314: ENVIRONMENTAL LAW II** **4 Credits**

This course aims at equipping students with knowledge of environmental law and policies. Theories of environmental protection, relationship between consumption and environmental pollution, science and law, role of law in environmental protection; International environmental law: treaties, customs and principles. Theories and principles of environmental protection; Municipal regulation of environmental law; environmental regulatory powers under the Nigerian constitution, relationship between environmental protection and human rights, concepts of the right of a clean environment, media of environmental pollution; environmental management techniques; criminal offences and liabilities created under the various laws relating to environmental protection; civil liability and remedies for environmental pollution and degradation; environmental litigation as well as international enforcement mechanism, procedure of African Commission, CSCER.

**LAWS 321: FAMILY LAW AND SUCCESSION I** **4 Credits**

The first semester course is designed to acquaint students with the law governing the formation of the relationship called marriage whether statutory and customary marriages as well as when it can be terminated. Hence, the first semester covers a study of contract to marry, capacity to marry, essential validity of marriage, celebration of marriage, legal effects of marriage, status of marriage celebrated abroad. The

international covenants on rights to marry and form of a family will also be discussed. The various rights of spouses and children of the marriages in the matrimonial and non-matrimonial causes both in statutory and customary marriages, this will be in relation to *foster parentage, custody and guardianship of children, child abuse and neglect, domestic violence, parental rights and duties*, legitimacy and legitimation. Adoption and foster parentage will also be dealt with. In teaching these topics, relevant constitutional provisions and international covenants will be reflected.

#### **LAWS 326: FAMILY LAW AND SUCCESSION II 4 Credits**

The second semester will cover matrimonial causes which include nullity and dissolution of marriage, judicial separation, restitution of conjugal rights, jactitation of marriage and finally jurisdictional issues. It is also designed to familiarize the students with the nature and source of the Nigerian Law of succession, the making of will, and the administration of the estates of a deceased. The course will consider the customary rules of succession in various jurisdictions in Nigeria, as well as the customary and non-customary rules on maintenance, settlement of property, division of matrimonial property. The course will also examine testate succession, including the nature of wills and other dispositions taking effect at death, the formalities in making a will and how to amend, alter and destroy wills generally. Further to the aspect of succession issues on administration of estates will be studied.

#### **LAWS 317: ISLAMIC LAW I 4 Credits**

The course is designed for the study of the nature and application of Islamic Law. It encompasses the nature and sources of Islamic law, the historical background, pre-Islamic Arabia, the rise of Islam- sharia. The development of the judicial system, Muadh Jabel's appointment. Prophet's direction: Umar's directions to the judges, the development of the judicial institutions; Qadi muhtasib, Wazir Mazalim. The role of juristic opinion (Holy) and customs ('urf) in the developments of Islamic law. The emergence of the Schools of La Maliki, Hanafi, Shafii, Hanbali, Ja'Fari and Zshiri. The developments of Islamic Legal literature; types (e,g compendia, abridgements, gersses, response, etc) The frequently consulted authoritative texts of the various schools of law. Modern developments, impacts of western legal system. Islamisation of laws in recent years.

#### **LAWS 318: ISLAMIC LAW II 4 Credits**

This course exposes students to the study of the historical background in West Africa including Nigeria; the introduction and spread of the Maliki School of Law in Nigeria; the authoritative books, the Islamic court system; application of Islamic law during the British period; the extent and application of Islamic law at present.

#### **GEDS 400: INTRODUCTION TO ENTREPRENEURIAL SKILLS 2 Credits**

This course discusses entrepreneurship in theory and practice; opportunities, form of business, staffing, marketing and the new venture; determining capital requirements. Raising capital; financial planning and management; starting a new business: feasibility studies; innovations, legal issues, insurance and environmental considerations; possible business opportunities in Nigeria and abroad. Entrepreneurial Theories: interpersonal or personal characters and behavioural traits of entrepreneurship in which business success is most commonly reflected. External aspects of entrepreneurship.

#### **GEDS 440: E-PROJECT MANAGEMENT AND SIMULATION 2 Credits**

Learn the fundamentals to advanced concepts of solid Project Management Exploring Project Management Fundamentals, performing the Pre-project Setup, Initiating a project, Planning Project Strategy, Developing the Project Schedule, planning Human Resources, Communications and Quality, Planning Project Risk

Management Planning Project Costs. Planning Project Procurements, Planning for Change Management and Transitions, Managing Project Execution, Managing Project Procurement, Monitoring Project performance, Monitoring and Controlling Project Constraints, Monitoring Project Risks and Procurements, Performing Project Closure.

**GEDS 430: CHARACTER FORMATION AND SPIRITUAL GROWTH      3 Credits**

The course focuses on the Biblical perspectives on character formation and spiritual growth of the student. Recognizing that character formation and spiritual growth are both a life-long process, the course emphasizes the need for spiritual nurture and care. This is expected to lead to the renewing of the mind and the maturing and growing of Christian identity. The course also identifies how God utilizes Scripture, people, contexts, literature, spiritual disciplines, and events to transform believers into the image of Christ. Specifically, the spiritual discipline of prayer, feeding on the word and meditating on it are intentionally designed to foster spiritual growth. The course underscores the role of the Holy Spirit in building a symmetrical and Christ-like character. While references to some Biblical characters with a view to evaluating their strengths and weaknesses may be helpful, a major focus of the course is on the life of Christ, the one and only perfect character. By daily contemplating the character of Christ, the student becomes changed to the same image. Students offering the course are expected to imbibe the character trait of love, faithfulness, reverence, integrity, piety that will equip them to render selfless service in the wider society.

**LAWS 401: NIGERIAN LAND LAW I      4 Credits**

This course is designed to familiarize the students with the objects, sources and basic concepts of land law. Specifically, the study covers the consideration of the meanings and interrelationships of ownership, possession and title, the characteristics of customary land law, communal, family and individual tenures, customary land relationships; the equitable control of customary transactions through the defences of acquiescence and laches, and the law of succession in outline. The course also offers the students an early exposure to non- customary doctrines of tenure estates, settlements, and co-ownership.

**LAWS 402: NIGERIAN LAND LAW II      4 Credits**

This course exposes students to non- customary estate and interest; lease and tenancies, mortgages and servitudes in the nature of easements and covenants affecting land. State control of land through the process of registration of instruments and titles is also taught. Finally, the modifications of customary and non-customary system by the Land Use Act 1978 are considered. This involves an examination of the basic principles of the Act registration of instruments/registration of title.

**LAWS 403: PRINCIPLES OF EQUITY I      4 Credits**

This course is divided into two parts vis-à-vis principles of equity and law of trusts. Part I of the course is designed to highlight the general principles of equity in English jurisprudence in the light of Nigerians social experience. It examines the underlying philosophy of equity in various jurisdictions and highlights the common trend running through the streams. It further highlights the meaning and historical outline of equity; relationship between equity and common law, the introduction of English common law and the doctrine of equity into Nigeria, as well as examines the influence of equity on customary law in Nigeria. In addition, it examines the nature of equitable rights and priority as well as equitable defenses.

**LAWS 404: LAW OF TRUSTS      4 Credits**

Part II of the course deals with law of trusts which will be taught during the second semester. It aims at a detailed analysis of the development of the law of trusts in the English jurisprudence. It further considers the concept of trust as a concept with universal application and distinguishes between the concept and other legal

relationship. In addition, it examines the constitution of trusts; different types of trusts; appointment, removal and retirement of trustees, duties and powers of trustees, and remedies for breach of trust.

**LAWS 423: INTRODUCTION TO NIGERIAN LEGAL PRACTICE 1      4 Credits**

This course covers interviewing and counseling; legal writing; legal research and analysis; civil procedure. This course is designed to acquaint students with basic fundamentals and elements of civil litigation in Nigeria, course content will cover objectives and sources of civil procedure Rules; Organization and civil jurisdiction of courts in Nigeria; Parties to civil actions; Commencement of proceedings; Pleadings; Interlocutory Applications; Summary Judgment Procedure & Default Judgment; Trial Advocacy; Settlement disputes by parties and use of alternative dispute resolution; Judgment and Enforcement; Interim Orders pending appeal; Appeals; Election Petition; Recovery of possession of premises; Procedure for enforcement of fundamental Rights; Matrimonial causes; Costs and Sanctions

**LAWS 428: INTRODUCTION TO NIGERIAN LEGAL PRACTICE 11      4 Credits**

This course covers ethics, discipline, professional responsibility and criminal litigation in Nigeria. This course examines the principles and techniques of criminal procedure in the Magistrate and High Courts in Nigeria.

**LAWS 425: LAW OF EVIDENCE AND PROCEDURE I      4 Credits**

This course examines Nigerian law of evidence and procedure with emphasis on the sources of Nigerian law of evidence; direct and circumstantial evidence; facts in issue and relevant facts; complaints; similar facts evidence; *res gestae*; character evidence and opinion evidence.

**LAWS 426: LAW OF EVIDENCE AND PROCEDURE II      4 Credits**

This course examines hearsay evidence, estoppels, *res judicata*, competence and compellability of witnesses, privilege generally, corroboration, burden of proof, documentary evidence and electronically generated evidence amongst others.

**LAWS 411: CONFLICT OF LAWS 1      4 Credits**

This course teaches students the legal principles and practice applied by courts when confronted with issues involving more than one applicable legal system which may be foreign or domestic. The course aims to prepare the student for legal practice within a diverse national system that further advances into an even more diverse sphere of transnational activities which require the application of multiple legal systems. Students will be expected to study assigned textbooks, cases and any other academic material that would enhance discussions and interaction during lectures.

**LAWS 412: CONFLICT OF LAWS II      4 Credits**

This course introduces the students to the problem of choice of law in relation to persons, obligations, property, marriages and recognition of foreign judgments both at the inter-state and international level. Contract in the Conflict of Laws: Connecting factors; proper law of contract; function and limit of its application. Property in the Conflict of Laws: Nature & classification; the Rule in *BSA v Companghia De Mocambique*; exception thereto; tangible and intangible movables; foreign garnishee orders. Jurisdiction: Classifications: *in personam* and *in rem*; discretionary jurisdiction; *forum non conveniens*; contractual ouster and *lis alibi pendens*; inter-state choice of jurisdiction (Sheriffs & Civil Process Act). Jurisdictional Immunity: Sovereign immunity and diplomatic immunity; immunity of foreign international organizations. Recognition and enforcement of Foreign judgment: Recognition at common law; enforcements under statutes; inter-state enforcements of judgement.



**LAWS 413: OIL AND GAS LAW I****4 Credits**

The course provides general introduction to the nature, characteristics and special importance of oil and natural gas. It focuses on the legal issues that dominate the search for, development and regulation of oil and natural resources. Transnational and national legal issues are examined with particular reference to Nigerian concerns and development. The course seeks to provide a combination of theoretical and practical understanding of the course through an interactive learning methodology that encourages individual and team work approach to research and presentation skills. It covers origin and meaning of oil and natural gas: International Aspect of Oil and Natural Gas: Ownership of Mineral Resources under National and International Law: Nature and Types of Concessions: Organization of Petroleum exporting Countries: Contractual Agreements and State Participation: Nigerian National Petroleum Corporation, Human Resources and Technology Transfer:

**LAW 414: OIL AND GAS LAW II****4 Credits**

Part 11 covers Oil and Natural Gas Pipelines: Pipelines nature and functions-national and international law aspects-nature of oil pipeline license ownership and use – concept of common carriage easements-rights and obligations of license safety and inspection compensation – civil and criminal responsibilities trespass and sabotage. Oil Revenue Allocation: Transfer of oil and natural gas technology: Administration of petroleum profits (taxation): Oil Refinery and Processing Plants: Oil and Natural Gas pollution: Expropriation: Settlement of oil and Natural Gas Disputes: Emerging issues in Natural Resources and Energy Law.

**LAWS 415: LAW OF PERSONAL PROPERTY TAXATION 1****4 Credits**

This course is designed to introduce students to the basic principles of personal and property taxation including the introduction, definition, nature, functions, essence of taxation, distinction between taxes, duties, fee and levies, sources of taxation law with special focus on fiscal contents of budgetary provisions, classification of taxes, historical development of the taxation globally and in Nigeria. Division of taxing Powers, distinction between, regulatory powers, the concept of double taxation and multiplicity of taxes. Principles for interpreting tax statutes, Evasion and avoidance, Tax Offences and Penalties. Framework for personal income taxation in Nigeria- the basis of liability to tax in Nigeria under the personal Income Tax Act, direct Assessment. Pay As You Earn (PAYE) Scheme. Personal Income Tax Administration- Powers and Functions of Federal Inland Revenue Service, State Board of Internal Revenue, Joint Tax Board (JTB), Local Government Revenue committee and States' Joint Local Government Revenue Committee. Principles of Property Taxation, Tenement Rates and Land Use Charge.

**LAWS 416: LAW OF BUSINESS TAXATION****4 Credits**

The course is designed to introduce students to the regime of business taxation in Nigeria. The students will be exposed to taxation of companies' income and array of taxes that impact directly on businesses. The course will include the general principles of companies income taxation- theories of taxation of company, history, basis of liability to tax under the companies income tax Act (CITA), ascertainment of profits, incentives and reliefs, returns, assessments, appeals, collection, recovery and payment of tax, withholding tax system, Corporate liability for tax offences and penalties. Administration of Companies Income Tax. Tax Audit and Investigation. Enforcement and Recovery. Value Added Tax; Petroleum Profits; Capital Gains Tax; Tax, Education Tax; Stamp Duties; Taxation of investment income; International Taxation.

**LAWS 417: LAW OF BANKING AND NEGOTIABLE INSTRUMENTS****4 Credits**

The course introduces the student to the laws and principles regulating the practice of banking. The history of banking is explored in exposing the student to the intricacies in the assignment of choses in action both at

common law and in equity. The link between negotiable instruments and the practice of banking is unraveled for the student. The various types of negotiable instruments are taught in great detail with their legal intricacies highlighted. Key regulatory institutions in the banking industry are examined in the context of existing statutes. Contemporary issues in banking and the use of negotiable instruments are considered. The advent of electronic banking and its effect on traditional banking principles are explored.

**LAWS 418: LAW OF INSURANCE**

**4 Credits**

The emphasis of this course is in twofold: the general principles underlying insurance contracts, particularly non-marine insurance contracts. There will be no comprehensive coverage of particular types of insurance but reference would be made to them as the need arises, to illustrate issues that relate to the specific contract. The second is the regulation and supervision of insurance business. The course will explore the rationale for, and the instruments of control highlighting policy shifts.

**LAWS 419: ALTERNATIVE DISPUTE SETTLEMENT**

**4 Credits**

The course is designed to equip the students with the techniques of negotiation and mediation as an alternative method of dispute settlement. It covers the introduction of alternative dispute resolution, the structure of negotiation, strategy, style and skill: implementing a strategy, psychological and social aspects of bargaining, professional and legal framework for negotiation, the mediation process, the role of the mediator, confidentiality in mediation, and enforcement of mediation agreement.

**LAWS 420: LAW OF ARBITRATION**

**4 Credits**

The course is designed to equip the students with the techniques of arbitration. It covers the introduction, arbitration and conciliation law in Nigeria, nature and object of arbitration, forms of arbitration, arbitration institutions, the arbitration tribunal, powers and duties of arbitration, arbitration proceedings, evidence in arbitration, the awards; recognition of and enforcement of foreign arbitral awards, judicial intervention in arbitration, and essentials characteristic of international commercial arbitration.

**GEDS 280: LEADERSHIP SKILLS**

**2 Credits**

These are non-credit, but mandatory seminars where students are mentored in all aspects of Christian life. It discusses many topics with the hope of modeling best moral practices on students. Students received either a satisfactory or unsatisfactory grade at the end of the semester. Transformation is a fundamental shift in the deep orientation of a person organization or society such that the world is seen in new ways and new action and results become possible that were impossible prior to the transformation. Transformation happens at the individual level but must be embedded collective practice and norms for the transformation to be sustained. Leadership development programme {LDP} proposes novel approaches to teaching and learning, which emphasizes the practical involvement of participants. It is interaction and involve exercise and actual implementation of breakthrough project by teams that make difference in the lives of the target population. In this course leadership, concepts comprising of listening, conversation emotional intelligence, breakthrough initiative, gender and leadership, coaching and leadership, enrolment conversation and forming and leading teams will be taught.

**LAWS 501: JURISPRUDENCE AND LEGAL THEORY I**

**4 Credits**

This course is designed to familiarize students with essential ingredients of thinking about law at a high level of abstraction. It introduces elements of philosophy as they pertain to law, particularly the nature of jurisprudence and legal theory, law morals and religion, positivism, state and law, revolution and legitimation, the judicial process and fundamental legal concepts. The course also includes the general

approach to legal thought within the rubric of a society experiencing the pangs of re-birth and social transformation.

**LAWS 502: JURISPRUDENCE AND LEGAL THEORY II 4 Credits**

The aim of the course is to familiarize students with legal thought across the ages. Accordingly, the students would be acquainted with the various schools of jurisprudence including natural law from ancient times to the contemporary period, utilitarianism, historical and anthropological approaches, sociological jurisprudence, the pure theory, Marxism, realism and contemporary African legal thought.

**LAWS 503: COMPANY LAW I 4 Credits**

This course outlines the basic rudiments and disadvantages of sole proprietorship and partnership business vis-à-vis the corporate firm. It introduces the students to the mechanism of forming a company and the attendant issues of regulatory concern. The history of company law, various types of companies and the mechanism for the incorporation of companies, provisions of the Companies and Allied Matters Act 1990 (CAMA) and its prescriptions for the incorporation of companies; choice of name and capital requirements will be examined. The role, responsibilities and duties of promoters in setting up a company; the common law concepts of corporate personality and equivalent statutory provisions are also taught including the concepts of lifting the veil at common law and under statutory provisions. Rules of interpretation and alteration of the Memorandum and articles are considered along with the Rule of Ultra vires and the changes introduced by CAMA; company capital and various configuration of company capital; rules for alteration of capital by way of increase and also by a reduction and capital; rules of maintenance of capital as well as capacity of the company to enter into contracts and liability for corporate acts including pre-incorporation contracts are considered.

**LAWS 504: COMPANY LAW II 4 Credits**

This course examines company management and dealings in company securities; law on corporate administration: division of corporate powers between the members in general meeting and the board of directors; constitution of the board of directors; legal status of directors; appointment of directors, vacancies in the board, disqualification of directors and vacation of office as director. The fiduciary duties of directors are exhaustively examined in the light of statutory and common law principles. Company securities: types of company securities; distinction between equity and debt securities; modalities for the issue of shares; sale and payment for shares; forfeiture of shares; distinction between private issues and public issues; transfer and transmission of shares. The law and practice relating to winding-up and liquidations, amalgamations, mergers, take-over, acquisitions and reconstructions of companies are equally relevant. Finally, the law of partnership and the applicable laws; the concept of limited partnerships; rights and liabilities of parties, duties of partners; admission of members; determination of the partnership and applicable equitable rules for the winding up of partnerships as they are applicable to companies and their application to companies will be examined.

**LAW 590: RESEARCH PROJECT 4 Credits**

The student is to have approved for him a research topics at the beginning of the semester; and the student is expected under the supervision of a member of the academic staff to produce a well-researched work containing a minimum of 10,000 words (40 pages of quarto size) and a maximum of 15,000 words (60 pages of quarto size).

**LAWS 505: PUBLIC INTERNATIONAL LAW I 4 Credits**

This course serves as a comprehensive introduction to international law history and principles, using cases and policies (national and international) to demonstrate how the activities of states can be considered legal or illegal, and which activities may fall in the middle. Students will be expected to assimilate materials from textbooks, cases (municipal and international), and law review articles, some of which will be provided to them before the relevant lecture to enable them study ahead of class in order to enhance discussions and interaction during lectures. There will also be a monthly film series where students will watch films and documentaries with themes relevant to specific aspects of the international law curriculum and contemporary issues of international relevance, and have an opportunity to discuss important issues, points and observations raised in and by the films.

**LAWS 506: PUBLIC INTERNATIONAL LAW II**

**4 Credits**

The emphasis of the course is on selected area of international law such as the Law of Treaties; Diplomatic and Consular Law; International Protection of Human Rights; State Responsibility; The Law of International Institutions; Pacific Settlement of Disputes; The Law of Armed Conflict - Use of force under contemporary international law; *Jus ad bellum* vs. *Jus in bello*; International peacekeeping and peace enforcement; international humanitarian law in a changing world.

**LAWS 511: CONVEYANCING I**

**4 Credits**

This course familiarizes the student with the law relating to the transfer of legal estates and interest in land. It examines capacity of parties, the contract for the transfer of a legal estate or interest in land leases, mortgages, and assignments. It also deals with the transfer of title to land. The relevance of the study is examined in the light of the Land Use Act 1978.

**LAWS 512: CONVEYANCING II**

**4 Credits**

This course examines the contents of a Conveyance. It also considers settlements. The relevance of the study is examined in the light of the Land Use Act of 1978.

**LAWS 515: INDUSTRIAL LAW I**

**4 Credits**

The course focuses on the rudiments of basic employment contracts and the rights emanating therefrom. Sources of employment law are examined; the rights and obligations of parties at common law and under statute. Private employment contracts are distinguished from employments in the public sector particular with respect to the right to terminate an employment contract. Health and safety issues are examined in the context of contemporary developments in science and medicine. It concludes with issues of job security and workmen compensation for injuries sustained in the ordinary course of work.

**LAWS 516: INDUSTRIAL LAW II**

**4 Credits**

The course explores the legal regulation of industrial relations. It necessarily rest on the foundation of the contract of employment law examined in the first semester. Students are not encouraged to offer this course if they have not been in Industrial Law 1. Collective labour activities are examined in great details including in particular the formation of trade unions and the scope of their activities within constitutional and legal limits. The right to collective bargaining; right to information and the right to strike are examined from the constitutional, common law and statutory perspectives. Finally the student is exposed to the machinery for the settlement of trade disputes; jurisdictional issues of the appropriate courts are also examined.

**LAWS 517: SHIPPING AND ADMIRALTY LAW I**

**4 Credits**

The course is aimed at exploiting the legal problems posed by ships, shipping and the sea. The topics comprise of Admiralty jurisdiction; navigation and safety at sea; salvage, towage and wreck; rights of

seamen and maritime workers; marine pollution and control. It also deals with matters such as public regulations of shipping and navigation, admiralty jurisdictions. Specially, the course addresses Ownership and Registration: Qualification or the procedure for the registration of a ship, security of transactions i.e. ship mortgages and sale of ship.

**LAWS 518: SHIPPING AND ADMIRALTY LAW II**

**4 Credits**

This course deals with the legal regulation of movement of goods by sea e.g. Carriage of Goods by Seas Act. Including contracts and documents, types of charter parties; application of the Hague and Hamburg rules;

**RELS 521: RELIGIOUS LIBERTY**

**3 Credits**

This course focuses on the concept relating to the issue of religion as based on a moralistic outlook or way of life and its doctrinal perspective. It discusses the two major religions in Nigeria today Christianity and Islam. The course examines the provisions of the 1999 Constitution on freedom of religion, state patronage and its legal implications. Nigeria membership of OIC, provision for Sharia Court, Government approval for the creation of pilgrim welfare councils, Arabic signs on Nigerian currencies, financial support for the National Mosque and the Ecumenical Centre at Abuja, worshipping in the mosques and churches by judges to usher in New Legal Year, Severance of diplomatic relation with Israel over continued occupation of Arab land, Islamic adherents agitation for the shelving of the 'Gregorian Calendar' and the adoption of the Islamic calendar, the Seventh-day Adventists call for Saturday (worshipping day) as unsuitable for general elections, etc., are considered. Other obstacles to the practice of freedom of religion instruction in schools, exclusion of members of secret societies from the enjoyment of the freedom (S 38) and threat imposed by the criminal code, are also examined. The course also examines the genesis of religious conflict as arising from diversity of beliefs and irredentism. Comparative studies of various religious conflicts are also undertaken.

**LAWS 533: HEALTH LAW AND POLICY I**

**4 Credits**

This course introduces the student to the civil liability of physicians viz contractual liability and tortious liability. It highlights grounds of the physician liability, treatment *contra legem artis* (malpractice), duty of care, standard of skill, treatments and omissions of treatment, vicarious liability, casualty, damages. Treatment without the payment informed consent. Physicians duty of secrecy, Doctor/patient privilege - rules and exceptions. Civil liability with regard to new methods of treatment and experimentations. Medicine and Drugs-clinical trials of new medicines and drugs. Trans-sexual surgery, Organ and Tissue Transplants; transplantation liability with regards to artificial insemination by a donor, egg and ovary transplants, embryo transfer. Marriage and mental disorder, testamentary capacity.

**LAWS 534: HEALTH LAW AND POLICY II**

**4 Credits**

This course examines legal and policy issues affecting health care systems. It focuses on the organization and regulation of health systems, health professionals, manufacturers and distributors of food and drugs and their insurers. It reviews the rights of patients and their family to their health and to health care system. It promotes public health and the adoption of evidence based strategies for good health including rights relating to the beginning of life, the end of life, death and other human rights issues. It seeks to train students as potential law makers, legal counselors and policy makers in the health care sector to understand and challenge existing legal, policy and practices in the health care sector.

**LAWS 535: HUMAN RIGHTS AND CHILD AND THE LAW**

**4 Credits**

This course examines from a comparative approaches the nature and content of human rights and civil liberties under Nigeria law and International instruments. It deals with group rights, e.g. rights of women, children, aged, families, minorities, refugees, prisoners and the disabled (i.e., people with special needs). Relationship

between inherent rights and guaranteed rights; and in the case of the latter, the interrelationships of the rights provided under municipal and international law, in particular, the African Charter on Human and Peoples' Rights, and its status vis-à-vis other domestic legislation. It covers human rights and governmental administrative processes and administration of justice. Enforcement of human rights as well as the role of NHRC, Public Complaints Commission, African Commission on Human Rights and People's rights and the United Nations Commission on Human Rights will also be examined.

**LAWS 536: HUMAN RIGHTS AND CHILD AND THE LAW II 4 Credits**

This course covers the concept and meaning of a child, legal framework for children's rights; nature and types of children's rights to survival; development; participation; and protection. Rights of children in especially difficult circumstances: orphans and abandoned children; street children; refugee children; abused children; sexually and economically exploited children; children affected by HIV/AIDS pandemic; children with disabilities; trafficked children; teenage pregnancy; et cetera. Measure for preventing breaches of children's rights and identification of constraint to respect for and enforcement of the rights of the child; Strategies for enforcement of the right of the child: as well as participation by the child in matters affecting his/her interest; and, the establishment of a Child Right Information System.

**SCHOOL OF MANAGEMENT SCIENCES (SMS)**



***Prof. Johnson A. EGWAKHE***  
***DEAN***



***Felicia Owoade AYANLOWO***  
***SCHOOL OFFICER***

#### **DEAN'S SECRETARY**

Florence Ekwutosi NZENWATA	Confidential Secretary
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The School of Management Sciences is one of the three schools comprising the College of Management and Social Sciences created when the Old Babcock Business School was upgraded to a college in September 2015.

The School of Management Sciences is made up of the following departments:

- Department of Accounting
- Department of Finance
- Department of Information Resources Management
- Department of Business Administration and Marketing

#### **Vision Statement**

To be a world class trainer of strategic and innovative managers with enduring of morals.

#### **Mission Statement**

Creating wealth and positively impacting society by developing managerial resourcefulness through innovative research, service delivery, and Christian-based education.

#### **Philosophy**

The School of Management Sciences developed all its programmes on the basis of impeccable moral education using the Adventist Christian heritage of God as the foundation of all knowledge. The school believes in research and sound pedagogy as the ultimate influence in the future of education and industrial



development of any society. As a result, the school adopts a mixture of classroom work, field research and hands-on practicum in the design of all its programmes. In addition, globalization, institutional and scholarly peer linkage programmes as well as Information and Communication Technology (ICT) play central role in our curricular contents and course development.

### **Programmes Offered**

The School of Management Sciences runs the following programmes/Courses:

#### **Department of Accounting**

- B.Sc Accounting (Integrated with ACA and ACCA)

#### **Department of Banking and Finance**

- B.Sc Finance

#### **Department of Information Resources Management**

- B.Sc Information Resources Management (BIRM)

#### **Department of Business Administration and Marketing**

- B.Sc Business Administration
- B.Sc Marketing

### **Duration of Programmes**

All our baccalaureate programmes are 4 years in duration, however, some professional programmes such as ACA, ACCA, CITN, CIBN may require additional one year residency (after the B.Sc) to complete.

Details of these can be found in the departmental programmes guide

### **Admissions Requirements**

- B.Sc courses: Minimum of 5 Credit passes in WASCE, GCE etc., including English Language, Mathematics and Economics for Accounting, Business Administration, Marketing, and Finance courses, while there may be variation for courses like IRM.

**DEPARTMENT OF ACCOUNTING**



**Festus Fola ADEGBIE, Ph.D**  
*Head of Department*

**LIST OF STAFF**

Festus F. ADEGBIE, Ph.D., MPhil FCA,FCIB,FCTI, MBA	Assoc. Prof. of Accounting
Rufus I. AKINTOYE, Ph.D., FCA, FCTI, M.Sc., MBA	Prof. of Accounting & Finance
Patrick E. ENYI, PhD, FCA, MBA, RFC	Prof of Accounting
Sunday A. OWOLABI, PhD, FCA, M.Sc.	Prof. of Accounting
Luke N. ONUOHA, PhD, DBA, FCA, MBA	Prof. of Accounting
Samuel O. DADA, Ph.D., FCA, MBA	Assoc. Prof. of Accounting
Appolos N. NWAOBIA, PhD, FCA, ACTI, MBA	Assoc. Prof. of Accounting
Adegbemi O. ONAKOYA, PhD, FCA, MSc	Associate Professor
Samuel A. OLAOYE, PhD, FCA, M.Sc.	Senior Lecturer, Accounting
Olajire A. ODUNLADE, PhD, FCA, M.Sc.	Senior Lecturer, Accounting
Tunji T. SIYANBOLA, PhD, FCA, MBA, M.Sc.	Senior Lecturer, Accounting
Jacob A. OSUNDINA, PhD, ACA	Senior Lecturer, Accounting
Monisola, E. ALAO, PhD, CNA	Senior Lecturer,s Accounting
Grace A. OGUNDAJO, PhD, ACA, ACTI, MBA	Senior Lecturer, Accounting
Jumoke JAYEOBA, PhD, ACA, ACTI, M.Sc.	Lecturer I
Ayodeji T. AJIBADE, PhD, ACA, ACTI, CGMA, M.Sc.	Lecturer I
Jerry D. KWARBAI, PhD, ACA, ACTI, M.Sc.	Lecturer II
Oluwatoyosi T. OLURIN, FCA, MBA, B.Sc.	Lecturer II
Chituru N. ALU, PhD, M.Sc.	Lecturer II
Ayooluwa O. AJAYI_OWOEYE, PhD, M.Sc.	Lecturer II
Ifayemi M. OLAYINKA M.Sc., ACA,	Lecturer II
Babatunde, OWOLABI, M.Sc.	Assistant Lecturer

**PHILOSOPHY OF THE ACCOUNTING PROGRAMME**

The philosophy of the Accounting programme is to strengthen the intellectual capacity of students in the accounting discipline with high ethical and Christian values so as to equip them with adequate knowledge needed for an understanding and analysis of the issues in the private and public sector of Nigerian economy, while developing entrepreneurial spirit to create employment and add value to the global economy as a whole.

**VISION STATEMENT**

The vision of the department is **to produce world class accounting professionals and researchers** through cutting edge research **with spiritual alertness and the best of morals and proven integrity.**

**MISSION STATEMENT**

To continue to motivate our workforce and empowering them through continuous development in contemporary issues in Accounting and Allied Matters, capable of creating expert in them for excellent service delivery. In addition, recruitment of highly qualified professionals to bridge necessary academic gaps while continuing to strengthen our collaboration with high impact Accounting and Finance environment globally.

**OBJECTIVES**

The objectives of the Accounting programme are: -

1. To equip and expose the students of the department to programmes in Accounting and allied disciplines.
2. To develop the students' sense of holistic judgment, and ability to prepare financial Statements and reports, analyze financial numbers in the decision process, and develop investment policies using generally acceptable accounting standards in the public and private sector of the global economy.
3. To create appropriate environment necessary for the students' intellectual development and develop the spirit of self-reliance in them.
4. To develop Students' ability for independent research work through library research, seminar, fieldwork and computer application in our Laboratory.
5. To enable the graduates of the department like others, within the School of Management Sciences fit into various sectors of the economy. The programme is such that our graduates would serve as Accountants, Auditors, Tax experts, Directors, Finance Managers, Policy Analysts, Lecturers, Investment analysts and Planning/Budget Officers,
6. To produce graduates that can fit into Postgraduate Programmes of MSc, MPhil and PhD in Accounting and allied fields

### **ADMISSION REQUIREMENTS**

Candidates must have obtained five (5) credits at not more than two sittings in five subjects including English Language, Mathematics, Economics, and any two subjects at SSCE, GCE and other recognized O'Level examinations of recognized bodies. A pass in Economics may be considered provided the candidate has a credit pass either in accounting or Commerce. For Direct Entry into the 200L, in addition to the O'Level requirements above, candidates must possess passes in 3 WAEC/GCE/Cambridge Advanced Level (A'Level) Certificate with a Minimum of C, which must include Accounting, Mathematics and Economics. In addition ATS 3/ATSWA 3/Fundamental Level of Professional Examination/ACCA passes in F1, F2,F3,F4/OND-Minimum of Upper Credit/HND-Minimum of Lower Credit may be admitted into 200L of our accounting programme

### **MINIMUM REQUIREMENTS FOR GRADUATION**

- A. A minimum of 93 credits of Departmental Courses.
- B. A minimum of 97 credits in courses outside the department.
- C. Complete, report and defend a research project supervised by a staff Project Supervisor.

A minimum of 190s credits is required before a student could graduate from the Accounting programme. For the purpose of the minimum standards in Accounting, the courses are categorized into two:

1. General education courses
2. Core courses

A core (compulsory) course must be taken and passed by all students before they can be awarded a degree. Cognate courses are to be taken from other departments. For each course specified, the categories to which it belongs and weight (credits) attached are indicated. All courses are listed by the year in which they could be offered on the program

A credit of a course is defined as one contact hour of lecture/tutorial/seminar or three practical per week in a semester of 15 weeks.

<b>LEVEL</b>	<b>GENERAL EDUCATION COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON- DEPARTMENTAL COURSES</b>	<b>TOTAL</b>

100	19	06	19	44
200	13	15	20	48
300	09	33	8	50
400	09	39	0	48
<b>TOTAL</b>	<b>50</b>	<b>93</b>	<b>47</b>	<b>190</b>

\*Professional level. The credit units will not count in the minimum requirements for the award of B.Sc. degree.

### **Programmes**

The department of Accounting runs the following academic programmes:

1. B.Sc Degree (in conjunction with ICAN) 4 years.
2. ACA-B.Sc Degree (in conjunction with ICAN) 2 years full time
3. M.Sc Degree in Accounting (Minimum of 3 semesters for regular students and 6 semesters for elongated students).
4. MPhil Degree in Accounting (minimum of 4 semesters)
5. PhD Accounting (minimum of 6 Semesters)

### **SUBDIVISION OF COURSES INTO LECTURE, TUTORIAL/PRACTICAL**

All students in the Babcock Business School should take a minimum load of 16 credits per semester. It is important that tutorials be held for students in small groups. There must be at least one tutorial to two lecture hours. Thus a course of one credit should comprise of 12 hours of lecture and 6 hours of tutorial or seminar.

### **B.Sc. (Hons.) ACCOUNTING (INTEGRATED WITH ACA AND ACCA) 100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use Of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-

GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131, 132	Communication in English 1, II	2	2
GEDS 134	Nigerian People in a Global Culture	-	2
<b>CORE COURSES</b>			
ACCT101	Principles of Accounting I	3	-
ACCT102	Principles of Accounting II	-	3
BSAD101	Principles of Management I	3	-
BSAD102	Principles of Management II	-	3
ECON101	Principles of Economics I	3	-
ECON102	Principles of Economics II	-	3
BSAD 111	Business Mathematics I	2	-
BSAD 112	Business Mathematics II	-	2
PLSC 102	Citizenship and Elements of Government	-	3
<b>TOTAL (44 Credits)</b>		<b>21</b>	<b>23</b>

**B.Sc. (Hons.) ACCOUNTING (INTEGRATED WITH ACA AND ACCA)  
200 LEVEL COURSES**

200 LEVEL COURSES			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environment and Sustainable Development	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2

	<b>CORE COURSES</b>		
ACCT 201	Financial Accounting I	3	-
ACCT 202	Financial of Accounting II	-	3
ACCT 203	Cost Accounting I	3	-
ACCT 204	Cost Accounting II	-	3
ECON 253	Principles of Micro-Economics	3	-
ECON 254	Principles of Macro-Economics	-	3
LAWS 213	Principles of Law	3	-
BSAD 231	Statistics for Management I	3	-
BSAD 232	Statistics for Management II	-	3
BSAD 211	Business Communication	3	-
ACCT 230	Principles of Auditing	-	3
FNCE 210	Principles of Finance	-	<b>3</b>
	<b>TOTAL (49 Credits)</b>	<b>25</b>	<b>24</b>

**B.Sc. (Hons.) ACCOUNTING (INTEGRATED WITH ACA AND ACCA)  
300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 270	Peace and Conflict Reconciliation	2	-
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
ACCT 301	Advanced Financial Accounting I	3	-

ACCT 302	Advanced Financial Accounting II	-	3
ACCT 303	Management Accounting I	3	-
ACCT 304	Management Accounting II	-	3
ACCT 313	Accounting Theory	3	-
ACCT 315	Operations Research/Analysis for Business Decision	3	-
ACCT 318	Audit and Assurance I	-	3
LAWS 323	Corporate Law I	3	-
LAWS 324	Corporate Law II	-	3
ACCT 326	Computer Application and Accounting Packages I	-	3
ACCT 328	Principles of Taxation	-	3
ACCT 341	Management Information Systems	3	-
ACCT 362	Accounting Research Methods	-	3
BSAD 310	Introduction to Business	-	2
	<b>TOTAL (50 Credits)</b>	<b>25</b>	<b>25</b>

**B.Sc. (Hons.) ACCOUNTING (INTEGRATED WITH ACA AND ACCA)  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
GEDS 280	Leadership Skills	2	-



	<b>CORE COURSES</b>		
ACCT 400	International Accounting Practices	3	-
ACCT 406	International Corporate Finance	-	3
ACCT 409	Business Policy and Strategy	3	-
ACCT 420	Public Sector Accounting and Finance	-	3
ACCT 423	Computer Applications and Accounting Packages II	3	-
ACCT 433	Taxation I	3	-
ACCT 434	Taxation II	-	3
ACCT 441	Financial Management I	3	-
ACCT 444	Financial Management II	-	3
ACCT 451	Audit and Assurance II	3	-
ACCT 462	Financial Reporting and Ethics of Accounting I	-	3
ACCT 490	Research Project	-	6
	<b>TOTAL ( 48 Credits)</b>	<b>24</b>	<b>24</b>

**B.Sc./ACA CONVERSION ACCOUNTING PROGRAMME  
200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	<b>0</b>	<b>0</b>
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-

GEDS 260	Environment and Sustainable Development	2	-
GEDS 280	Leadership Skills	2	
	<b>CORE COURSES</b>		
ACCT 201	Financial Accounting I	3	-
ACCT 202	Financial Accounting II	-	3
ACCT 203	Cost Accounting I	3	-
ACCT 204	Cost Accounting II	-	3
ACCT 230	Principles of Auditing	-	3
BSAD 231	Statistics for Management I	3	-
BSAD 232	Statistics for Management II	-	3
FNCE 210	Principles of Finance	-	3
ECON 253	Principles of Micro-Economics	3	-
ECON 254	Principles of Macro-Economics	-	3
LAWS 213	Principles of Law	3	-
	<b>TOTAL (46 Credits)</b>	<b>24</b>	<b>22</b>

**B.Sc./ACA CONVERSION ACCOUNTING PROGRAMME  
300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		

ACCT 301	Advanced Financial Accounting I	3	-
ACCT 302	Advanced Financial Accounting II	-	3
ACCT 303	Management Accounting I	3	-
ACCT 304	Management Accounting II	-	3
ACCT 315	Operations Research/Analysis for Business Decision	3	-
LAWS 323	Corporate Law I	3	-
LAWS 324	Corporate Law II	-	3
ACCT 313	Accounting Theory	3	-
ACCT 341	Management Information Systems	3	-
ACCT 318	Audit and Assurance I	-	3
ACCT 328	Principles of Taxation	-	3
ACCT 362	Accounting Research Methods	-	3
BSAD 310	Introduction to Business	-	2
ACCT 326	Computer Application and Accounting Packages I	-	3
	<b>TOTAL (48 Credits)</b>	<b>23</b>	<b>25</b>

**B.Sc./ACA CONVERSION ACCOUNTING PROGRAMME  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 440	E-Project Management and Simulation	2	-
	<b>CORE COURSES</b>		
ACCT 400	International Accounting Practices	-	3

ACCT 406	International Corporate Finance	-	3
ACCT 409	Business Policy and Strategy	3	-
ACCT 420	Public Sector Accounting and Finance	-	3
ACCT 423	Computer Applications and Accounting Packages II	3	-
ACCT 433	Taxation I	3	-
ACCT 434	Taxation II	-	3
ACCT 441	Financial Management I	3	-
ACCT 444	Financial Management II	-	3
ACCT 451	Audit and Assurance II	3	-
ACCT 462	Financial Reporting and Ethics of Accounting I	-	3
ACCT 490	Research Project	-	6
	<b>TOTAL ( 46 Credits)</b>	<b>22</b>	<b>24</b>

**B.Sc. (Hons.) ACCOUNTING (INTEGRATED WITH ACA AND ACCA)  
COURSE DESCRIPTIONS**

**ACCT 101: PRINCIPLES OF ACCOUNTING I**

**3Credits**

History and development of Accounting, the nature and scope of accounting, the role of accounting, users of financial statement (the business organization, its stakeholders and external environment); introducing the International Financial Reporting Standards (IFRS), the accounting functions and its relationship with the information system of organizations, accounting procedure and systems, Basic documentation process, double entry book-keeping system, the trial balance, Accruals, Pre-payments and adjustments, Books of prime entry and recording in the ledger, classification of expenditure entry and recording in the

ledger, classification of expenditure between capital and revenue items as in Revenue recognition and Measurement (IAS 18), methods of recording accounting data; manual and mechanical, bank reconciliation statement, preparation of debtors and creditors statement. Accounting for fixed assets acquisition; depreciation, disposal and fixed assets schedule, extended trial balance and correction of errors, using suspense account, extended trial balance and correction of errors using suspense account and journal, final account of sole trader, business organizational structure, functions and governance, accounting and reporting systems, control and compliance.

**ACCT 102: PRINCIPLES OF ACCOUNTING II 3 Credits**

(Students are expected to have passed Principles of Accounting I before taking this course).

Reserves and provisions, payroll accounting, preparation of final accounts duly taken cognizance of the following: Introduction to International Reporting Standards, Presentation of Financial Statements (IAS 1 and IFRS 1), manufacturing, trading, profit and loss accounts, balance sheet for sole-proprietorship; partnership and limited liability companies, partnership agreement, preparation of final accounts, preparation of income and expenditure accounts and balance sheet or statement of affairs for non-profit making organization. Preparation of final accounts from incomplete records; simple joint venture accounts and professional ethics in accounting and business.

**BSAD 101: PRINCIPLES OF MANAGEMENT 1 3 Credits**

Define and explain the nature of Business, understand the nature of Business Environment and its relevance for policy decisions to be made by the management of any organization. The basic concepts, principle and techniques of management. Apply the concept, principles and techniques in the solution of management problems.

**BSAD 102: PRINCIPLES OF MANAGEMENT II 3 Credits**

(Students are expected to have passed Principles of Management I before taking this course). Examine the four elements of the management process: planning, organizing, leading, and controlling. Identify principles to assist managers in adapting these elements to fit a variety of situations and enterprises; Reviews methods to improve the quality of managerial decisions in small and large, profit-seeking and not-for-profit organizations. Topics include management as a discipline, alternative organizational models, effective decision-making, mission and strategy, operational strategy, and adaptive planning.

**ECON 101: PRINCIPLES OF ECONOMICS 1 3 Credits**

An introduction to the various issues in economics, the nature of economics science, the methodology of economics, major areas of specialization in economics, stressing historical development of ideas, elementary principles of micro and macro- economics, current issues of interest in economics and Probable future development.

**ECON 102: PRINCIPLES OF ECONOMICS II 3 Credits**

(Students are expected to have passed Principles of economics I before taking this course). Knowledge of basic concepts of economics, principles, concepts and tools for economic analysis. Knowledge of the structure and functioning of economic institutions and various economic systems; national income accounting; the functions of money and policies for controlling inflation, The Regulatory Authorities (CBN; NDIC) requirements for commercial Banks Assessment of various services offered by Banks. Cheques clearing system in Nigeria, the bank as catalysts in economic development. The role of Chartered Institute of Bankers of Nigeria and Financial Institutions Training Center in manpower development for the financial industry. Importance of Bankers' Committee and the Monetary Circulars to the banking industry Importance of the Bankers' Committee and the Monetary Circulars to the banking industry.

**BSAD 111: BUSINESS MATHEMATICS I****2 Credits**

Introduction to set Theory with applications to business related problems. Indices and Indicial equations with graphs; Algebraic Expressions. Polynomials, Equations and Inequalities with applications. Coordinate geometry of lines. System of linear equations with applications. Sequences and series with applications; Simple and compound interests. Present value. Annuities, amortization. Introduction to matrices and applications. Elementary Operations on matrices. Determinants.

**BSAD 112: BUSINESS MATHEMATICS II****2 Credits**

(Students are expected to have passed Business Mathematics I before taking this course). Functions of real-variables; concepts and definitions; limit and continuity of functions; derivatives and Techniques of finding derivatives with applications to business problems; increasing and decreasing functions with applications; extreme values and applications; integration and techniques with applications. Function of several variables; derivatives and applications.

**PLSC 102: CITIZENSHIP AND ELEMENTS OF GOVERNMENT 3 Credits**

Nature of politics: society and Social organization: the state. The Problem of the law; constitution and constitutionalism; political ideology. The classical heritage, Plato, Aristotle, Stoicism and Pax romana: Revolt, Towards the Mass Man. Organs of Government (National Government Institutions); public administration; Political Parties and pressure groups; public opinion and propaganda; elections; international oer.

**ACCT 201: FINANCIAL ACCOUNTING I****3Credits****(Pre-requisite: Principles of Accounting I and II)**

Advanced partnership accounts, admission and retirement, partners change of interest including valuation and treatment of goodwill and revaluation, assets amalgamation and absorption, conversion of company in to partnership, dissolution of partnership, including piecemeal realization, distribution, conversion of partnership into limited company.

**ACCT 202: FINANCIAL ACCOUNTING II****3 Credits**

Students are expected to have passed Financial Accounting I before taking this course. Focus on the following areas: Company accounts, formation, issue and redemption of shares and debentures; final account for internal use & publication, including cash flow/fund flow statement. This is expected to duly introduce the International Financial Reporting Standards (IFRS). Five year financial summary, value added statement. Should include statutory requirement of company accounts in respect to each area such as Accounting for Intangibles (IAS 38), Inventory Management and Accounting (IAS 2) and Accounting for Property, Plant & Equipment and Investment Properties (IAS 16); miscellaneous accounts; joint venture, royalties, consignment, farmers (including Accounting for Biological Assets and Agricultural Produce, IAS 41) ,Goodson Sales or return, departmental accounts, branch accounts (Home/Local branches), solicitors accounts, voyage, underwriting, cooperative Societies accounts.

**ACCT 203: COST ACCOUNTING I****3Credits**

A review of the principles and objective (in term of users) of Cost Accounting information, objectives and purpose of Cost Accounting, Cost Accounting terminologies; cost Centre, Cost Units, Historical Cost Standard Cost, Average marginal cost etc., cost behavior and estimation/segregation, the elements of cost and its classification and coding including ABC pareto 80/20, Accounting for cost elements; materials , labor and overheads, preparation and presentation of cost accounting information for various users, new

approaches to cost accounting; Just In Time (JIT), Total Quality Management (TQM), Activity Base Costing (ABC).

**ACCT 204: COST ACCOUNTING II**

**3Credits**

**(Pre-requisite: Cost Accounting 1)**

Cost methods; process costing (detailed treatment of joint and by products as well as spoilage, normal and abnormal losses and equivalent credits), Job Costing (including contract and batch costing incorporating IAS 11), operation costing e.g. service costing, costing techniques; marginal costing and absorption costing compare with simple decision making, Break-even analysis and cost volume profit analysis, Double entry accounts for cost control integrated and interlocking costing systems, standard costing (simple variance analysis)

**BSAD 211: BUSINESS COMMUNICATION**

**3Credits**

A study and application of the modern practices in oral and written business communications, accuracy in grammar, spelling and punctuation and the writing of well-knit sentences and clear paragraphs are taught as means of effective expression in business letter writing, any topical issues?

**LAWS 213: PRINCIPLES OF LAW**

**3Credits**

A course designed to study the nature and social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations. The formation and constitution of business organization, agency law, company formations, share capital, loan capital, capital and the financing of companies. Capital maintenance and dividend law.

**ACCT 230: PRINCIPLES OF AUDITING**

**3 Credits**

All International Auditing Standards (ISA) as it relates to the following:

The nature and purpose of an audit: the role of internal audit: the role of internal audit, external audit, reporting responsibilities appointment, dismissal, resignation. The concepts of “true and fair”, “independence of auditors”. Relationship of auditors to directors, shareholders and other financial statements’ users.

Audit planning: initial review of accounting review of accounting system, evaluation of internal control system and procedures, development of an audit programme.

Audit procedures: vouching of accounts, verification of assets, sampling techniques, flow charting, stock taking procedures, letter of representation.

The audit report: statutory requirements for audit report (Companies Act 1990). Types of audit report; professional requirements, duties and powers under statute and case law, independence and ethical considerations.

**ECON 253: PRINCIPLES OF MICRO-ECONOMICS**

**3Credits**

Microeconomics theory, problem of scarce resources and allocation of resources in product and factor markets with application to Nigerian and other economies, concept of equilibrium, disequilibria, partial and general equilibria analyses. Demand and supply theory. Concept of coefficient and interpretation Applications.

**ECON 254: PRINCIPLES OF MACRO-ECONOMICS**

**3Credits**

**(Pre-requisite: Principle of Micro-Economics 1)**

Macro-economic theory, The concept of National Income, Gross Domestic Product (GDP), Gross National Product (GNP) and Net National Product (NNP), National income accounting, the classical system, the

Keynesian system, the monetarist system, domestic economic stabilization, monetary and fiscal policies, price control and inflation.

**FNCE 210: PRINCIPLES OF FINANCE**

**3Credits**

This course deals with the Investment decisions of the firm under condition of uncertainty, The problems of mutually exclusive projects, Capital Rationing and inflation, the measurement usefulness of cost of capital and leverages. Working capital management as it includes: inventory analysis, cash management, debtors' management, etc. The relevance of dividend decision for the firm. Students will also be introduced to the concept of capital market efficiency and the pricing of capital asset.

**BSAD 231: STATISTICS FOR MANAGEMENT I**

**3Credits**

Handling statistical, collection of statistical data, primary and secondary data, discrete and

of data-mail, questionnaire, interview, observation, telephone(advantages and disadvantages of each method), sampling methods simple random strategies, systematic quota multi stage cluster (advantages and disadvantages), errors, accuracy and approximation, types of errors: absolute relative, biased, unbiased, laws of error including simple calculation of errors, sum, difference, product and quotient, tabulation and classification of data tabulation of data including various bar charts, pie charts, o give, frequency/polygon, histogram, Z-charts, Lorenz curve. Measures of variation: range, mean, standard deviation, coefficient of variation, quartiles, quartiles deviation and skewness (all of both grouped and ungrouped data) estimation of quartiles and percentiles from O give.

**BSAD 232: STATISTICS FOR MANAGEMENT II**

**3Credits**

**(Pre-requisite: Statistics for Management I)**

Measures of relationships; correlation (linear) meaning and usefulness of correlation, scatter diagram, nature of correlation (positive, zero, negative), meaning of correlation co-efficient and its determination and interpretation, rank correlation such as spearman's rank correlation coefficient, coefficient of determination(meaning and interpretation), regression analysis (linear) normal equation and determination of regression line, interpretation of regression constant and regression coefficients, use of regression line for estimation purposes.

Time series analysis: meaning of time series, basic components, methods for measuring trend, i.e. graphical, moving averages, least square, semi average, methods of determining seasonal indices i.e. average percentage, moving average, link relative, ratio to trend and smothering.

Index Numbers: meaning, problem associated with construction of index numbers, un-weighted index, i.e. simple aggregative index, mean of price relatives, weighted index numbers, e.g. use of Laspayre, Paasche, Fisher and Marshall Edge. Worth Probability: definition of probability, measurement (addition and multiplication law) applied to mutually exclusive independent and conditional events), mathematical expectation, permutation and combination, probability distribution e.g. Binomial, Poisson, normal and their applications in business (use of normal tables should be emphasized). Estimation and significance testing: confidence interval meaning, confidence interval for mean and proportion, meaning of hypothesis, type I and type II errors, level of significance, test concerning means and proportion including small samples.

**ACCT 301: ADVANCED FINANCIAL ACCOUNTING I**

**3Credits**

**(Pre-requisite: Financial Accounting II)**

Interpretation and analysis of financial statements, treatments of taxation in accounts (IAS 12), Accounting principles and practices for specialized organizations (IAS 1; IFRS 4); Bank, insurance



accounts (IFRS 4), contracts accounts (IAS 11), Hire purchase containers, accounts, investment accounts (IAS 16), building society and unit trust accounting, pension and provident fund accounts (IAS 19 & 26), society and unit trust operations foreign branches (IAS 21), advanced dissolution of partnership, piecemeal realization, merger/amalgamation, absorption.

### **ACCT 302: ADVANCED FINANCIAL ACCOUNTING II**

**3Credits**

**(Pre-requisite: Advanced Financial Accounting I).**

Theoretical background of group accounts, preparation of consolidated accounts, elimination of intra-group balances and profit on intra-group transaction, treatment of minority interest, and cost of control. Accounting problems of group companies including multinationals. The provision of the IFRS relating to Business Combination (IAS 27, 28, IFRS 3, 10 & 11); also, Associate companies, Accounting for Bankruptcies and liquidation, Accounting for petroleum operation.

### **ACCT 303: MANAGEMENT ACCOUNTING I**

**3 Credits**

**(Pre-requisite: Cost Accounting I and II)**

Differences between management accounting, cost accounting and financial accounting, cost classification and estimation techniques, cost volume analysis (CVP/BEP) Marginal Costing application (Decision making), marginal costing versus absorption costing, transfer pricing, system, Economic order quantity (EOQ). Specialist cost and management accounting techniques, target costing, life-cycle costing, throughput accounting, environmental accounting- discussing the issues business face in the management of environmental cost.

### **ACCT 304: MANAGEMENT ACCOUNTING II**

**3 Credits**

**(Pre-requisite: Management Accounting I)**

Budgetary system and controls including operational budget, cash budget, profit and loss accounts budget, balance sheet, capital budgeting and expenditure control, Responsibility accounting, system e.g. responsibility areas like cost centers, investment centers, profit centers, Performance measurement; overview, application monitoring performance and reporting, performance evaluation in a divisionalized organization, standard costing; advanced variance, working back variances, operational and planning variances, control ratios and profit analysis, the use of models in decision making; application research and statistical and planning e.g. linear programming, PERT, learning curve, decision tree. Any other topical issue? Performance management systems, measurement and control, the scope of performance management, management reports, sources of management information, performance analysis in not-for-profit organizations and the public sector.

### **ACCT 313: ACCOUNTING THEORY**

**3 Credits**

Foundations of Accounting Theory (Nature, History, Role and Development of Accounting Theory); Historical Background of Accounting Profession in Nigeria viz: Pre-Institute of Chartered Accountants of Nigeria Period; The Institute of Chartered Accountants of Nigeria; The Nigerian Accounting Standards Board; Association of National Accountants of Nigeria; Source of Accounting Standards in Nigeria; Statement of Accounting Standards (SAS); International Financial Reporting Standards (IFRS); Research Perspectives in Accounting; Events, Predictive and Behavioral Approaches. **Conceptual consideration in Financial Reporting**, Objectives of Financial Reporting, Developing a Financial Reporting Framework, Purpose of Financial Reporting. **Financial Reporting Concepts considering provisions of the IFRSs:** Value & Income Measurement and Capital maintenance - Revenues, Expenses, Gains, Losses, Criteria for selection of Income Measurements (IAS 18). **Current Assets and Current Liabilities**, the objectives of assets and liabilities classification, Working Capital, Current assets measurement. **Fixed Assets and their Valuation**, Nature of Fixed Assets, Concepts of Depreciation, Intangible Assets – Nature, Characteristics,

Repairs/Replacement versus Depreciation, and Evaluation of various Depreciation Methods. **Measurement of Stock**, Nature of Stock, Objectives of Stock/Inventory Measurement (IAS 2), Determination of Stock, Methods of Stock Valuation.

### **ACCT 315: OPERATIONS RESEARCH/ANALYSIS FOR BUSINESS DECISION      3 Credits**

Introduction; main stages of an Operational Research (OR) Project, relevance of operational research in business decision theory e.g. mini max criterion, mini max and Maximum regret criterion, expected value, linear programming; linear programming (LP) as a source allocation tool assumption of LP model, solving linear programming problems by graphical method only, determination and relevance of dual or shadow costs.

Network Analysis; Critical path analysis (CPA) and Programme Evaluation and Review Techniques (PERTS), drawing the network diagram, meaning of critical path and how to determine it and its duration, calculation floats of items, replacement analysis; replacement of items that wear gradually, replacement of items that fail suddenly. Transportation model; nature of transportation problems, methods for solving transportation problem e.g. Northwest corner rule, least cost, Vogel's approximation, queuing model; definition of queue, classes of queues, simple queue and its characteristics, simple queue formulae excluding derivation, applications of queuing model in business. Markov process; definition of Markov process, meaning of transition matrix and its formulation, equilibrium or long-run situation for Markov process. Any other topical issue?

### **ACCT 318:                      AUDIT AND ASSURANCE I    3 Credits**

Assurance and Assurance Engagements: Meaning of assurance, assurance provided by audit viz review assurance, elements of assurance engagement. International standards on Auditing and Assurance on Financial statements. The role of audit standards, the process of issuing auditing standards/responsibility for standards. Due process- Producing a new standard, types of standards and application, assurance on internal controls, Corporate social responsibility and sustainability reports. Difference between the external auditor and the internal audit function. The scope of the internal audit function and outsourcing the internal audit function.

Internal Audit: Purpose and Benefits of internal audit, Independence of IAS and other associated problems. Risk management, internal versus external audit, Operational internal audit, other internal audit assignments, Internal audit reports, regulations and ethics of internal audits, internal audit outsourcing.

Planning and risk assessment,

Audit evidence and sampling,

Audit documentation,

Internal controls.

### **LAWS 323:                      CORPORATE LAW I    3 Credits**

Company law; nature and types of companies, formation of companies memorandum and association, prospectus, share capital and debenture, ultra vires doctrine, members, meeting and resolutions, directors, secretary and secretarial practice auditor statutory books, profits available for distribution, holding and subsidiary companies, powers and duties of liquidators and receivers, acquisition, mergers and takeover bids as contained in the company's and Allied matters Act 1990 as amended, partnership; the nature and types of partnerships, general and limited partnership; the nature and types of part of partnerships, general and limited partnership, the partnership Deed, right and duties of partners, and third parties, dissolution of partnership, any topical issue. Employment law: contract of employment, dismissal and redundancy, governance and ethical issues relating to business corporate governance, fraudulent and criminal behavior.

### **LAWS 324: CORPORATE LAW II 3 Credits**

Banking, negotiable instruments exchange controls and insurance ;the relevance of common law and statutory rules and the general practices of the following issues concerning the business of banking, negotiable instruments, exchange controls and insurance in Nigeria: the relationship between banker and customer, the general provisions in the banks and other financial institutions Decree No. 25 of 1991, the powers and duties of the Central Bank of Nigeria and of Nigeria Deposit Insurance Corporation (NDIC), the Bills of exchange Act 1990 (ap 35 with reference to definitions and essential of a valid bill acceptance, delivery, inchoate instruments, negotiation and negotiability, duties of the holder and liability of parties, discharge of a bill, Cheques and other bills, crossed Cheques, protection of bankers, promissory notes, the present exchange control regime the money laundering Decree 1995, the insurance decree 1997. Nature of insurance: indemnity and non-indemnity contracts, principles of insurance, insurable interest, utmost goodwill, misrepresentation conditions and warranties, subrogation and contribution, assignment of policies, Trusteeship, Executorship and Bankruptcy laws, the appointment, duties obligations, accounts and termination trusts, wills and letter to administration, devolution of property, power and duties of executors and distribution of estate, the provisions of the bankruptcy Act 1979 relation to Acts of Bankruptcy, issue of receiving orders, composition and schemes of arrangement, adjudication and discharge, appointment and powers of official receiver and trustee in bankruptcy, property available, proof of debt, statement of affairs and deficiency account, any topical issue. **(Pre-requisite: Corporate Law I)**

### **ACCT 326: COMPUTER APPLICATIONS AND ACCOUNTING PACKAGES I 3 Credits**

This course involves practical use of various software to solve accounting and finance problems in the business and industrial environment. Different types of accounting packages; Independent and integrated accounting software, Off-the-shelf packages, customized or be-spoke accounting packages, Accounting software as part of Enterprise Resource planning (ERP) and Malicious software for the benefit of data and information security in the business environment. This course introduces students to the use of various accounting and audit software such as Excel, Peachtree, Sage, QuickBooks, etc. to prepare financial statement. Hands on practice on preliminary aspects such as Opening of a company, creating company's profile, creating chart of accounts, how to create customers, how to create vendors, how to create employees, how to create customers. Account Payable: How to raise a purchase order, applying to purchase order number and applying to purchases, applying to invoice and applying to expenses, how to raise a vendors' credit memo (Return outwards).

### **ACCT 328: PRINCIPLES OF TAXATION 3 Credits**

Taxation system of income tax administration: structure and procedures, returns assessments, appeal, postponement, collection; with reference to all necessary legislations. Distinction between the taxation of income and the taxation of the capital. Personal income tax: the law and practice of income tax relating to individuals, exemptions, settlements, trusts and estates. Partnership assessments, treatments of losses, computation of assessable income; commencement and cessation of trade or business. Company Tax the principles and scope of company tax. The small company provisions including definitions, computation and

exemptions. Inheritance tax: its scope, basic principles of computing transfer value, the liabilities arising on chargeable lifetime transfers and on the death of individual payment of inheritance tax. Notional insurance contributions.

#### **ACCT 341: MANAGEMENT INFORMATION SYSTEMS**

**3 Credits**

The nature, source and purpose of management information, Introduction and Fundamentals of data processing, brief history and conventional data, processing methods manual methods and mechanized methods, classification of systems and their relative merits, closed loop, open loop system and systems, computer and data processing, evolution of the computer and the computer system, input, output and central processing unit, hardware and software, introduction to computer programming languages used in business(COBOL,FORTRAN, BASIC, etc.). Electronic data processing (EDP) methods, batch processing, real time online processing and the management of EDP, Business systems, hierarchical structure of organizations, the sub- optimization issue, data processing and Management Information System (MIS); the organization of MIS including the use of mechanical and electronic accounting machines, flow charting and the principles of systems design, uses of information generated for financial reporting and control, e-commerce, internet and world wide applications.

#### **ACCT 362: ACCOUNTING RESEARCH METHODS**

**3Credits**

Science and the scientific approach, problems and hypotheses, designs of research, sampling, methods of observation and data collection measurement/scaling methods, multiple regression analysis of data and presentation of research reports, application of Computer Software's in data analysis (e.g. SPSS, E-Views); any other topical issue?

#### **BSAD 310: INTRODUCTION TO BUSINESS**

**2 Credits**

The scope of business: the character of business from social, legal and economic perspectives. Forms of ownership, organization and management. Marketing, production, finance and accounting functions, government and business. The social responsibility of business, international business, problems of Nigerian business enterprises.

Introduction to basic programming. Constant and variables, statement types; assignment statements, input-output statements, control statements.

#### **GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

Relating accounting and student Christian Life, application of Biblical principles in accounting study; relationship of accounting ethics and Christian ethics; integrating faith with accounting profession; study relationship with lecturers and peers; the position of God in Accounting profession; Holy Spirit and Accounting Profession, and Overcoming profession and spiritual impartation.

#### **ACCT 409: BUSINESS POLICY AND STRATEGY**

**3 Credits**

Nature, dynamics and significance of corporate strategy and policy. The Nigerian business environment, corporate social responsibility, formulation, evaluation, and implementation of corporate strategy and organization structure, case studies in general management, any other topical issue.

#### **ACCT 420: PUBLIC SECTOR ACCOUNTING AND FINANCE**

**3 Credits**

Accounting for public sector organizations; authorities, prostates, boards, corporations and agencies; the general nature of, and differences among these bodies, financial provisions of enabling laws for the relevant utilities, authorities parastatals, boards, corporations and agencies, financial reporting receipts and

payments accounts, income and expenditure accounts, the balance sheet, value added statement, cash flow statement, five year financial summary, public finance; main sources of revenue and capital finance, nature and structure of public expenditure, borrowing policy and public debts funded and unfunded debts, external loans multilateral, Paris club, London club, promissory notes, to add spooling and consolidation, loan re-scheduling, debt-equity swap, debt forgiveness, principles and practice of fiscal federalism, fiscal capacity and need in multi-level government structures, intergovernmental; fiscal relations, Nigeria's experience with revenue allocation, the theory and proactive of grants in relation to state and local government, decisions in the public sector; application for cost and management accounting principles in governments and governmental bodies for preparation of budget estimates, pricing of services, fees and levies, pricing and negotiating contracts, reporting, evaluation of activities and payments, project appraisal in the public sector; cost benefit analysis, cost outcome analysis, cost effectiveness analysis, dimensions of project performance such as availability efficiency, outcome effectiveness and accessibility, any other topical issues?

### **ACCT 423: COMPUTER APPLICATIONS AND ACCOUNTING PACKAGES II**

**3 Credits**

This course involves practical use of various software to solve accounting and finance problems in the business and industrial environment. Hands-on study of the following Packages will be undertaken: Sage50,G Ledger, QuickBooks, Peachtree, Top Chart, ACL, Sun Accounting (Sun+). etc.

For each of the packages, the following key areas will be practiced, new company set up, Design/customization of Chart of accounts (GL configuration), data security: assigning of access rights and other controls, inventory management, fixed assets management, Depreciation, customer management and invoicing, vendor management/accounts payables, payroll and payroll liability management, Job costing and Bill of Materials (BOM), banking and accounts reconciliation, reports and analysis. Account Formats; Different formats for different companies and sectors. **(Pre-requisite – Computer Applications and Accounting Packages I)**

### **ACCT 441, 444: FINANCIAL MANAGEMENT I, II**

**3,3 Credits**

Brief review of introduction to business finance, sources of, and raising short-term finance and long term finance. investment decisions, types of investment decisions, capital budgeting and investment appraisal, management of working capital, share valuation, amalgamations and takeover, valuation of business, financial statement analysis, Effects of taxation and other governmental policies on investment and financing decisions, intra company and intercompany performance evaluations, problems of transfer pricing, - financing imports and exports, effects of inflation on financial management and reporting capital structure, dividends and retention policy, Modigliani and Miller's theory, management of risk and uncertainty, alternative attitudes to risk, portfolio theory, capital assets and prices of models., finance for small and medium size entities, financial management environment for business, the nature and role of financial market and institutions. Business valuation.

### **ACCT 433: TAXATION I**

**3 Credits**

General system of tax and tax administration, distinction between taxes and other levies, historical background and the structure of Nigeria tax system, sources of tax law, jurisdiction including rules of residence as applicable to individuals, entities, estates, executors and itinerant workers, general guidelines and practical procedures for registration of tax payers and relevant tax authorities, VAT administration; organs of administration, tax clearance certificate, individual assessment, trust, settlements and estates; general familiarity with the laws and practice, Income chargeable and exemptions, the employee, income tax under pay-as-you-earn (PAYE)system, partners in partnership and joint

ventures, sole traders, basis periods, change of accounting date, new trade or business, nature and objectives of capital allowances and relief's available, computation of allowances, relevance of capital allowances to the economy, unearned income and withholding tax; income from rent on property, including contractors financed projects, income from savings, dividends and interests assessments and payments, taxation of non-resident individuals drawing income from Nigeria, company income tax adjustments of profits claims for loss relief and computation of assessable profits, claims for capital allowances and computation of total profits, franked investment income, computation of tax liability, assessment and payment of income taxes including minimum tax, special considerations turnover tax, small company relief, specialized business including real estate, agriculture, transportation and telecommunication and education tax;

#### **ACCT 434: TAXATION II**

**3 Credits**

Tax Practice and Administration; Individual Assessment, Trust Settlements, Withholding Tax, VAT and Estates; Capital Gains Tax; Corporate Taxation including Taxation of Income, Pioneer Activities and Double Taxation Relief; Petroleum Profits Tax; Stamp Duty including Transfers Between Associated Companies and Reconstruction/Amalgamation Relief; Case Study.

#### **ACCT 400: INTERNATIONAL ACCOUNTING PRACTICES 3 Credits**

This course is designed for students interested in accounting and financial control of international operations, the students should be familiar with the International Accounting Standards (IASs 1-41) combined with subsisting International Financial Reporting Standards (IFRSs), the course involves preparation, translation and analysis of financial statements for companies, foreign exchange issues (IAS21) multinational companies, the course should also examine series of accounting and control problems of foreign companies, methods of transfer of dividends, cost of foreign products, funds for foreign directors, any other topical issues. Disclosures of Operating Segments; Future developments of the IFRS.

#### **ACCT 451: AUDIT AND ASSURANCE II**

**3 Credits**

The regulatory environment and corporate governance, The audit report, statutory requirements for audit report (Companies Act 1990), Types of audit reports, professional requirement, duties and powers under case law, independence and ethical considerations, Expectation Gaps and professional liability; Audit Planning and Control: audit planning and strategy, audit risks and audit risk assessment, audit tests, sample, sampling techniques and analytical reviews, system design and audit consideration of materiality and the application of over subsidiaries, assessment of materiality and the application of judgments, the post audit client review, Special audits: the audit of accounts of charitable and other non-profit oriented undertakings etc. Auditing of computer-based accounting system, and other IT issues in Audit and Assurance- IT governance, IT control activities, IT risk assessments and disaster recovery etc. Public Sector Audits; Quality Assurance; Investigations: of clients prior to investments or acquisition of a business, prospectus investigation, special investigations and reports. Audit evidence: use of assertions by auditors, audit procedures, the audit of specific terms, computer assisted audit techniques. **(Pre-requisite Audit and Assurance I)**

#### **ACCT 462: FINANCIAL REPORTING AND ETHICS OF ACCOUNTING I 3 Credits**

The context and purpose of financial reporting, the qualitative characteristics of financial information. Regulatory framework of Financial Reporting: Conceptual Framework of IASB on Financial Reporting and Relevant Regulatory Requirements, the accounting standards setting process and the local regulatory body, accounting and reporting Policies; Valuation of Assets and Liabilities; Accounting for Financial Instrument (IAS 39, IFRSs 7 & 9); Accounting for Employee Business (IAS 19) accounting for amalgamation, Absorption and Reconstruction/re-organization; Analysis and interpretation of Financial Statements;

introduction to Petroleum Operations Accounting (upstream), Share and business valuation. Accounting Ethics: Ethical framework, concepts and values, some theories of ethics; Professional ethics, Ethical threats and safeguards, Governance, Ethical concerns in Corporate Governance and Corporate Social responsibility, any other topical issues. **(Pre-requisite Financial Accounting and Accounting theory)**

**ACCT 490: RESEARCH PROJECT**

**6 Credits**

This course involves a supervised research project by each student. Every research in accounting must be capable of establishing the relationship between two or more business/organizational decision support variables or capable of introducing new facts that will help in improving financial managerial decisions. Students will be guided to select projects that will test their knowledge and skill in all area of accounting and be both mathematical and deductively challenging.



**Adesoga ADEFULU, PhD**

*Head of Department*

## **ACADEMIC STAFF**

Olalekan U. ASIKHIA, DBL	Professor of Management, Marketing & Entrepreneurship
Gabriel K. AFOLABI, Ph.D	Professor of Management Sciences
Johnson EGWAKHE, Ph.D	Professor of Management and Entrepreneurship
Oluseyi ODUYOYE, Ph.D	Professor of Entrepreneurship & Small Business Management
Adekunle O. BINUYO, Ph.D	Associate Professor of Management & Marketing
Adesoga ADEFULU, Ph.D	Associate Professor of Marketing & Entrepreneurship
Margaret N. KABUOH, Ph.D	Associate Professor of Marketing & Entrepreneurship
Christopher A. ONU, Ph.D	Senior Lecturer, Marketing
Thomas K. EGWUONWU, Ph.D	Senior Lecturer, Marketing
Victoria O. AKPA, Ph.D	Senior Lecturer, Human Resource Mgt.
Olive U. Egbuta, Ph.D	Senior Lecturer, Human Resource Mgt.
Timothy A. SOETAN, D.BA	Senior Lecturer, Management Accounting
Emmanuel O. AJIKE, Ph.D	Senior Lecturer, Strategic Marketing & Consumer Behaviour
Nanle MAGAJI, Ph.D	Senior Lecturer in Human Resource Mgt.
David AYENI, M.Sc	Lecturer I, Industrial Relation
Grace O. MAKINDE, Ph.D	Lecturer I, Strategic Management & Entrepreneurship
Babatunde H. AKINLABI, Ph.D	Lecturer I, Operations Research & Mgt
Idowu A. NWANKWERE, Ph.D	Lecturer II, Strategic Management
Benita N. AMOS, Ph.D	Lecturer II, Operations Research & Mgt
Ijeoma OGUNDIWIN, Ph.D	Lecturer II, International Business
Valerie ONYIA Ph.D	Lecturer II, Human Resources
Florence O.OKEOWO, Ph.D	Lecturer II, International Business & Marketing
Goodluck K. NNOROM. M.Sc	Assistant Lecturer



**ADJUNCT STAFF**

DADA, S. O. Ph.D

OKWU, Andy T. Ph.D

OYENIYI, O. Ph.D

KEHINDE O.J Ph.D

ABIODUN A.J. Ph.D

OBIAKOR, R. T.Ph.D

AKINTOLA, F. A. M.Sc

OGUNTODU, J. A. Ph.D

AYITE, Miriam M.Sc

WRIGHT, A. Ph.D

ILORI, A. Ph.D

SONUBI, A.O Ph.D

Associate Professor of Accounting

Associate Professor of Economics

Professor of Marketing

Senior Lecturer of Management

Senior Lecturer in Operation Research

Senior Lecturer in Economics

Senior Lecturer in Banking and Finance

Lecturer II in Banking and Finance

Lecturer II in Computer Science

Senior Lecturer, Strategic Management

Senior Lecturer, Strategic Management

Lecturer 1 in Operations & Production  
Management.

**ADMINISTRATIVE STAFF**

Bernice G. OBANIGBA

Confidential Secretary

**INTRODUCTION**

The department of Business and Marketing is one of the pioneer departments that were established at the inception of the University in 1999. It started with a crop of 34 students offering courses in a variety of subjects that are designed to provide them with a holistic education within a framework of intellectual, moral, and ethical guidelines coupled with sound integration of faith and learning. These courses are essentially tailored towards the provision of the graduate with a variety of professional skills that are predominantly required for management and leadership roles in the business and commerce industry.

It is worthy of note to mention, however, that the department as currently constituted, had earlier existed in the confines of the erstwhile Ilishan campus of Andrew University, Michigan, USA, when it offered courses in Business Administration as a minor programme for students who were then taking courses as majors in Religion. This remained the arrangement until the formal inauguration of Babcock University, subsequent to its grant of a Federal government charter as a private University in 1999.

At the undergraduate level, the department offers courses in two major programmes of study namely B. Sc. (Hons) Business Administration and B.Sc. (Hons) Marketing. The first set of graduates in the programmes were produced as part of the University's alpha Graduands in May, 2003. The seventeenth set of graduates of the B. Sc. (Business Administration) and B. Sc. (Marketing) programmes were produced at the University's convocation in June 2, 2019. Report and feedbacks obtained about graduates of the programmes, who have either gained employment, or proceeded to higher studies, have been quite satisfactory and encouraging. Over the years, the department has enjoyed tremendous support from major practitioners and multinational conglomerates in the business industry in the country.

**MISSION STATEMENT**

The mission of the Department of Business Administration and Marketing is to prepare men and women for professional careers in business and related disciplines by providing basic programmes in the various areas

suited to entrepreneurship, the needs of the industrial sector, and the requirements of the society at large, within the context of high moral Christ-like character and to ensure ethical standards in behaviour.

### **VISION STATEMENT**

To build globally competitive business administration and marketing academics that can be favourably compare with other scholars in similar field across the globe.

### **PHILOSOPHY**

The philosophy of the programmes of the department is to broaden the scholastic capacity of students in the discipline thereby enhancing their capacity to undertake rigorous and quality research and also to be able to apply theoretical understanding to practical management issues with a view to solving them which is anchored on the harmonious development of the intellectual, physical, social and spiritual potentials of students; and inculcating in young men and women a nobility of character and stability of purpose in our society

### **OBJECTIVES**

The courses and programmes offered by the Department are designed to provide the students with the variety of skills necessary to succeed within the government, industry and the church, and to train students for entrepreneurship and also for secretarial and office administration responsibilities thereby making them relevant to the contemporary society. The programs are designed to give the students broad background knowledge of the free enterprise system within the frame of moral and ethical guidelines. The curriculum assists the students to develop a sound Christian philosophy toward our current economic future. It provides the student with a quality academic program with basic business skills required for initial job placement, entrepreneurship and entrance into postgraduate programs in business, marketing, and other related disciplines. Further objectives of the programmes are as follows:

- To equip the students with essential analytical skills needed for the recognition, definition, and solution of management/marketing problems.
- To develop leadership and interpersonal relation skills in the students.

### **DEPARTMENTAL PROGRAMMES**

The department offers:

Bachelor of Science (Honours) in Business Administration, and Bachelor of Science (Honours) in Marketing.

### **DEPARTMENTAL ADMISSION REQUIREMENTS**

Candidates must have obtained 5 credits at not more than two sittings in five subjects including English Language, Mathematics, Economics and any two relevant social science subjects at SSCE or GCE Ordinary Level. A pass in Economics may be considered provided the candidate has a credit pass either in Accounting, Commerce or Business Methods.

### **B.Sc. (Hons) BUSINESS ADMINISTRATION**

#### **MINIMUM REQUIREMENTS FOR GRADUATION**

The programme is planned over a 4 year period consisting of 8 semesters.

Each semester consists of 18 weeks of formal teaching, and assessments. Each 3 unit course includes a scheduled mandatory 1 hour tutorial per week.

### Minimum Requirements for Graduation Table

Level	GEDS Courses (Units)	Departmental Courses (Units)	Non Departmental Courses (Units)	Total Units
100	21	13	9	43
200	15	22	9	46
300	9	18	16	43
400	5	35	3	43
Total	<b>50</b>	<b>88</b>	<b>37</b>	<b>175</b>

The general requirements for graduation include the following:

- (i) The completion of a minimum of **175** credit units including core, elective, and general education courses.
- (ii) Pass a minimum of **50** credits in the general education courses.
- (iii) Pass a minimum of **88** credits in the departmental courses.
- (iv) Pass a minimum of **37** credits in of non-departmental courses.
- (v) Complete, report and defend a research project supervised by a faculty assigned as the project supervisor. A fulltime student on the programme may not take less than 16 credit units, or more than 25 units per semester, except with requisite approval.

### B.Sc. (Hons) MARKETING

#### Minimum Requirements for Graduation Table

LEVEL	GEDS COURSES	DEPARTMENTAL COURSES	NON-DEPARTMENTAL COURSES	TOTAL
100	19	16	9	44
200	15	28	6	49
300	9	21	16	46
400	5	41	0	46
<b>TOTAL</b>	<b>48</b>	<b>106</b>	<b>31</b>	<b>185</b>

**B.Sc. (Hons) BUSINESS ADMINISTRATION**  
**100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
BSAD 101	Principles of Management I	3	-
BSAD 102	Principles of Management II	-	3
ACCT 101	Principles of Accounting I	3	-
ACCT 102	Principles of Accounting II	-	3
ECON 101	Principles of Economics I	3	-
BSAD 111	Business Mathematics I	2	-
BSAD 112	Business Mathematics II	-	2
MKTG 121	Principles of Marketing I	3	-
	<b>TOTAL (41 Credits)</b>	<b>22</b>	<b>19</b>

## B.Sc. (Hons) BUSINESS ADMINISTRATION

### 200 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environment and Sustainable Development	-	2
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
BSAD 202	Management Theory	-	3
BSAD 203	Production/Operations Management I	3	-
BSAD 204	Production/Operations Management II	-	3
BSAD 220	Foundations of Entrepreneurship	-	2
BSAD 211	Business Communication	3	-
BSAD 231	Statistics for Management I	3	-
BSAD 232	Statistics for Management II	-	3
BSAD 244	Fundamentals of Insurance	-	2
ACCT 203	Cost Accounting I	3	-
ECON 225	Structure of Nigerian Economy	3	-
FNCE 211	Business Finance I	3	-
	<b>TOTAL (46 Credits)</b>	<b>25</b>	<b>21</b>

## B.Sc. (Hons) BUSINESS ADMINISTRATION

### 300 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	-	2
GEDS 280	Leadership Skills	2	
	<b>CORE COURSES</b>		
BSAD 304	Corporate Planning	-	3
BSAD 311	Research Methodology	3	-
BSAD 314	Operations Research	-	3
BSAD 317	Industrial and Labour Relations	3	-
BSAD 332	Human Resources Management	-	3
LAWS 322	Company Law	-	3
LAWS 325	Business Law I	3	-
LAWS 326	Business Law II	-	3
MKTG 341	Consumer Behaviour	3	-
ACCT 300	Management Accounting	3	-
INSY 301	Intermediate Spreadsheet	2	-
INSY 302	Business Micro-Computer Applications	-	2
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

## B.Sc. (Hons) BUSINESS ADMINISTRATION

### 400 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional life	-	3
GEDS 440	E-Project Management and Simulation	2	-
	<b>CORE COURSES</b>		
BSAD 407	Entrepreneurial Development I	3	
BSAD 408	Entrepreneurial Development II		3
FNCE 476	Managerial Finance	-	3
BSAD 403	Analysis of Business Decision 1	3	-
BSAD 404	Analysis of Business Decision II	-	3
BSAD 433	Industrial Practice and Seminar in Business Analysis and Decision Making	2	-
BSAD 421	Organizational Behaviour	3	-
BSAD 430	Strategic Management	-	3
MKTG 431	Strategic Marketing Management I	3	-
BSAD 441	International Business	3	-
MKTG 441	Purchasing Management	3	-
BSAD 490	Research Project	-	6
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

## **B.Sc. (Hons) BUSINESS ADMINISTRATION COURSE DESCRIPTIONS**

### **BSAD 101: PRINCIPLES OF MANAGEMENT 1**

**3 Credits**

Define and explain the nature of profit making organizations, examine the managerial functions, levels and skills. Define and explain the nature of business. Identify and explain the forms/types of business ownership/organization, dimension of organizational structure. Business ethics/social responsibility of an organization. Understand the nature of Business Environment and its relevance for policy decisions to be made by the management of any organization. The basic concepts, principles and techniques of management. Apply the concepts, Principles and techniques in the solution of management problems. The objective of this course is to make the students understand that God the creator of human and material resources is the greatest Manager.

### **BSAD 102: PRINCIPLES OF MANAGEMENT 11**

**3 Credits**

Examines the four elements of the management process: planning, organizing, leading, and controlling. Identify principles to assist managers in adapting these elements to fit a variety of situations and enterprises; Reviews methods to improve the quality of managerial decisions in small and large, profit-seeking and not-for-profit organizations. Topics include management as a discipline, alternative organizational models, effective decision making, mission and strategy, operational strategy, and adaptive planning. The principles learnt from this study/course will make the students to be God fearing, and better future servant-leaders.

### **ACCT 101,102: PRINCIPLES OF ACCOUNTING I, II**

**3, 3 Credits**

The nature and scope of accounting functions and its relationship with the Information System of organizations. Accounting procedure and systems; Double Entry Book- Keeping Systems, the trial balance, accruals, Pre- payments Adjustments, classification of expenditure between Capital and Revenue. Methods of recording. Account Data, Manual and Mechanical. Manufacturing, trading and profit and loss accounts and balance sheet of a sole trader, accounting treatment of a control accounts. Accounting for sales fixed assets acquisition, depreciation and disposal, and bank operation and preparation of final accounts. Incomplete records, accounts of club and societies. Company accounts: Introduction to company accounts, simple final accounts. The principles learnt from this course will help make students accountable to God as the giver of wealth.

### **ECON 101 PRINCIPLE OF ECONOMICS I**

**3 Credits**

An introduction to the various issues in economics, the nature of economics science, the methodology of economics, major areas of specialization in economics, elementary principles of micro and macro-economics, current issues of interest in Economics and probable future developments. Students will be taught how to practice temperance and economise Gods resources to avoid wastage.

### **BSAD111: BUSINESS MATHEMATICS 1**

**2 Credits**

Introduction to set Theory with applications to business-related problems. Indices and Indicial equations with Graphs Algebraic expressions. Polynomials. Equations and Inequalities with applications. Coordinate geometric of lines. System of linear equations with applications. Sequences and series with applications, Simple and compound interests, Present value. Annuities, amortization. Introduction to mxn matrices and applications. Elementary Operations on matrices. Determinants. This does not apply to students majoring in computer science or mathematics. Students will be taught how to skilfully coordinate and control investments in a Godly manner.



**BSAD 112: BUSINESS MATHEMATICS 11****2 Credits**

Functions of real- variables. Concepts and Definition. Limit and continuity of functions. Derivatives and Techniques of finding derivatives with applications to business problems. Increasing and Decreasing functions with applications. Extreme values and applications. Integration and techniques with applications. Functions of several variables. Derivatives and applications. This does not apply to students majoring in computer science or mathematics. Students will be taught how to skilfully coordinate and control investments in a Godly manner.

**MKTG 121: PRINCIPLES OF MARKETING 1****3 Credits**

The nature and scope of marketing; marketing mix concept relevant to Nigerian environment. Emphasis on the need for organization to focus on identifying and satisfying the needs and wants of target customers, building relationships with stakeholders, and capturing value from customers in return. This course will emphasize on ethical behaviours in the marketing activities.

**BSAD 203, 204: PRODUCTION/OPERATIONS MANAGEMENT I, II****3, 3 Credits**

Production and its management in a business setting: production function modelling, forecasting and inventory management, systems theory and work study and management, predicated on the global products with acceptable quality. In order to have acceptable quality, this course will let the students see themselves as consumers of the goods the organizations are producing. That is, what is good for the consumers must be good for the producers. This is in line with Biblical principle that says “Love your neighbour as yourself”.

**BSAD 202: MANAGEMENT THEORY****3 Credits**

The Nature of management theory. Basic management techniques and concepts. Classical and neo-classical theories of organization and management. The modern and systems theories of management. Theories of motivation and leadership. The contingency approach. This course will emphasize the importance of treating others the way ones want to be treated. Biblical principles of equity, justice, and fairness will be emphasized.

**BSAD 220: FOUNDATIONS OF ENTREPRENEURSHIP****2 Credits**

This course is an introductory course for studying Entrepreneurship for the first time. The design and flow of the course are aimed at creating awareness, providing the knowledge and skills that are important to achieving success in all human endeavors. The objectives (i) To provide a hands-on, practical guidance to understand and discover critical aspects of Entrepreneurship (ii) To develop competencies, know-how, experience, attitudes, resources, and network required to pursue different Entrepreneurial opportunities. (iii) To introduce students to the key requirements for starting an enterprise. (iv) To expose students to vital issues of entrepreneurship and immerse them in key learning experiences, such as the theories of Entrepreneurship, Entrepreneurship, Intrapreneurship, Characteristics and Behavioural traits of Entrepreneurs, the Nigerian business environment, Entrepreneurial Process, Business Opportunity, Feasibility Analysis and Business planning, Creativity and intellectual rights, the concept and management of innovation, Technological entrepreneurship, Ethics and social responsibility and Problems of Entrepreneurship ventures in Nigeria.

**BSAD 211: BUSINESS COMMUNICATION****3 Credits**

A study and application of the modern practices in oral and written business communication. Accuracy in grammar, spelling and punctuation and the writing of well- knit sentences and clear paragraphs, are taught as a means of effective expression in business letter writing. This course will teach students to strive for

excellence in sending messages to other organizational stakeholders. This will ensure the delivery of the right message without any misinterpretation by the receivers of such messages.

**FNCE 218: INTRODUCTION TO FINANCIAL MANAGEMENT 3 Credits**

Objectives, role, functions and environment of financial management. Flow of funds accounts, Financial analysis, including ratios. Financial forecasting, Cash management, Accounts receivable management, Inventory management, Capital Market functions, including supply and demand for capital, Money and capital market in Nigeria, Capital budgeting, Cost of capital, Dividend policy, and Problems of financial administration. This course will be based on the Biblical principles that says “keep out of debt”. It will emphasize on how to manage organizational finances without incurring unnecessary debt.

**FNCE 211: BUSINESS FINANCE I 3 Credits**

Importance of funds and their sources to business organization. Some selected areas of investment, tax management and mergers; Money as the common denominator of values. The objective of this course is to teach students that sourcing funds for the organization should be based on fact and not on the human feelings. That is, the course will emphasize on honesty and integrity.

**BSAD 231: STATISTICS FOR MANAGEMENT 1 3 Credits**

To introduce the students to: Basic Statistical Concepts and Theories. Computation and interpretation of basic statistical measures. To provide the students with quality and sound foundation in quantitative techniques that will enhance their competence and understanding in the relevant subject areas. This will imply a good grasp in the students ability to employ the suitable statistical models and techniques for business decision making problems.

Statistical data collection and presentation, numerical and graphical data presentation, sampling methods (random, stratified, quota, area, multi- phase, multistage, systematic, etc), frequency distributions, measures of central tendency (mean, median, mode, fraction, collation methods), measures of dispersion (standard deviation, variance, mean deviation, etc), correlation and regression analysis (methods of normal equation and least squares), coefficient of correlation (pearson product moment and spear man’s rank method), probability and expected values, permutations and combinations. This course will teach the students the importance of the statistical result in making decisions that solve organizational problems. As a result, taking other organizational stakeholders into consideration when single-handedly preparing and presenting statistical results will be emphasized. **This subject (BSAD231) is linked to BSAD 232 as a general pre-requisite.**

**BSAD 232: STATISTICS FOR MANAGEMENT 11 3 Credits**

Statistics for management 2 also known as inferential Statistics i the second aspect of statistics that deals majorly with hypothesis testing and other further statistical analysis such as probability distributions, index series, time series analysis that facilitates decision making bin the face of uncertainty. Expected values, estimation (probability applications), binomial distribution, poisson distribution, index numbers (price and volume indices), laspayre index, paasche index, fishers ideal index, X2 test of hypothesis. Yate’s correction, student t- test of hypothesis. It solidifies the foundational prerequisites necessary to understand and appreciate more advanced studies in the quantitative subject area, which will facilitate a good grasp in the students’ ability to employ suitable statistical models and techniques for business decision making problem that can be applied to real life situation. This course will emphasize on the importance of objectivity in the preparation and presentation of the statistical result. It will discourage manipulation of data in any form.

**ACCT 203: COST ACCOUNTING I 3 Credits**

Objectives and purpose of cost accounting. The cost viz, historical cost, standard cost, marginal cost, average cost, etc, cost units and cost centers. The elements of cost and classification of costs. Cost Accounting for materials, labour overhead and equipment, job and process cost accounting; Elements of marginal costing, standard costing and budgetary control. Double Entry Accountings for cost control. A review of the history, principles and objectives (in terms of users) of cost of cost Accounting information for various users and levels of management as well as various types of business. Cost Accounting aspect of materials, labour and overheads. Integrated and uniform cost costing job (including Contract and Batch) costing. Process costing (detailed treatment of joint and by product as well as spoilage). Marginal costing. Break-even and cost volume. Profit analysis. Standard costing and budgetary control. Variance and variance analysis, quantity rate cost and efficiency variances. Behavioural aspect of cost accounting. Cost accounting information is needed for business decision making. Therefore, this course will emphasize the importance of honesty, integrity, accountability, and responsibility in the preparation and presentation of cost accounting information.

**ECON 225: STRUCTURE OF NIGERIAN ECONOMY      3 Credits**

The course examines the major sectors of the Nigerian economy and their characteristics features; developments of the economy over time and the problems; the major institutions and organs responsible for planning and shaping of policies that have gone into making the sectors as well as the state of the economy as at present, major changes that have occurred in the country since independence especially those related to National Income and its components, investments, exports, imports, money supply and government expenditures and revenues. This course will be based on the Biblical principle that says “whoever oppresses the poor to increase his own wealth, or gives to the rich, will only come to poverty”. It will emphasize on the importance of accountable to God for everything we do.

**BSAD 244: FUNDAMENTALS OF INSURANCE      2 Credits**

A Study of the ways to uncover risk within organisation and the role of Insurance as risk management mechanism. The course elucidates on types of insurance cover, canons of insurance, costs and benefits of insurance, pension scheme, reinsurance, government regulations and supervision of insurance in Nigeria.

As insurance agents, God has given the power to work hard and in this way we must help the weak and remember the words of the Lord Jesus, how he himself said, ‘It is more blessed to give than to receive. It is against the backdrop of the challenges faced by managers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and display servant leadership character in selling insurance policy and the exercise of intellectual freedom.

**LAWS 325: BUSINESS LAW I      3 Credits**

A course design to study the nature and social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations. An understanding of the topics in this course will help students to be able to relate and carry out business in a moral and ethical manner.

**LAWS 326: BUSINESS LAW II      3 Credits**

Uniform commercial code, sales, commercial paper, secured transactions; creditors’ rights and bankruptcy; agency; business organizations limited and general partnerships, corporations; government regulations. This is in line with the biblical principles of dealing fairly with business partners based on honesty, accountability, equity and justice.

**BSAD 304: CORPORATE PLANNING      3 Credits**

This course focuses on processes which facilitate strategic thinking and trigger strategic initiatives within an organization. This is especially relevant in today's environment where various technological and social changes urge organizations to be concerned about their own future. The course will prepare students to help organizations initiate (or strengthen their) future-oriented management activities using any or combination of alternative framework provided, aimed at ensuring sustained performance over time. Operational issues involved in planning for different types of organization functioning in different practical domains will also be elaborated. The students will be taught to adopt a holistic view of the organization, and develop the required orientation to initiate future-oriented management activities.

**BSAD 311: RESEARCH METHODOLOGY**

**3 Credits**

Science and the scientific approach, problems and hypotheses, designs or research, sampling, methods of observation and data collection, measurement/scaling methods, multiple regression analysis, analysis of data and presentation of research reports. This course will emphasize the importance of methodology in creation and teach the students to systemically address issues and in a step by step way. Biblical principles of equity, justice, and fairness will be emphasized.

**BSAD 314: OPERATIONS RESEARCH**

**3 Credits**

A history of operations research; implementation results; of operation research results; formulation and graphical solution of linear programming problems, prototype linear programming models. As production and operation managers we should always be transparent in our quantitative dealings. We should never have anything to hide from one another. It is against the backdrop of the challenges faced by production and operation managers in the ethical decision-making process that would take into account the core values of the institution namely excellence and team spirit, honesty and transparency, and responsibility and the exercise of intellectual freedom.

**BSAD 317: INDUSTRIAL AND LABOUR RELATIONS**

**3 Credits**

The evolution of industrial relations and its relationship to the personnel management and other functional areas of management: as a vital tool in the industrial setting in the quest for harmony so that organizational objectives can be achieved peacefully. A basic knowledge of industrial relations is in line with the biblical injunction of doing unto others what you want them to do unto you.

**LAWS 322: COMPANY LAW**

**3 Credits**

Concept of corporate personality. Outline of the evolution of the Nigerian Company Law (1212 to date). Types of Incorporation of Companies (under the 1968 Company Law). Raising and maintenance of capital-shares, debentures, etc.

Company administration - duties of company directors and the company secretary, meetings and resolutions, accounts and reports, concepts of corporate democracy, reconstruction, mergers and take-overs, liquidation and dissolution. The scriptures requires us to be upright in all that we do. As such the principles of company law will help the student to understand how to carryout business in a legal manner.

**BSAD 332: HUMAN RESOURCES MANAGEMENT**

**3 Credits**

Study of the personnel function, which includes the development of programs for recruitment, selection, performance evaluation, training, supervision, compensation, pensions, and government regulations. The course will give the students a broad knowledge in the field of human resource management, with basic understanding of Godly principles which centers on the welfare of believers, as well as non-believers in order to assist companies adapt to a quickly changing environment and to express the love of Jesus Christ to others in a competitive labor market.

**MKTG 341: CONSUMER BEHAVIOUR****3 Credits**

Role of the consumer in marketing, group influence on consumer, culture context of consumer behaviour, social stratification, reference group and sub-cultural influence of individual: Predisposition, information processing, attitude change and persuasive communication: Nature of Communication: Decision Processes, Consumerism. The course will help students to be aware of the behavior God expects from His children, as they carry out their daily activities in a crooked and perverse generation. Students will also have an explicit understanding of basic theories and models of consumer behavior in both secular and faith-based organization.

**ACCT 300: MANAGEMENT ACCOUNTING****3 Credits**

Budgetary system and controls including operational budget, cash budget, profit and loss accounts budget, balance sheet, capital budgeting and expenditure control, Responsibility accounting, system e.g. responsibility areas like cost centres, investment centres, profit centers performance evaluation in a divisionalized organization, standard costing; advanced variance, working back variances, operational and planning variances, control ratios and profit analysis, the use of models in decision making; application research and statistical and planning e.g. linear programming, PERT, learning curve, decision tree. Any other topical issue As Management Accountants, we should always be transparent, hide nothing in discharging our responsibilities, therefore, let each one of us speak the truth with your business partners, for we are members one of another. To this end, the challenges faced by Management Accountants in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, responsibility and the exercise of intellectual freedom.

**INSY 301: INTERMEDIATE SPREADSHEET****2 Credits**

Advance application of spreadsheet package as applied in business, adequate attention be paid to the use of spreadsheet in the various financial and costing methods like budgeting, payroll preparation, cash analysis etc., packages like micro-soft Excel, Lotus, Quatro-pro, DAC-easy, Peach tree, sage, quick books s be used etc. Any other topical issue. The principles learnt from this course will help make students accountable to God as the giver of wealth and in an orderly and sequential method.

**INSY 302: BUSINESS MICRO COMPUTER APPLICATION****2 Credits**

Study of micro computer database package including the use of other standard microcomputer software package such as D-base V of windows, D-base IV, Microsoft Word, Corel draw, Word perfect 8, Lotus 123 and Integrated package, statistical package such as SPSS. A basic knowledge of micro-computer application is to get students acquitted that during creation, God created man from the dust of the ground which symbolizes computer hardware. He then breath into man the breath of life and man became a living being which symbolizes computer software. The software controls the entire activities of the computer just as without the breath of life, man will die so also without the software a computer is useless.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE****3 Credits**

Biblical Principles in Personal and Professional life establishes vision, direction and purpose. It fuels us, inspires us and gives us hope. When considering leadership in our personal and professional lives we should consider fundamental values and principles that inform our decision making. Keeping in mind as students and believers, that one of the most important leadership duties is to present ourselves before God as faithful and obedient students and servants. We should all strive to one day hear the words: Well done my good and faithful servant. The course examines the principles that is the foundation for leadership and that should inform our decision making today: Understand the Primary Purpose for Your Leadership~ Deuteronomy 6:5-

6; Dedicate Yourself to the Word of God~Joshua 1:8-9; Be Confident about Who Informs Your Vision~Nehemiah 7:5a; Know Who to Trust~Psalm 37:5; Be Intentional About Protecting Your Heart ~Proverbs 4:23; Appreciate the Value and Importance of Wise Counsel~Proverbs 11:14; Grasp What God Requires of Your Leadership ~Micah: 6:8; Understand it is God Who has Appointed You as Leader ~Ephesians 4: 1a; Be Wise About Your Leadership ~2 Timothy 1:15; Get Your Strength from God~Philippians 4:13; Realize Your Power Source~Matthew 7:7-8; Recognize Greatness is in Serving~Matthew 20: 26-28; Live by this Golden Command~Mark 12:30-31. It is our belief as a department that if you put these principles into practice in your personal and professional life you will have great success, experience the joy of God and one day hear the words, Good and well done my faithful servant.

#### **BSAD 407: ENTREPRENEURIAL DEVELOPMENT I**

**3 Credits**

This is a follow-up to Foundations of Entrepreneurship. Some key issues and concepts relating to the following will be taught and discussed - overview of entrepreneurship, entrepreneurship development theories; entrepreneurship orientation, Nigerian entrepreneurial environment, entrepreneurship process, forms of business ownership, business opportunity and constraints evaluation, strategic approach to entrepreneurship, business creation and planning, financial aspect of entrepreneurship/source of capital, entrepreneurship development in Nigeria, entrepreneurship marketing, private government agencies supporting and promoting entrepreneurship in small and medium enterprises, reflections from case studies.

As entrepreneurs in God vineyard, we should do nothing out of selfish ambition or vain conceit, but in humility consider others better than oneself. Every entrepreneur should look not only to his/her own interests, but also to the interests of others. Based on the challenges faced confronting entrepreneurs in the business ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

#### **BSAD 408: ENTREPRENEURIAL DEVELOPMENT II**

**3 Credits**

Study of small business management from empirical and theoretical perspective. Definitions, roles, legal requirements at start-up, ownership types/forms, theories of entrepreneurship development, management functions, roles, skills, environmental analysis. Further studies on business planning, resources determination, marketing/Marketing generic strategies, expansion strategies and success and failure factors. Family business and succession planning, women entrepreneurship, social entrepreneurship, business opportunity evaluation, concept of business and new value creation financing, issues on business growth, sources of funds, marketing, new opportunities for expansion, managing transition: from start-up to expansion.

As entrepreneurs in God vineyard, we should do nothing out of selfish ambition or vain conceit, but in humility consider others better than oneself. Every entrepreneur should look not only to his/her own interests, but also to the interests of others. Based on the challenges faced confronting entrepreneurs in the business ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

#### **FNCE 476: MANAGERIAL FINANCE**

**3 Credits**

A study of the fundamental principles of financial organization. Emphasis on instruments of finance, policies of capitalization, problems pertaining to working capital, and corporate expansion and reorganization. As finance managers, we should always be transparent, hide nothing in discharging our responsibilities, therefore, let each one of us speak the truth with your business partners, for we are members one of another. To this end, the challenges faced by finance managers in the ethical decision-making process that would take

into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

**BSAD 421: ORGANIZATIONAL BEHAVIOUR**

**3 Credits**

An overview of organizational behaviour which include: definition of organizational behaviour (OB), making sense of behaviour in organizations, how will knowing organizational behaviour make a difference?, challenges in the Canadian workplace, challenges at the individual level, challenges at the group level, and challenges at the organizational level. Other topics to be discussed comprises perception, personality, and emotions, values, attitudes, and their effects in the workplace, motivating self and others, working in teams, communication, conflict, and negotiation, power and politics, leadership, decision making, creativity, and ethics, organizational culture and change. As managers, we should walk in the way of the good and keep to the paths of the righteous. For the upright will inhabit the land, and those with integrity will remain in it. It is due to the challenges faced by managers in the ethical organizational decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and excellence in performance.

**BSAD 430: STRATEGIC MANAGEMENT**

**3 Credits**

This course gives an overview of all essential aspects of business policy and strategic management. The intention is to provide students with strategy insights; reflect on strategic dilemmas; and practice strategy tools to enable students to become strategic thinkers. The course will cover scanning of the business environment, strategy analysis, formulation of strategies at different levels of the organization, strategy implementation and strategy evaluation and control. We will also reflect on the purpose of organizations, their governance, and their role towards shareholders, stakeholders and society in general. All these will be discussed to operate successfully in the Nigerian business environment and globally. Various case studies in general management will be analyzed.

As managers we need to know that the earth is the Lord's and we are accountable to Him, we are mere stewards, every managerial activity should be carried out with the fear of God. It is against the backdrop of the challenges faced by managers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom. We as managers should not be domineering over those in our charge, but being examples to the flock.

**BSAD 433: INDUSTRIAL PRACTICE AND SEMINAR IN BUSINESS (Case Study)**

**2 Credit**

This course is designed to enable the student to have an opportunity to translate theoretical concepts and principles in Business Management into practical experience in the field of Management. To achieve the ability to demonstrate skills necessary to identify and analyse strategic management issues. Evaluate critically alternative strategic responses to management problems. Understand the input of various sub-divisions of management (e.g. marketing, finance) to corporate planning issues.

This is understood as the freedom to pursue truth and showcase things as they are. In order for students to be able to truly pursue truth, they will need to see various sides of the issues. Based on the challenges experienced by students in research process that would take into account the core values of the institution namely team spirit and integrity, honesty and transparency, and the exercise of intellectual freedom

**MKTG 431: STRATEGIC MARKETING MANAGEMENT I**

**3 Credits**

Application of the fundamental principles of management to the marketing function. The organization, planning, control, co-ordination and interaction of the whole marketing function (Product, physical, distribution, pricing and promotion). Marketing and social responsibility, consumer behaviour, and so on. All marketing managers and personnel should show themselves in all respects to be model of strategic thinkers in the marketing practice. And the teacher should show integrity and dignity in the course of teaching. Based on the fact of the challenges encountered by marketing managers and personnel in the ethical strategic decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom

#### **BSAD 441: INTERNATIONAL BUSINESS**

**3 Credits**

Theories of International business, socio-cultural, legal, geographical, technological and structural variables of the world market. As managers, we must transact our businesses in the way of the good and keep to the paths of the righteousness. For the upright will inhabit the land, and those with integrity will remain in it. As a result, the challenges experienced by managers in the ethical decision-making process that would take into account the core values of the institution consisting of accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom

#### **MKTG 441: PURCHASING MANAGEMENT**

**3 Credits**

Introduction/overview ; Definition of purchasing to business, Core concept in purchasing: importance of purchasing to business, Purchasing goods classification, Characteristics of industrial markets, A comparison of industrial and consumer markets; The decision making Unit (DMU), The purchasing process, Variable that affect the buying process, Role played by individual in the DMU; buying situations and typology, Negotiation and the negotiation process, Commercial and legal terms and condition, E-procurement and its advantages and risks, Purchasing management: Definition primary tasks and responsibilities, Purchasing management process, Differences between Goods and services; classification of services, Purchasing process for services, Public procurement nature; principles and procedures of public procurement, Public procurement regulations in Nigeria, Market structures types (supply-side), Market structure (Demand side), Supply market research subjects, Supply market research reasons, Purchasing and innovation, Purchasing and quality management, Materials requirement planning; supply just-in-time management/ economic order quality (EOQ), Purchasing information system.

As purchasing managers and agents of an organization, we should always walk in integrity so that we will be delivered, but he who is crooked in his purchasing transaction will suddenly fall. Based on this fact, the challenges faced by purchasing managers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom

#### **BSAD 403, 404: ANALYSIS OF BUSINESS DECISIONS I, II**

**3, 3 Credits**

The course is to equip students with models for decision making in varying situations with a view to identifying the most efficient, economic cost effective, and profit yielding decisions in service and manufacturing organizations. BSAD 403 is an introductory course to operational research (OR) as a decision-making problem-solving, science-based activity. The course is designed to introduce students to the concepts and methods of decision analysis, and operational research as an approach to decision analysis. This course will assist the students on how to make managerial decisions relative to scarce resources and yet achieve set organizational objectives. It will also provide a firm basis for the understanding and application of advanced techniques of what would follow in later courses.



BSAD 404 is a follow-up to the course on Analysis of Business Decisions 1, this course is designed to help students in understanding and applying some of the techniques of Operation Research (OR) in solving various management problems.

As business decision managers we should always be transparent in our quantitative dealings. We should never have anything to hide from one another. It is against the backdrop of the challenges faced by business decision makers/managers in the ethical decision-making process that would take into account the core values of the institution namely excellence and team spirit, honesty and transparency, and responsibility and the exercise of intellectual freedom.

**BSAD 490:                      RESEARCH PROJECT                      6 Credits**

Independent study of a management topic approved by the department under the supervision of a lecturer in the department. As potential researchers/students, there is need to support the practice of intellectual freedom. This is understood as the freedom to pursue truth and showcase things as they are. In order for students to be able to truly pursue truth, they will need to see various sides of the issues.

It is against the challenges faced by researchers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, team spirit and honesty and the exercise of intellectual freedom.

## BACHELOR OF SCIENCE (B.Sc. Hons) MARKETING

### 100 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
BSAD 101	Principles of Management II	3	-
BSAD 102	Principles of Management II	-	3
ACCT 101	Principles of Accounting I	3	-
ACCT 102	Principles of Accounting II	-	3
ECON 101	Principles of Economics I	3	-
MKTG 121	Principles of Marketing I	3	-
MKTG 122	Principles of Marketing II	-	3
BSAD 111	Business Mathematics I	2	-
BSAD 112	Business Mathematics II	-	2
	<b>TOTAL (44 Credits)</b>	<b>22</b>	<b>22</b>

## BACHELOR OF SCIENCE (B.Sc. Hons) MARKETING

### 200 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environment and Sustainable Development	-	2
GEDS 270	Peace and Conflict Resolution	2	
GEDS 290	Spreadsheet and Digital Presentations	2	-
	<b>CORE COURSES</b>		
BSAD 202	Management Theory	-	3
BSAD 203	Production/Operations Management I	3	-
BSAD 220	Foundations of Entrepreneurship	-	2
BSAD 211	Business Communication	3	-
FNCE 218	Introduction to Financial Management	-	3
MKTG 215	Industrial and Agricultural Marketing	3	-
MKTG 216	Integrated Marketing Communication	-	3
BSAD 231	Statistics for Management I	3	-
BSAD 232	Statistics for Management II	-	3
MKTG 242	Sales Management	-	3
ACCT 203	Cost Accounting I	3	-
BSAD 244	Fundamentals of Insurance		2
	<b>TOTAL (49 Credits)</b>	<b>24</b>	<b>25</b>

## BACHELOR OF SCIENCE (B.Sc. Hons) MARKETING

### 300 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	2	-
GEDS 280	Leadership Skills		2
	CORE COURSES		
BSAD 311	Research Methodology	3	-
BSAD 314	Operations Research	-	3
BSAD 332	Human Resources Management	-	3
LAWS 325	Business Law I	3	-
LAWS 326	Business Law II	-	3
LAWS 322	Company Law	-	3
MKTG 341	Consumer Behaviour	3	-
MKTG 342	Promotional Strategies	-	3
MKTG 343	Service Marketing	3	-
MKTG 345	Product Development and Branding	3	-
ACCT 300	Management Accounting	-	3
INSY 301	Intermediate Spreadsheet	2	-
INSY 302	Business Micro-computer Applications	-	2
	TOTAL (46 Credits)	22	24

## BACHELOR OF SCIENCE (B.Sc. Hons) MARKETING

### 400 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
GEDS 440	E-Project Management and Simulation	2	-
	<b>CORE COURSES</b>		
MKTG 401	Marketing Research	3	-
BSAD 407	Entrepreneurial Development I	3	-
BSAD 408	Entrepreneurial Development II		3
MKTG 411	Physical Distribution	3	-
BSAD 403	Analysis of Business Decision 1	3	-
BSAD 404	Analysis of Business Decision II	-	3
MKTG 433	Industrial Practice and Seminar in Marketing Analysis and Decision Making	2	-
MKTG 422	International Marketing	-	3
BSAD 430	Strategic Management	-	3
MKTG 431	Strategic Marketing Management I	3	-
MKTG 416	Electronic Marketing	-	3
MKTG 441	Purchasing Management	3	-
MKTG 490	Research Project	-	6
	<b>TOTAL (46 Credits)</b>	<b>22</b>	<b>24</b>

## **BACHELOR OF SCIENCE (B.Sc. Hons) MARKETING COURSE DESCRIPTIONS**

### **BSAD 101: PRINCIPLES OF MANAGEMENT 1**

**3 Credits**

Define and explain the nature of Business, Examine the managerial functions, levels and skills. Define and explain the nature of business. Identify and explain the forms/types of business ownership/ organization, dimension of organizational structure. Business ethics/social responsibility of a business/corporate body. Understand the nature of Business Environment and its relevance for policy decisions to be made by the management of any organization. The basic concepts, principles and techniques of management. Apply the concepts, Principles and techniques in the solution of management problems. The objective of this course is to make the students understand that God the creator of human and material resources is the greatest manager.

### **BSAD 102: PRINCIPLES OF MANAGEMENT 11**

**3 Credits**

Examines the four elements of the management process: planning, organizing, leading, and controlling. Identify principles to assist managers in adapting these elements to fit a variety of situations and enterprises; Reviews methods to improve the quality of managerial decisions in small and large, profit-seeking and not-for-profit organizations. Topics include management as a discipline, alternative organizational models, effective decision making, mission and strategy, operational strategy, and adaptive planning. The principles learnt from this study/course will make the students to be God fearing, and better future servant-leaders.

### **ACCT 101,102: PRINCIPLES OF ACCOUNTING I, II**

**3,3 Credits**

The nature and scope of accounting functions and its relationship with the Information System of organizations. Accounting procedure and systems; Double Entry Book- Keeping Systems, the trial balance, accruals, Pre- payments Adjustments, classification of expenditure between Capital and Revenue. Methods of recording. Account Data, Manual and Mechanical. Manufacturing, trading and profit and loss accounts and balance sheet of a sole trader, accounting treatment of a control accounts. Accounting for sales fixed assets acquisition, depreciation and disposal, and bank operation and preparation of final accounts. Incomplete records, accounts of club and societies. Company accounts: Introduction to company accounts, simple final accounts. The principles learnt from this course will help make students accountable to God as the giver of wealth.

### **ECON 101: PRINCIPLE OF ECONOMICS I**

**3 Credits**

An introduction to the various issues in economics, the nature of economics science, the methodology of economics, major areas of specialization in economics, elementary principles of micro and macro-

economics, current issues of interest in Economics and probable future developments. Students will be taught how to practice temperance and economise Gods resources to avoid wastage.

**BSAD 111: BUSINESS MATHEMATICS 1**

**2 Credits**

Introduction to set Theory with applications to business-related problems. Indices and Indicial equations with Graphs Algebraic expressions. Polynomials. Equations and Inequalities with applications. Coordinate geometric of lines. System of linear equations with applications. Sequences and series with applications. Simple and compound interests. Present value. Annuities, amortization. Introduction to  $m \times n$  matrices and applications. Elementary Operations on matrices. Determinants. This does not apply to students majoring in computer science or mathematics. Students will be taught how to skilfully coordinate and control investments in a Godly manner.

**BSAD 112: BUSINESS MATHEMATICS 11**

**2 Credits**

Functions of real- variables. Concepts and Definition. Limit and continuity of functions. Derivatives and Techniques of finding derivatives with applications to business problems. Increasing and Decreasing functions with applications. Extreme values and applications. Integration and techniques with applications. Functions of several variables. Derivatives and applications. This does not apply to students majoring in computer science or mathematics. Students will be taught how to skilfully coordinate and control investments in a Godly manner.

**MKTG 121: PRINCIPLES OF MARKETING 1**

**3 Credits**

The nature and scope of marketing; marketing mix concept relevant to Nigerian environment. Emphasis on the need for organization to focus on identifying and satisfying the needs and wants of target customers, building relationships with stakeholders, and capturing value from customers in return. This course will emphasize on ethical behaviours in the marketing activities.

**MKTG 122: PRINCIPLES OF MARKETING 11**

**3 Credits**

Pricing Strategies, Marketing Channels: Delivering Customer Value, Retailing and Wholesaling, Communicating Customer Value: Integrated Marketing Communications Strategy, Advertising and Public Relations, Personal Selling and Sales Promotion Direct and Online Marketing: Building Direct Customer Relationships, Creating Competitive Advantage, The Global Marketplace, Sustainable Marketing: Social Responsibility and Ethics. This course will emphasize on ethical behaviours in the marketing activities.

**BSAD 203, 204: PRODUCTION/OPERATIONS MANAGEMENT I, II**

**3, 3 Credits**

Production and its management in a business setting: production function modelling, forecasting and inventory management, systems theory and work study and management, predicated on the global products with acceptable quality. In order to have acceptable quality, this course will let the students see themselves as consumers of the goods the organizations are producing. That is, what is good for the consumers must be good for the producers. This is in line with Biblical principle that says “Love your neighbour as yourself”.

**BSAD 220: FOUNDATIONS OF ENTREPRENEURSHIP**

**2 Credits**

This course is an introductory course for studying Entrepreneurship for the first time. The design and flow of the course are aimed at creating awareness, providing the knowledge and skills that are important to achieving success in all human endeavors. The objectives (i) To provide a hands-on, practical guidance to understand and discover critical aspects of Entrepreneurship (ii) To develop competencies, know-how, experience, attitudes, resources, and network required to pursue different Entrepreneurial opportunities. (iii)

To introduce students to the key requirements for starting an enterprise. (iv) To expose students to vital issues of entrepreneurship and immerse them in key learning experiences, such as the theories of Entrepreneurship, Entrepreneurship, Intrapreneurship, Characteristics and Behavioural traits of Entrepreneurs, the Nigerian business environment, Entrepreneurial Process, Business Opportunity, Feasibility Analysis and Business planning, Creativity and intellectual rights, the concept and management of innovation, Technological entrepreneurship, Ethics and social responsibility and Problems of Entrepreneurship ventures in Nigeria.

**BSAD 202: MANAGEMENT THEORY**

**3 Credits**

The Nature of management theory. Basic management techniques and concepts. Classical and neo-classical theories of organization and management. The modern and systems theories of management. Theories of motivation and leadership. The contingency approach. This course will emphasize the importance of treating others the way ones want to be treated. Biblical principles of equity, justice, and fairness will be emphasized.

**BSAD 211: BUSINESS COMMUNICATION**

**3 Credits**

A study and application of the modern practices in oral and written business communication. Accuracy in grammar, spelling and punctuation and the writing of well- knit sentences and clear paragraphs, are taught as a means of effective expression in business letter writing. This course will teach students to strive for excellence in sending messages to other organizational stakeholders. This will ensure the delivery of the right message without any misinterpretation by the receivers of such messages.

**FNCE 218: INTRODUCTION TO FINANCIAL MANAGEMENT**

**3 Credits**

Objectives, role, functions and environment of financial management. Flow of funds accounts. Financial analysis, including ratios. Financial forecasting. Cash management. Accounts receivable management. Inventory management .Capital Market functions, including supply and demand for capital. Money and capital market in Nigeria. Capital budgeting. Cost of capital. Dividend policy. Problems of financial administration. This course will be based on the Biblical principles that says “keep out of debt”. It will emphasize on how to manage organizational finances without incurring unnecessary debt.

**MKTG 215: INDUSTRIAL AND AGRICULTURAL MARKETING**

**3 Credits**

To enable the students to understand the nature and scope of industrial and agricultural marketing. To understand the characteristics of industrial buyers. Understand the behavioural models for analysing industrial buying. Understand the role and nature of pricing in industrial and agricultural marketing. This course will teach the students to have interest of the buyers in mind and not only the financial interest will they gain. It will also teach the students to be responsible and accountable for the goods sold.

**MKTG 216: INTEGRATED MARKETING COMMUNICATION**

**3 Credits**

To enable the students understand the nature and scope of marketing communication. To appreciate the marketing communication process. To appreciate the importance of marketing communication as a vital tool towards actualization of exchange.

This course will emphasize the importance of honesty and integrity in communicating their products to their potential consumers. Misleading consumers regarding the products’ specifications will be discouraged.

**BSAD 231: STATISTICS FOR MANAGEMENT 1**

**3 Credits**

To introduce the students to: Basic Statistical Concepts and Theories. Computation and interpretation of basic statistical measures. To provide the students with quality and sound foundation in quantitative techniques that will enhance their competence and understanding in the relevant subject areas. This will



imply a good grasp in the students ability to employ the suitable statistical models and techniques for business decision making problems.

Statistical data collection and presentation, numerical and graphical data presentation, sampling methods (random, stratified, quota, area, multi- phase, multistage, systematic, etc), frequency distributions, measures of central tendency (mean, median, mode, fraction, collation methods), measures of dispersion (standard deviation, variance, mean deviation, etc), correlation and regression analysis (methods of normal equation and least squares), coefficient of correlation (pearson product moment and spear man's rank method), probability and expected values, permutations and combinations. This course will teach the students the importance of the statistical result in making decisions that solve organizational problems. As a result, taking other organizational stakeholders into consideration when single-handedly preparing and presenting statistical results will be emphasized. **This subject (BSAD231) is linked to BSAD 232 as a general pre-requisite.**

### **BSAD 232: STATISTICS FOR MANAGEMENT 11**

**3 Credits**

Statistics for management 2 also known as inferential Statistics i the second aspect of statistics that deals majorly with hypothesis testing and other further statistical analysis such as probability distributions, index series, time series analysis that facilitates decision making bin the face of uncertainty. Expected values, estimation (probability applications), binomial distribution, poisson distribution, index numbers (price and volume indices), laspayre index, paasche index, fishers ideal index, X2 test of hypothesis. Yate's correction, student t- test of hypothesis. It solidifies the foundational prerequisites necessary to understand and appreciate more advanced studies in the quantitative subject area, which will facilitate a good grasp in the students' ability to employ suitable statistical models and techniques for business decision making problem that can be applied to real life situation. This course will emphasize on the importance of objectivity in the preparation and presentation of the statistical result. It will discourage manipulation of data in any form.

### **MKTG 242: SALES MANAGEMENT**

**3 Credits**

An examination of the basic sales processes necessary to achieve organizational objectives and the professional techniques use in the management of the sales force ranging from planning-recruiting to day-to-day management. Students will be made to understand that all men are accountable to God in all their activities, because God freely created all things and so has the right and power to rule all things and that He is the Ultimate Owner of all things and must be able to manage all. It will also emphasize on delivering goods and services as promised.

### **ACCT 203: COST ACCOUNTING I**

**3 Credits**

Objectives and purpose of cost accounting. The cost viz, historical cost, standard cost, marginal cost, average cost, etc, cost units and cost centers. The elements of cost and classification of costs. Cost Accounting for materials, labour overhead and equipment, job and process cost accounting; Elements of marginal costing, standard costing and budgetary control. Double Entry Accountings for cost control. A review of the history, principles and objectives (in terms of users) of cost of cost Accounting information for various users and levels of management as well as various types of business. Cost Accounting aspect of materials, labour and overheads. Integrated and uniform cost costing job (including Contract and Batch) costing. Process costing (detailed treatment of joint and by product as well as spoilage). Marginal costing. Break- even and cost volume. Profit analysis. Standard costing and budgetary control. Variance and variance analysis, quantity rate cost and efficiency variances. Behavioural aspect of cost accounting. Cost accounting information is needed for business decision making. Therefore, this course will emphasize the importance of honesty,

integrity, accountability, and responsibility in the preparation and presentation of cost accounting information.

**BSAD 244: FUNDAMENTALS OF INSURANCE**

**2 Credits**

A Study of the ways to uncover risk within organisation and the role of Insurance as risk management mechanism. The course elucidates on types of Insurance Cover, Canons of Insurance, Costs and benefits of Insurance, Pension Scheme, Reinsurance, Government regulations and Supervision of Insurance in Nigeria. As insurance agents, God has given the power to work hard and in this way we must help the weak and remember the words of the Lord Jesus, how he himself said, 'It is more blessed to give than to receive. It is against the backdrop of the challenges faced by managers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and display servant leadership character in selling insurance policy and the exercise of intellectual freedom.

**LAWS 325: BUSINESS LAW I**

**3 Credits**

A course design to study the nature and social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations.(Spring) An understanding of the topics in this course will help students to be able to relate and carry out business in a moral and ethical manner.

**LAWS 326: BUSINESS LAW II**

**3 Credits**

Uniform commercial code, sales, commercial paper, secured transactions; creditors' rights and bankruptcy; agency; business organizations limited and general partnerships, corporations; government regulations. This is in line with the biblical principles of dealing fairly with business partners based on honesty, accountability, equity and justice.

**BSAD 311: RESEARCH METHODOLOGY**

**3 Credits**

Science and the scientific approach. Problems and hypotheses. Designs or research. Sampling, Methods of observation and data collection. Measurement/Scaling methods. Multiple regression analysis. Analysis of data and presentation of research reports. This course will emphasize the importance of methodology in creation and teach the students to systemically address issues and in a step by step way. Biblical principles of equity, justice, and fairness will be emphasized.

**BSAD 314: OPERATIONS RESEARCH**

**3 Credits**

A history of operations research; implementation results; of operation research results; formulation and graphical solution of linear programming problems, prototype linear programming models.As production and operation managers we should always be transparent in our quantitative dealings. We should never have anything to hide from one another. It is against the backdrop of the challenges faced by production and operation managers in the ethical decision-making process that would take into account the core values of the institution namely excellence and team spirit, honesty and transparency, and responsibility and the exercise of intellectual freedom.

**LAWS 322: COMPANY LAW**

**3 Credits**

Concept of corporate personality. Outline of the evolution of the Nigerian Company Law (1212 to date). Types of Incorporation of Companies (under the 1968 Company Law).Raising and maintenance of capital-shares, debentures, etc.

Company administration - duties of company directors and the company secretary, meetings and resolutions, accounts and reports, concepts of corporate democracy, reconstruction, mergers and take-overs, liquidation and dissolution. The scriptures requires us to be upright in all that we do. As such the principles of company law will help the student to understand how to carryout business in a legal manner.

### **BSAD 332: HUMAN RESOURCES MANAGEMENT**

**3 Credits**

Study of the personnel function, which includes the development of programs for recruitment, selection, performance evaluation, training, supervision, compensation, pensions, and government regulations.The course will give the students a broad knowledge in the field of human resource management, with basic understanding of Godly principles which centers on the welfare of believers, as well as non-believers in order to assist companies adapt to a quickly changing environment and to express the love of Jesus Christ to others in a competitive labor market.

### **MKTG 341: CONSUMER BEHAVIOUR**

**3 Credits**

Role of the consumer in marketing, group influence on consumer, culture context of consumer behaviour, social stratification, reference group and sub-cultural influence of individual: Predisposition, information processing, attitude change and persuasive communication: Nature of Communication: Decision Processes, Consumerism.The course will help students to be aware of the behavior God expects from His children, as they carry out their daily activities in a crooked and perverse generation. Students will also have an explicit understanding of basic theories and models of consumer behavior in both secular and faith-based organization.

### **MKTG 342: PROMOTIONAL STRATEGIES**

**3 Credits**

An analysis of the communication function of marketing. Advertising, public relations, sales promotions, and personal selling are examined to enable the student to design an appropriate and complete promotional strategy for the business organization. This course will enhance the ability of students to analyze the elements of the promotion mix such as; advertising, public relations, publicity, sales promotion and personal selling with emphasis on designing an appropriate and complete promotional strategy for the business organization. Also, the role of integrated marketing communication, importance of setting-up the right budget for promotional mix are examined to enable the students to apply this knowledge in propagating the gospel of Jesus Christ to all mankind in the 21<sup>st</sup> century.

### **MKTG 343: SERVICE MARKETING**

**3 Credits**

To enable the students to know the difference between tangible and intangible products and strategies related to them. Appreciate the applicability of marketing mix to Service Marketing. Understand the applicability of marketing concepts in relation to marketing of intangible products.

### **MKTG 345: PRODUCT DEVELOPMENT AND BRANDING**

**3 Credits**

To understand the basic process of product planning and development; to acquire the necessary skills and techniques for developing the products; to develop relevant competence in managing new and existing products.

**INSY 301: INTERMEDIATE SPREADSHEET****2 Credits**

Advance application of spreadsheet package as applied in business, adequate attention be paid to the use of spreadsheet in the various financial and costing methods like budgeting, payroll preparation, cash analysis etc., packages like micro-soft Excel, Lotus, Quatro-pro, DAC-easy, Peach tree, sage, quick books s be used etc. Any other topical issue. The principles learnt from this course will help make students accountable to God as the giver of wealth and in an orderly and sequential method.

**INSY 302: BUSINESS MICRO COMPUTER APPLICATIONS****2 Credits**

Study of micro computer database package including the use of other standard microcomputer software package such as D-base V of windows, D-base IV, Microsoft Word, Corel draw, Word perfect 8, Lotus 123 and integrated package, statistical package such as SPSS. A basic knowledge of micro computer application is to get students acquitted that during creation, God created man from the dust of the ground which symbolizes computer hardware. He then breath into man the breath of life and man became a living being which symbolizes computer software. The software controls the entire activities of the computer just as without the breath of life, man will die so also without the software a computer is useless

**ACCT 300: MANAGEMENT ACCOUNTING****3 Credits**

Budgetary system and controls including operational budget, cash budget, profit and loss accounts budget, balance sheet, capital budgeting and expenditure control, Responsibility accounting, system e.g. responsibility areas like cost centers, investment centers, profit centers performance evaluation in a divisionalized organization, standard costing; advanced variance, working back variances, operational and planning variances, control ratios and profit analysis, the use of models in decision making; application research and statistical and planning e.g. linear programming, PERT, learning curve, decision tree. Any other topical issue. As Management Accountants, we should always be transparent, hide nothing in discharging our responsibilities, therefore, let each one of us speak the truth with your business partners, for we are members one of another. To this end, the challenges faced by Management Accountants in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE 3 Credits**

Biblical Principles in Personal and Professional life establishes vision, direction and purpose. It fuels us, inspires us and gives us hope. When considering leadership in our personal and professional lives we should consider fundamental values and principles that inform our decision making. Keeping in mind as students and believers, that one of the most important leadership duties is to present ourselves before God as faithful and obedient students and servants. We should all strive to one day hear the words: Well done my good and faithful servant.

The course examines the principles that is the foundation for leadership and that should inform our decision making today: Understand the Primary Purpose for Your Leadership ~ Deuteronomy 6:5-6; Dedicate Yourself to the Word of God ~ Joshua 1:8-9; Be Confident about Who Informs Your Vision ~ Nehemiah 7:5a; Know Who to Trust ~ Psalm 37:5; Be Intentional About Protecting Your Heart ~ Proverbs 4:23; Appreciate the Value and Importance of Wise Counsel ~ Proverbs 11:14; Grasp What God Requires of Your Leadership ~ Micah: 6:8; Understand it is God Who has Appointed You as Leader ~ Ephesians 4: 1a; Be Wise About Your Leadership ~ 2 Timothy 1:15; Get Your Strength from God ~ Philippians 4:13; Realize Your Power Source ~ Matthew 7:7-8; Recognize Greatness is in Serving ~ Matthew 20: 26-28; Live by this Golden Command ~ Mark 12:30-31. It is our belief as a department that if you put these principles into

practice in your personal and professional life you will have great success, experience the joy of God and one day hear the words, Good and well done my faithful servant.

#### **MKTG 401: MARKETING RESEARCH**

**3 Credits**

A study of the role of research in marketing decision-making; research process, scientific methods; analysis and interpretation of research findings. As marketing researchers in God vineyard, we should do nothing out of selfish ambition or vain conceit, but in humility consider others better than yourselves. Every marketer carrying out research should look not only to his/her own interests, but also to the interests of others.

Based on the challenges faced confronting marketers in the business ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

#### **BSAD 407: ENTREPRENEURIAL DEVELOPMENT I**

**3 Credits**

This is a follow-up to Foundations of Entrepreneurship. Some key issues and concepts relating to the following will be taught and discussed - overview of entrepreneurship, entrepreneurship development theories; entrepreneurship orientation, Nigerian entrepreneurial environment, entrepreneurship process, forms of business ownership, business opportunity and constraints evaluation, strategic approach to entrepreneurship, business creation and planning, financial aspect of entrepreneurship/source of capital, entrepreneurship development in Nigeria, entrepreneurship marketing, private government agencies supporting and promoting entrepreneurship in small and medium enterprises, reflections from case studies.

As entrepreneurs in God vineyard, we should do nothing out of selfish ambition or vain conceit, but in humility consider others better than oneself. Every entrepreneur should look not only to his/her own interests, but also to the interests of others. Based on the challenges faced confronting entrepreneurs in the business ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

#### **BSAD 408: ENTREPRENEURIAL DEVELOPMENT II**

**3 Credits**

Study of small business management from empirical and theoretical perspective. Definitions, roles, legal requirements at start-up, ownership types/forms, theories of entrepreneurship development, management functions, roles, skills, environmental analysis. Further studies on business planning, resources determination, marketing/Marketing generic strategies, expansion strategies and success and failure factors. Family business and succession planning, women entrepreneurship, social entrepreneurship, business opportunity evaluation, concept of business and new value creation financing, issues on business growth, sources of funds, marketing, new opportunities for expansion, managing transition: from start-up to expansion.

As entrepreneurs in God vineyard, we should do nothing out of selfish ambition or vain conceit, but in humility consider others better than oneself. Every entrepreneur should look not only to his/her own interests, but also to the interests of others. Based on the challenges faced confronting entrepreneurs in the business ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

#### **MKTG 411: PHYSICAL DISTRIBUTION**

**3 Credits**

Logistics of the firm, physical distribution in an enterprise; traditional development of channel structure, channel functions of exchange. The exchange network, definition and characteristics of channel members,

channel behaviour and its management. The demand for customer service, the concepts of logistical warehousing, warehouse alternatives.

As Logistics managers, we should always be transparent in our physical distribution of goods and services. We should never have anything to hide anything from our business clients.

It is in respects of the challenges faced by Logistics managers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom

#### **MKTG 416: ELECTRONIC MARKETING**

**3 Credits**

This course is designed to introduce the students to basic principles of e-commerce, e-business and e-marketing, and to enable them acquire a clear understanding of how internet can be used as communication, sales, cost reduction, and brand building tool. The students should also be able to explain fundamental internet technology as well as its practical applications in the context of Nigeria economy.

#### **MKTG 422: INTERNATIONAL MARKETING**

**3 Credits**

Understanding the international environment: its cultural, economic, legal, and political aspects; markets and business customs; dealing with foreign governments and nationals; financing international business, protecting investments. As international marketing managers, we should always transact our marketing activities in the way of the good and keep to the paths of the righteousness. For the upright will inhabit the land, and those with integrity will remain in it. As a result, the challenges experienced by managers in the ethical decision-making process that would take into account the core values of the institution consisting of accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom

#### **BSAD 430: STRATEGIC MANAGEMENT**

**3 Credits**

This course gives an overview of all essential aspects of business policy and strategic management. The intention is to provide students with strategy insights; reflect on strategic dilemmas; and practice strategy tools to enable students to become strategic thinkers. The course will cover scanning of the business environment, strategy analysis, formulation of strategies at different levels of the organization, strategy implementation and strategy evaluation and control. We will also reflect on the purpose of organizations, their governance, and their role towards shareholders, stakeholders and society in general. All these will be discussed to operate successfully in the Nigerian business environment and globally. Various case studies in general management will be analyzed.

As managers we need to know that the earth is the Lord's and we are accountable to Him, we are mere stewards, every managerial activity should be carried out with the fear of God. It is against the backdrop of the challenges faced by managers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom. We as managers should not be domineering over those in our charge, but being examples to the flock.

#### **MKTG 431: STRATEGIC MARKETING MANAGEMENT I**

**3 Credits**

Application of the fundamental principles of management to the marketing function. The organization, planning, control and co-ordination and interaction of the whole marketing function (Product, physical, distribution, pricing and promotion). Marketing and social responsibility, consumer behavior, etc.

An overview of decision making skills in marketing. Textual material includes concepts and tools in structuring and solving problems. Case studies describing actual marketing problems for those concepts and tools to be employed in practice in the organization and its environments.

As managers we need to know that the earth is the Lord's and we are accountable to Him, we are mere stewards, every managerial activity should be carried out with the fear of God. It is against the backdrop of the challenges faced by managers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom. We as managers should not be domineering over those in our charge, but being examples to the flock.

### **MKTG 433: INDUSTRIAL PRACTICE AND SEMINAR IN MARKETING ANALYSIS AND DECISION MAKING**

**2 Credits**

This is designed to enable the students to have an opportunity to translate theoretical concepts and principles in Marketing into practical experience in the field of Marketing. To achieve the ability to demonstrate skills necessary to identify and analyse strategic marketing issues. Evaluate critically alternative strategic responses to management problems. Understand the input of various sub-divisions of management (i. e. marketing finance) to corporate planning issues.

As managers, we should always be transparent in quantitative and marketing dealings. We should never have anything to hide from our customers. We should always be transparent and fair in strategic marketing issues. Based on the challenges faced by managers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom.

### **MKTG 441: PURCHASING MANAGEMENT**

**3 Credits**

Introduction/overview ; Definition of purchasing to business, Core concept in purchasing: importance of purchasing to business, Purchasing goods classification, Characteristics of industrial markets, A comparison of industrial and consumer markets; The decision making Unit (DMU), The purchasing process, Variable that affect the buying process, Role played by individual in the DMU; buying situations and typology, Negotiation and the negotiation process, Commercial and legal terms and condition, E-procurement and its advantages and risks, Purchasing management: Definition primary tasks and responsibilities, Purchasing management process, Differences between Goods and services; classification of services, Mid-Semester Examination, Purchasing process for services, Public procurement nature; principles and procedures of public procurement, Public procurement regulations in Nigeria, Market structures types (supply-side), Market structure (Demand side), Supply market research subjects, Supply market research reasons, Purchasing and innovation, Purchasing and quality management, Materials requirement planning; supply just-in-time management/ economic order quantity (EOQ), Purchasing information system, Final Examination.

As purchasing managers and agents of an organization, we should always walk in integrity so that we will be delivered, but he who is crooked in his purchasing transaction will suddenly fall. Based on this fact, the challenges faced by purchasing managers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, honesty and transparency, and responsibility and the exercise of intellectual freedom

### **BSAD 403, 404: ANALYSIS OF BUSINESS DECISIONS I, II**

**3, 3 Credits**

The course is to equip students with models for decision making in varying situations with a view to identifying the most efficient, economic cost effective, and profit yielding decisions in service and manufacturing organizations.

BSAD 403 is an introductory course to operational research (OR) as a decision-making problem-solving, science-based activity. The course is designed to introduce students to the concepts and methods of decision analysis, and operational research as an approach to decision analysis. This course will assist the students on how to make managerial decisions relative to scarce resources and yet achieve set organizational objectives. It will also provide a firm basis for the understanding and application of advanced techniques of what would follow in later courses.

BSAD 404 is a follow-up to the course on Analysis for Business Decisions 1, this course is designed to help students in understanding and applying some of the techniques of Operation Research (OR) in solving various management problems.

As business decision managers we should always be transparent in our quantitative dealings. We should never have anything to hide from one another. It is against the backdrop of the challenges faced by business decision makers/managers in the ethical decision-making process that would take into account the core values of the institution namely excellence and team spirit, honesty and transparency, and responsibility and the exercise of intellectual freedom.

#### **MKTG 490: RESEARCH PROJECT**

**6 Credits**

Independent study of a management topic approved by the department under the supervision of a lecturer in the department. As potential researchers/students, there is need to support the practice of intellectual freedom. This is understood as the freedom to pursue truth and showcase things as they are. In order for students to be able to truly pursue truth, they will need to see various sides of the issues.

It is against the challenges faced by researchers in the ethical decision-making process that would take into account the core values of the institution namely accountability and integrity, team spirit and honesty and the exercise of intellectual freedom.



## **DEPARTMENT OF FINANCE**



***Yimka S. A. ALALADE, Ph.D., MBA, FCIA, HCIB  
HEAD OF DEPARTMENT***

## **ACADEMIC STAFF**

<b>S/N</b>	<b>Faculty Name, Qualification &amp; Discipline</b>	<b>Academic Rank</b>
1.	Yimka S. A. Alalade, Ph.D., MBA, FCIA, HCIB (Finance)	Senior Lecturer

2. Nathaniel A. Folarin, M.Sc., FCIB (Banking)	Senior Lecturer
3. Abolade F. Akintola, M.Sc. FCIB, FCA (Banking & Finance)	Senior Lecturer
4. Peter I. Ogbekor, Ph.D., M.Sc. FCIS, FCA (Finance)	Lecturer I
5. Foloronso I. Akande, Ph.D., M.Sc. FCIB, FCA (Finance)	Lecturer I
6. Adeyemi S. Ogundipe, M.Sc., FCIB (Banking & Finance)	Lecturer I
7. James A. Oguntodu, Ph.D., M.Sc., ACIB, ACMR (Banking & Finance)	Lecturer II
8. Abimbola A. Cole, M.Sc., ACIB (Banking & Finance)	Lecturer II

#### ***ADJUNCT LECTURERS***

9. Rufus I. Akintoye, Ph.D., FCA (Strategic Fin. Mgt.)	Professor
10. P. O. Olanrewaju. Ph.D., FCIB (Fin. Regulation & Superv.)	Professor
11. E. O. Adegbite, Ph.D. (Intern. Finance)	Professor
12. Johnson A. Egwakhe, Ph.D. (Mgt. & Entrepreneurship)	Professor
13. Andy T. Okwu, Ph.D. (Financial Analysis & Econometric)	Assoc. Prof.
14. Isaiah O. Abolarin, Ph.D. (Research Design & Proposal)	Lecturer I

#### ***ADMINISTRATIVE STAFF***

15. Modupe Ariyo, B.Sc.	Conf. Secretary 1
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### **VISION STATEMENT**

Building leadership through Christian education; transforming lives, impacting society for positive change.

To achieve our mission, we are committed to:

1. Achieving excellence in our teaching, research programme and service delivery.
2. Impacting quality Christian education.
3. Instilling Christ-like character to the members of our community.

### **MISSION STATEMENT**

This Department which took off as a separate Department from the beginning of the 2004/2005 session is borne out of the University's unquenchable desire to provide an unrivalled and high quality Christian academic, vocational and professional education in Economics and Finance with a view to meeting the qualitative manpower needs of both national and international industries, public and private sector establishments and not-for-profit organizations through research and functional applications.

### **OBJECTIVES**

The Department offers courses leading to the award of Bachelor of Science Degrees in the areas of Finance. The degrees can only be awarded with honours. The objective of our B.Sc. Degree Programme is to prepare students for careers in business organizations (including blue-chip and multinational organizations), Academic and Research. Students for these degrees are prepared for efficient and effective service in diverse areas in both the Public and Private sectors.

### **PHILOSOPHY OF THE DEPARTMENT**

To train students to acquire knowledge in Finance and its subset such as Banking, Insurance and Investment, that will serve as tools to provide solutions to various economic and financial problems in the society both nationally and internationally.

### **DEPARTMENTAL REQUIREMENTS**

Students in this Department are required to complete 12 - 15 credits from the faculty in the areas of Business Communication, Business Management, Mathematics, etc.

### **ADMISSION REQUIREMENTS**

Candidates must have obtained 5 credits at not more than 2 sittings in 5 subjects including English Language, Mathematics, Economics, and any other RELEVANT social science subject (Commerce, Government, Financial Accounting or Geography) at SSCE or GCE Ordinary Level.

For the purpose of the minimum requirements in each Programme, the courses are categorized into three

- a. General Education Courses
- b. Core Courses
- c. Electives

Every student must take and pass each core (compulsory) course before he or she can be awarded a degree. General Education Courses are University courses outside the Department. Thus, students in the department must take such courses outside the department.

Elective courses will consist of a wide range of courses from which a student must select a given number of courses, which the student must pass before the award of a degree. Such would be additional and/or advanced courses that would not be required of all students, but from those specializing in such subject groups. Most of the electives however, would be outside the compulsory/required subject areas and could be from within or outside the Department and/or from within or outside the Faculty.

Cognate courses are to be taken from other Departments. For each course specified, the categories to which it belongs and weight (credits) attached are indicated. All courses are listed by the year in which they could be offered in the relevant programme. A credit in a course is defined as one contact hour of lecture/tutorial/seminar or three practical per week in a semester of 18 weeks.

### **REQUIREMENTS FOR GRADUATION**

A: A minimum of 130 credits including all compulsory and specified number of elective courses.

B: A minimum of 24 credits in courses outside the Department

A minimum of 152 credits (for 4 years) is required before a student could graduate in the programme.

### **SUB-DIVISION OF COURSES INTO LECTURE-TUTORIAL-PRACTICAL:**

All students in the Social Sciences should take a minimum load of 16 credits per semester. It is important that tutorials be held for students in small groups. There must be at least one tutorial for two lecture hours. Thus, a course of one credit should comprise of 12 hours of lecture and 6 hours of tutorial or seminar.

#### **SUMMARY TABLE OF CREDIT LOADS**

<b>LEVEL</b>	<b>GENERAL EDUCATION COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON- DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
<b>100</b>	19	10	12	41

<b>200</b>	19	10	12	41
<b>300</b>	09	33	3	45
<b>400</b>	09	33	0	42
<b>TOTAL</b>	<b>56</b>	<b>86</b>	<b>27</b>	<b>169</b>

**B.Sc. (Hons) FINANCE  
100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Introduction to Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		

ACCT 108	Basic Accounting	-	3
ECON 101	Principles of Economics I	3	-
ECON 102	Principles of Economics II	-	3
BSAD 101	Principles of Management I	3	-
FNCE 132	Fundamentals of Business and Finance	-	3
FNCE 123	Financial Mathematics I	2	-
FNCE 124	Financials Mathematics II	-	2
FNCE 115	Introduction to Money and Banking	3	-
<b>TOTAL (41 Credits)</b>		<b>21</b>	<b>20</b>

**B.Sc. (Hons) FINANCE  
200 LEVEL COURSES**

2 <sup>ND</sup> LEVEL COURSES			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environment and Sustainable Development	-	2
GEDS 290	Spreadsheet and Digital Presentations	2	-
	CORE COURSES		
ACCT 201	Financial Accounting I	3	-
ACCT 202	Financial Accounting II	-	3
ECON 253	Principles of Micro-Economics	3	-
ECON 254	Principles of Macro-Economics	-	3

FNCE 211	Business Finance I	3	-
FNCE 212	Business Finance II	-	3
FNCE 215	Principles of Banking Regulations I	3	-
FNCE 216	Principles of Banking Regulations II	-	3
FNCE 222	Elements of Banking	-	3
FNCE 235	Financial Statistics	3	-
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

**NOTE: All successful students as per the C-GPA (3.80 and above) are to enroll for Industrial Mentorship Program (IMP), known as Graduate Volunteer Internship Program for three (3) months between June and August at the end of 200 level final examinations.**

**B.Sc. (HONS) FINANCE  
300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	2	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
FNCE 311	International Trade and Finance	3	-
FNCE 313	Banking Ethics and Corporate Governance	3	-
FNCE 315	Financial Information Systems	3	-
FNCE 325	Financial Management	3	-
FNCE 326	Quantitative Techniques	-	3
FNCE 328	Financial Systems	-	3

FNCE 338	Public Finance and Fiscal Policy	-	3
FNCE 343	Developmental Finance	3	-
FNCE 346	Small Business Finance	-	3
BSAD 354	Basic Business Communication	-	3
FNCE 365	Methods of Research	3	-
FNCE 382	Financial Economics for Banking	-	3
	<b>TOTAL (45 Credits)</b>	<b>23</b>	<b>22</b>

**NOTE: All successful students as per the C-GPA (3.80 and above) are to enroll for Industrial Mentorship Program (IMP), known as Graduate Volunteer Internship Program for three (3) months between June and August at the end of 300 level final examinations.**

**B.Sc. (Hons) FINANCE  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	<b>0</b>	<b>0</b>
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
GEDS 280	Leadership Skills	2	-
	<b>CORE COURSE</b>		
FNCE 431	Practice of Banking	3	-
FNCE 428	Corporate Finance	-	3
FNCE 432	International Banking and Finance	-	3
FNCE 443	Marketing of Financial Services	3	-
FNCE 451	Investment Analysis and Portfolio Management	3	-

FNCE 462	Comparative Banking	-	3
FNCE 471	Strategic Management in Financial Industry	3	-
FNCE 491	Bank Lending and Loan Administration I	3	-
FNCE 496	Risk Management for Financial Services	-	3
FNCE 499	Research Project	-	6
	<b>TOTAL (42 Credits)</b>	<b>21</b>	<b>21</b>

### **REQUIREMENT FOR PROFESSIONAL EXAMINATION (RPE)**

Practice of Banking; Law, Ethics and Corporate Governance; International Trade and Finance; Bank Lending and Credit Administration; Management of Financial Institutions; and Financial (Banking) Regulation and Supervision.

#### **NOTE:**

- The RPE above: are to be taken by students after successful graduation in Banking and Finance.
- This may not necessarily require extra semester.

## **B.Sc. (Hons) FINANCE COURSE DESCRIPTIONS**

### **ACCT 108: BASIC ACCOUNTING**

**3 Credits**

History and Development of Accounting. The nature and scope of accounting, the role of accounting, users of financial statement; introducing statement of Accounting Standard 1 & 2 (S.A.S. 1 & 2), the accounting functions and its relationship with the information statement of organizations, accounting functions and its relationship with the information system of organizations, accounting procedure and systems, Basic documentation process, double entry book-keeping system, the trial balance, Accruals, Pre-payments and adjustments, Books of prime entry and recording in the ledger, classification of expenditure entry and recording in the ledger, classification of expenditure entry recording in the ledger, classification of expenditure between capital and revenue items, methods of recording accounting data; manual and mechanical, bank reconciliation statement, preparation of debtors and creditors statement. Accounting for fixed assets acquisition, depreciation, disposal and fixed assets schedule, extended trial balance and correction of errors using suspense account, extend trial balance and correction of errors using suspense account and journal, account of a sole trader. Reserves and provisions, payroll accounting, preparation of



final accounts, manufacturing, trading, profit and loss accounts, balance sheet for sole-proprietorship; partnership and limited liability companies, partnership agreement, preparation of final accounts. Preparation of income and expenditure accounts and balance sheet or statement of affairs of non-profit making organization. Preparation of final accounts from incomplete records, simple joint venture accounts and others. Any other topical issue related to accounting.

**ECON 101: PRINCIPLES OF ECONOMICS I 3 Credits**

An introduction to the various issues in economics: the nature of economic science, the methodology of economics, major areas of specialization in economics, historical development of economic ideas, basic principles of micro and macro-economics, current issues of interest in economics and probable future development.

**ECON 102: PRINCIPLES OF ECONOMICS II 3 Credits**

Knowledge of basic concepts of economic principles; concepts and tools for economic analysis. Knowledge of the structure and functioning of economic institutions and various economic systems; national income accounting; the functions of money and policies for controlling inflation, the problem of business cycle.

**BSAD 101: PRINCIPLES OF MANAGEMENT I 3 Credits**

Examine the four elements of the management process: Planning, Organizing, Leading and Controlling. Identify principles to assist managers in adapting these elements to fit a variety of situations and enterprises. Reviews methods of improve the quality of managerial decisions in small and large, profit-seeking and not-for-profit organizations. Topics include management as a discipline, alternate organizational models, effective decision making, mission and strategy, operational strategy and adaptive planning.

**FNCE 132: FUNDAMENTALS OF BUSINESS AND FINANCE 3 Credits**

The scope of business; the character of business from social, legal and economic perspectives. Forms of ownership, organization and management. Marketing, Production, Finance and Accounting functions, government and business. The social responsibility of business. International business. Problems of Nigerian business enterprises. Introduction: Definition of Finance; Risk and Finance, Business organization; Scope of Finance Function; Sources of Business Finance. Financial Statement Analysis: Overview of Financial Statement, User of Financial Statements. Concepts of Financial Statement Analysis (ratios), Limitation of Ratio Analysis. Concepts of Time Value of money; simple interest and compound interest.

**FNCE 123: FINANCIAL MATHEMATICS I 2 Credits**

Mathematical Concepts in social sciences. Set theory and applications, Surds. Polynomials up to degree 3 and their factorization. Exponent, Indices and Logarithms. Equations and functions: Linear, quadratic, cubic, etc. Simultaneous equations, Trigonometry, Series and sequences, Inequalities, Matrices: Definition, types, operations with matrices, determinants and Inverse of a square matrix. Matrices and Simultaneous equations.

**FNCE 124: FINANCIAL MATHEMATICS II 2 Credits**

Introduction to Calculus – differentiation and integration. Rules of differentiation. Differentiation of various functions like linear, quadratic and cubic functions. Differentiations of trigonometric, Logarithmic, and exponential functions. Implicit and explicit functions. Economic application of differentiation: maximum and minimum Values. Rules of integration. Integration of various functions - Linear, quadratic, cubic, trigonometric, logarithmic and exponential functions, etc. The definite and indefinite integrals. Economic application of integration. Combination and Permutation.

**FNCE 115: INTRODUCTION TO MONEY AND BANKING****3 Credits**

Origin of Money; Definition of Money; Functions of Money; Types of Money; Origin of Banking; Definition of Bank; Who is a banker? Classification of Banks; Banking Services, Savings and Investment; Money creation by Banks.

**(a) Evolution And Structure of Nigerian Banking System:**

Types of Banking Institutions - Central Bank, Merchants Banks, Commercial Banks, Universal Banks, Development Banks; Non-financial Institutions features, e.g. Insurance Companies, Pension funds, Finance Houses—The distinguishing similarities, Differences, importance and Functions of these financial Institutions.

**(b) Evolution and Structure of Financial Markets in Nigeria**

Money and Capital Markets – Instruments of trade and participants in the markets. The Stock Exchange—Players in the market, e.g. Bulls and Bears. Securities and Exchange Commission, the First and Second Tier markets. Requirements for listing in the markets.

**(c) Evolution And Structure of International Financial Institutions**

World Bank and its affiliates, International Monetary Funds and its conditionality. European Union, Economic Community of West African States, African Development Bank; African Bankers' Association, West African Clearing House.

**ACCT 201: FINANCIAL ACCOUNTING I****3 Credits****Pre-requisite: Review of Principles of Accounting I**

Advanced partnership accounts, admission and retirement, partner's change of interest including valuation and treatment of goodwill and revaluation, assets amalgamation and absorption, conversion of company in to partnership, dissolution of partnership, including piece meal realization, distribution, conversion of partnership into limited company.

**ACCT202: FINANCIAL ACCOUNTING II****3 Credits****(Students are expected to have passed Financial Accounting I before taking this course)**

Company accounts, formation, issue and redemption of shares and debentures, final account for internal use & publication including cash flow/fund flow statement. Five year financial summary, value added statement etc. including statutory requirement of company accounts in respect to each area; miscellaneous accounts; joint venture, royalties, consignment, farmers, Goodson Sales or return, departmental accounts, branch accounts (Home/Local branches), solicitors accounts, voyage, underwriting, cooperative accounts.

**ECON 253: PRINCIPLES OF MICRO-ECONOMICS****3 Credits**

Microeconomic theory: problem of scarcity and allocation of resources in product and factor markets with application to Nigerian and other economies. Concept of equilibrium, disequilibria, partial and general equilibria analyses. Demand and Supply theory. Concept of elasticity: types, numerical value of elasticity coefficient and interpretation. Application of scarcity to microeconomic problems. Cobweb theory: Introduction to the concept of dynamics. Consumer behavior and utility maximization. Production theory. Cost Theory. Cost Curves. Market Structure: perfect competition, imperfect competition: monopoly, duopoly, oligopoly and monopolistic competition. Output and price determination under perfect and imperfect markets. Pricing of production factors.

**ECON 254: PRINCIPLES OF MACRO-ECONOMICS****3 Credits**

Meaning and scope of macroeconomics. Macroeconomic topics. Macroeconomic variables or indicators of an economy. Classical and Keynesian Schools of thought in macroeconomics. Stock and flow concepts in

macroeconomics. Tools of macroeconomic analysis – Models, variables and parameters. Measurement of economic activities - National Income Accounting. The concept of National Income – Gross Domestic Product (GDP) Gross National Product (GNP) and Net National Product (NNP). National Income Models and their components. National income equilibrium for various models. Marginal propensities and the multipliers. Stabilization of the domestic economy – monetary and fiscal policies. Inflation. Inflation and Unemployment: the Philip's Curve.

**FNCE 211: BUSINESS FINANCE I 3 Credits**

The nature and risks; the limited liability company. The firm and its objectives. The objectives of financial decisions. The finance function – investment, financing and dividend. Financial management as tools for planning and control of company operations. Principles of planning and control. Financing business. Sources of finance – Short term; medium term, long-term. The stock market; functions, meaning of market price, Market value and market participants. Information available to investors: economy, industry, and company information. Understanding company financial information: Ratio analysis. Mechanics of discounting - Compound interest, present value, annuities, terminal value and perpetuities.

**FNCE 212: BUSINESS FINANCE II 3 Credits**

This course deals with the Investment decisions of the firm under condition of Certainty or uncertainty. The problems of mutually exclusive projects, capital. Rationing and inflation, the measurement and usefulness of cost of capital. A decision and the relevance of dividend decision for the firm are discussed. Students will also be introduced to the concept of capital market efficiency and the pricing of capital asset.

**FNCE 215: PRINCIPLES OF BANKING REGULATIONS I 3 Credits**

A course design to study the nature and meaning of law, nature of social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations.

**FNCE 216: PRINCIPLES OF BANKING REGULATIONS II 3 Credits**

**(Pre-requisite-Principles of Banking Regulations I)**

Uniform Commercial Code, Sales, Commercial Paper, Secured Transactions, Creditors' rights and bankruptcy, agency, business organization, limited and general partnerships, corporation government regulations, any other topical issue.

**FNCE 222: ELEMENTS OF BANKING 3 Credits**

**Basic Concepts in Banking:** Typical Balance Sheet of Central Bank of Nigeria and Commercial Banks. The Regulatory Authorities (CBN, NDIC) requirements for Commercial Banks Assessment of various services offered by Banks. Cheques clearing system in Nigeria. The bank as catalysts in economic development. Foreign Exchange Market – guideline and method of operation. The role of Chartered Institute of Bankers of Nigeria and Financial Institutions Training Centre in Manpower development for the financial industry. Importance of Bankers' Committee and the Monetary Circulars to the banking industry. Importance of Bankers' Committee and the Monetary Circulars to the banking industry.

**BSAD 235: FINANCIAL STATISTICS 3 Credits**

Handling statistical, collection of statistical data, primary and secondary data, discrete and continuous data, sources of secondary data (advantages and disadvantages), internal and external sources of data-mail, questionnaire, interview, observation, telephone (advantages and disadvantages of each method), sampling methods simple random strategies, systematic quota multi stage cluster(advantages and disadvantages),

errors, accuracy and approximation, types of errors: absolute relative, biased, unbiased, laws of error including simple calculation of errors, sum, difference, product and quotient, tabulation and classification of data tabulation of data including various bar charts, pie charts, ogive, frequency/polygon, histogram, Z-charts, lorenez curve. Standard, coefficient of variation, quartiles, quartiles deviation and skewness (all of both grouped and ungrouped data) estimation of quartiles and percentiles from Ogive.

### **FNCE 313: BANKING ETHICS AND CORPORATE GOVERNANCE 3 Credits**

Statutes and regulations governing the establishment and running of banks in Nigeria, e.g. BOFID, NDIC Decree. **Agency** - Types and Creation; rights and duties of principles and agents, principles and agent to third parties, banker as agent, special classes of agents.

**Business Regulation and Law** – Distinguishing features of partnership, formation and dissolution, registration of business names, partnership property and its application on dissolution. **Companies and Company Law** – formation, types of shares, debentures, borrowing powers authority of directors, winding up of companies, classes of creditors in winding up. **Bankruptcy** – Acts of bankruptcy, procedure leading to adjudication, distribution of property available, invalid assignment of property, discharge of bankrupt. **Negotiable Instruments** – essentials, drawing, issue, acceptance, negotiation, collection and payment of bills of exchange, bankers' draft and conditional orders, crossings, countermand of payment of cheques. Corporate Governance such as nature, meaning, principles, codes, etc. National and International codes of corporate Governance relating to banks such as Cadbury reports 1992, SEC code 2011, etc.

**Nature of Ethics** – Moral responsibility, ethical standards and business effectiveness; Ethical decision-making and assumptions; developing ethical awareness; the concept and canons of ethics. **Special Responsibilities of Manager** – Responsibilities of the firm, Social responsibility to the customers, shareholders and the society. **The Ethical Banker** – Conflict of interest, Acceptance of gifts, insider trading, honesty and confidentiality; whistle blowing and loyalty duties. **Instilling Ethical Standards in Organizations:** Banking codes of ethics, Inter-bank transactions, CIBN professional code of Conduct and professional discipline: Offences and penalties under BOFID, NDIC Decree, Advance fee fraud, Economics and Financial Crimes Commission Law. The role of the boards and shareholder such as identification of role and responsibilities, common law duties of directors, classification of boards etc., self-regulatory mechanism in financial services industry such as meaning of self- regulation, self-regulatory organs, function of self-regulatory organizations, etc.

### **FNCE 311: INTERNATIONAL TRADE AND FINANCE 3 Credits**

Concept of International Trade; International Finance, benefits of International Trade; balance of Payment; Theory and Payments, International Monetary organization, Foreign Trade multiplier, the foreign exchange market, Method of Payment in International Trade; Trade Facilities institutions including banks and non-banks, e.g. IMF, NEXIM, ECGD. The roles of International Economic Union in International Finance e.g. West Africa Monetary Union, European Monetary Union; International Units of Account including ECOWAS Travelers cheques, EURO, SDR; Offshore investment. International Financial Markets and Centres; International Financial Instruments and Securities; Guidelines for International Investment in Nigeria.

### **FNCE 325: FINANCIAL MANAGEMENT 3 Credits**

Brief review of introduction to business finance investment decision, types of investment decisions. Capital budgeting and investment appraisal. Management of working capital, share valuation, amalgamations and takeovers, valuation of business. Financial statements analysis, effect of taxation and other government policies on investment and financing decision. Intra-company and inter company performance evaluations

problems of transfer, pricing financing imports and exports, effects of inflation on financial management and reporting capital structure; dividends and retention policy; Modigliani; and Miller's theory. Management of risk and uncertainty; alternative attitude of risk, portfolio theory, capital assets and prices of models. Emphasizes basic concepts and analytical tools for financial decision-making and in understanding the market environment in which firms operate. Possible topics include the concept of organizational goals and the selection and preparation of information essential to financial planning and controls of firms' separations, such as cost estimation and analysis, cost-volume-profit analysis, budgeting and budgetary control, variance analysis and cost.

**FNCE 326:                      QUANTITATIVE TECHNIQUES                      3 Credits**

The course employs techniques from other mathematical sciences, such as mathematical modeling, statistical analysis, and mathematical optimization, operations research arrives at optimal or near-optimal solutions to complex decision-making problems. It is concerned with determining the maximum (of profit, performance, or yield) or minimum (of loss, risk, or cost) of some real-world objective. It also encompasses a wide range of problem-solving techniques and methods applied in the pursuit of improved decision-making and efficiency, such as simulation, mathematical optimization, assignment and transportation techniques, queuing theory, linear programming, replacement analysis, network analysis, and other stochastic-process models, Markov decision processes, econometric methods, data envelopment analysis, neural networks, expert systems, decision analysis, and the analytic hierarchy process. It is a course that helps to determine which of these techniques are most appropriate given the nature of the system, the goals for improvement, and constraints on time and computing power.

**FNCE 328:    FINANCIAL SYSTEMS                      3 Credits**

Overview of the financial sector; Nature and functions of different types of financial institutions; Classification of financial institution; Financial structure, financial development and real development. Banks and non-banks as financial intermediaries; the financial intermediation function; Role of money and finance in economic development; financial intermediaries and the saving investment process on banks. Financial intermediaries and effectiveness of monetary policy; the evolution and structure of the Nigerian financial system; Evolution, structure and function of financial market in Nigeria. Instruments of the financial markets. The course is to inculcate an understanding of the relationship between the financial and non-financial sector of the Nigerian economy. The nature and functions of different types of financial institutions inter-mediators in the economy. These institutions include The Central Bank, Commercial Banks, Merchant Banks, Development Banks, Investment Companies, Insurance Companies, etc. Roles, Functions, Evolution, Structure and Performance. Universal Banking, Rural Banking, Financial Markets, i.e., money market and capital market. The relevant regulatory / supervisory authorities. Roles, Functions, Structure and Performance. Current trends in the banking: international and economic development institutions ADB, NEXIM, SME, NERFUND, Trade Bank, IMF, Nigeria Trust Fund. Other financial institutions such as Insurance, Finance houses, Beureaux de Change, Primary Mortgage Institutions (PMIS). Nigerian stock exchange and its various listing techniques and documentations. Establishment and the role of NDIC.

**ECON 338:                      PUBLIC FINANCE AND FISCAL POLICY                      3 Credits**

Introduction to public finance, National Income Accounting (GDP, GNP and N.I), government macroeconomic objectives, Concept of leakages and injection in an economy, multiplier, public debt, government budgeting and revenue allocation, the rationale of government interventionist and stabilization policy, taxation and the tax system, introduction to fiscal policy, fiscal policy learning objectives, using fiscal policy to manage the economy, effectiveness of fiscal policy, efficiency of a tax system, sources of Nigerian Federal government revenue and public debt. Development of Nigerian federal finance, meaning and scope of

public finance, main issue in federal finance structure, structure of public revenue and expenditure in Nigeria, financing public sector enterprises, problems of public debts in Nigeria, processing of budgetary(federal and state) governments in Nigeria, public sector financing and good governance.

### **FNCE 343: DEVELOPMENTAL FINANCE**

**3 Credits**

Development finance has occupied the front burner in the financial services delivery globally. The following course contents can be considered as a vital curriculum for the course:

- Developmental Financial Institutions such as: Federal Mortgage Bank of Nigeria; Primary Mortgage Institutions; Merchant Banks; Insurance Companies, Pension Fund Administrators and the custodians; Micro Finance Banks; Bank of Industry (BOI), Bank of Agriculture(BOA); Infrastructure Development Bank; Nigeria Export/ Import Bank(NEXIM), and Africa Export/Import Bank.
- The definitions, concepts, advantages and disadvantages of these institutions including their role in economic development should be clearly explained.
- Structures and types of services being provided by these development finance institutions.
- The role and functions of other specialized financial organizations such as the NGOs and other unofficial market operators like cooperatives, ESUSU, etc. The advantages, benefits and disadvantages should be explored.
- Services such as short, medium and long term financing of projects; identification and financing of innovations, creativity and development of the economy. They should also be involved in preparation of feasibility studies, project planning and evaluation.
- Finance and operation lease arrangement, sales and lease bank system, different types of leasing, concepts and definition, advantages and disadvantages.

### **FNCE 346: SMALL BUSINESS FINANCE**

**3 Credits**

A study of the growth of modern enterprises and their internalization; government participation and intervention in business and an appreciation of winning and growth strategies for the modern enterprise, entrepreneurial theories; international or personal characters and behavioral traits of entrepreneurs; financial aspects of entrepreneurship in which business success is commonly reflected. External aspects of entrepreneurship; introduction to small business and entrepreneurship, forms of business ownership; financial management: planning; analysis of financial statements; profit, profitability and break even analysis; working capital management; time value of money; capital budgeting/capital structure; personal finance; inventory management and control.

### **FNCE 354: BASIC BUSINESS COMMUNICATION**

**3 Credits**

A study and application of the modern practices in oral and written business communications, accuracy in grammar, spelling and punctuation and the writing of well-knit sentences and clear paragraphs are taught as means of effective expression in business letter writing, any topical issues.

### **FNCE 365: METHODS OF RESEARCH**

**3 Credits**

Definition of research, process of research, features of research, purposes of research, natures of research, challenges of research and problem of conducting research in Nigeria. The role of research in development. The uses of different statistical procedures including survey methods. Correlation and regression analyses. Skills of scientific Investigation, information gathering, analysis and interpretation in dealing with business and organizational behavior problems in Nigeria; the art of problem identification and analysis, data gathering, analysis and report writing; the problems and prospects of business research in a seller's market like Nigeria. Definition and scope of financial research.

## **FNCE 382: FINANCIAL ECONOMICS FOR BANKING**

**3 Credits**

The nature and functions of financial intermediation: The process of financial Intermediation; An overview of Nigeria financial system, Types of Banking institutions and their functions, e.g. Central Bank of Nigeria, Commercial Banks, Development Banks; Bank Balance Sheet and liquidity management; Tools of monetary policy, Fundamental. Theories of money including classical, monetarist and Keynesian, Analysis of Inflation and Exchange Rate System; Trading and Reserve currencies, e.g. gold, Special Drawing Rights (SDR). The role of IMF in managing international liquidity; reason for the globalization of financial market; Balance of payment definition and composition; international financial institutions, e.g. ADB, EU, ECOWAS, Financial and Economic Policies and Institutions of the government, e.g. NDIC, BOFID, EFCC – their roles in the financial system of the country.

- The nature and functions of financial intermediation. The process of financial intermediation.
- Quantity theory of money: classical economists approach; Cambridge school approach and Keynesian money demand theory.
- Monetary policy: IS/LM curves. Monetary policy objectives; quantitative and qualitative instruments. Monetary management by the Central Bank of Nigeria.
- Objectives of Fiscal policy; expansionary fiscal policy and contractionary fiscal policy
- Savings and Investment: determinants of savings, marginal propensity to save, marginal propensity to consume.
- The role of IMF in managing international liquidity. Exchange rate policy. International Financial Institutions i.e. African Development Bank.
- Financial and Economic Policies and Institutions of the Government e.g. Nigerian Deposit Insurance Corporation (NDIC), BOFIA, EFCC their roles in the financial system of the country.

## **FNCE 401: PRACTICE OF BANKING 1**

**3 Credits**

**Banker Customer Relationship** - General and special relationship between banker and customer, banker's rights and duties; Duty of secrecy; customer's right and obligations special relationship between bankers and customer e.g. indemnities, power of attorney, mandates, standing orders, safe custody, direct debits etc.

1. **Types of Account Holders** – Opening and conduct of account for all customers e.g. minors, executors, administrators, trustees, clubs, and societies, religious organizations, partnerships, limited liability companies etc. procedure for closing accounts.
2. **Banking Transactions** – Payment and collection of cheques and other instruments. The Bankers clearing system. Protection given to Bankers under the law. Termination of bankers' authority to pay customers cheques in various situations e.g. on receipt of court injunctions, countermand of payments etc.
3. **Termination of Banker – Customer Relationship:** Action to take on death, mental disorder and bankruptcy of customers, dissolution of partnership, winding up of corporate customers, upon receipts of garnishee order or summon, etc.

## **FNCE 428: CORPORATE FINANCE**

**3 Credits**

This is the study of key institutions and operators in the financial markets and their roles, nature and operations of corporate bodies, types, formation, meetings resolutions proxies, investments in money and capital markets instruments, types, calculations of yields, breakeven periods, investment analysis and portfolio management, practice of corporate finance, financial environment appraisal, capital issues, loan syndication, venture capital, debt management, financial derivatives such as options, futures, warrants convertibles and swaps.

**FNCE 432: INTERNATIONAL BANKING AND FINANCE****3 Credits**

Correspondent Banking: Use of Nostro-Vostro accounts, means of settlements; Travel and electronic money transfers facilities; Nigerian foreign exchange system and market; International foreign exchange system and market; Exchange; Exchange rate, mechanism. Types of exchange rate markets; future and forward rate, exchange rate movement and risks; hedging techniques commodity exchanges – off share investment, measuring of the risks of international investments, international financial markets and centre; international financial instruments and securities; methods of raising issues in international market; the role of SEC in international investment.

**FNCE 443: MARKETING OF FINANCIAL SERVICES****3 Credits****Overview of Marketing of Financial Services**

Marketing concepts and definition, Marketing Philosophies; Marketing of financial services and Marketing of goods compared; Characteristic of financial services, Elements of marketing; Variables in financial services strategies.

- **Marketing Mix** – Product – Definition and types; Product development and segmentation, product development strategies, New Technology for bank product Development.
- **Pricing** – Definition of Types; Determinants of price; Initiating and responding to price changes; Pricing Strategy.
- **Place** – Channels of distribution, Direct and Indirect distribution, factors determining, Channel of distribution, constraints to choice of channels, Types of delivery system.
- **Promotion** – Advertising; definitions, types and basis for selection; personal selling: merits and demerits. Sales promotion; objective, tools, implementation and evaluation, Publicity; definition, objectives, sources implementation.
- **Public Relations** – Definition, reasons for PR, function of a PR, problems of PR in banks.
- **Customer Relations** - Concept of customer relations, customer services Management, changing trend in customer relations.

**FNCE 451: INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT 3 Credits**

Types of investment, government securities, investment earning and redemption; investment trusts, unit trusts, insurance companies, life assurances; key institutions in capital markets, stock exchange securities, trustee, public companies. Sources of finance-Disadvantages and advantages of each source. Time value of money, compounding methods; Discounting techniques, determination of interest rate and yields, sinking fund, Evaluation of projects, measurement and risk control. Objectives of portfolio management, models of stock Behavior. Theory of portfolio selection, data inputs for portfolio; computation of stock market indices; portfolio performance measurement and valuation; valuation of stock and shares.

**FNCE 462: COMPARATIVE BANKING****3 Credits**

The nature and functions of financial intermediation: Political economics of banking; Banking under Capitalism, Socialism, and Communism, Banking and religion; History and development of banking system; The British, American, Germany Japanese, Ghanaian, Nigeria banking systems. Islamic Banking System, etc. Political economy of banking. Banking under capitalism. Banks, Banking and Socialism. Universal



banking, Inter- country comparison of regulations and conduct of banks. Inter temporal comparison of banking in Nigeria.

**FNCE 471: STRATEGIC MANAGEMENT IN THE FINANCIAL INDUSTRY 3 Credits**

The nature of change, strategy and strategic management, strategic management process; formality in strategic management, strategic management pyramid/model; strategic versus other types of planning; developing work program and time table; Environmental Scanning; Internal analysis and position assessment, mission statement; strategy formulation, strategic information systems; strategic thinking.

**FNCE 491: BANK LENDING AND LOAN ADMINISTRATION I 3 Credits**

This is the study of principles of good lending; internal and external constraint to lending; types of facilities – short term, medium-term and long term; lending consideration for building /mortgage loans. Advance against produce, personal loan, sole trader, partnerships, limited liability companies etc. Assessment of strength and weakness of customer through analysis of cash budget. Profit and loss account balance sheet or statement of affairs. Need for credit control and administration. Loan monitoring and supervision, through loan disbursement and draw down. Management of bad debt-general consideration, classification of bad debts and recovery. The study of reconciliation of liquidity, profitability and solvency such as lending policies, lending concepts and guiding principles and practices, common credit cultures, credits standards. Also the interpretation and criticism of accounting statements, including cash flow statements, budgets, and cash flow forecasts for lending purposes, determining customers credits needs and terms.

**FNCE 496: RISK MANAGEMENT FOR FINANCIAL SERVICES 3 Credits**

- Definition, concepts and scope of risk management in financial services industry.
- Environment of Banking, recent changes in the banking environment such as globalization, conglomeration, reforms and various risk and opportunities challenges
- Events that created risks such as economic instability, corruption, technological development, market condition, labour condition, earthquake, flood, kidnapping, bombing etc.
- Types of risks in the financial services industry such as credit risk, business risk, market risk, liquidity risk, financial risk, operational risk, foreign exchange risks, reputational risk, Off Balance Sheet risk (OBS), Basel Accord I-IV on Banking risks. These risks should be evaluated and analysed with relevant banks and companies financial statements as it affects lending, credit and investment appraisal of various account holders.
- Main elements of risk management processes and strategies which include: Risk reporting, Risk Control, Risk mitigants and Buffer capital
- Some elements or theories of risk management strategies and control should be discussed.
- Central Bank risk management system policy and template for banks.
- Risk monitoring and control systems.

Basic concept of risk management, risk management at the corporate level, market-risk measurement, approaches for calculating Value at Risk (VaR), contribution of VaR and testing VaR results to ensure proper risk measurement, calculating capital for market risk, overcoming VaR's limitations, introduction to Asset Liability Management (ALM) and measurement of interest rate risk for ALM.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE 3 Credits**

Introduction of biblical principles in the management of Money and Banking: this fosters the attribute of not charging excessive interest on loan; discourages hidden charges but encourages the demonstration of integrity in practice. Elements of Banking, Principles of Law for Banking: these are the introduction of

Godly principles into how bank transactions are carried out. Business Finance, Banking Law, Ethics & Corporate Governance, International Trade and Finance & Financial Management: these substantiate the position of integrity in both the lending and borrowing, Basic Business Communication, Financial Economics for Banking, Practice of Banking, Management of Financial Institutions, Advanced Corporate Finance, Bank Lending and Loan Administration, International Banking and Finance, Marketing of Financial Services, Application of Biblical principles in Investment Analysis and Portfolio Management. Application of Biblical principles to Financial Planning Control and Strategic Management in Financial Industry: These educate students on how to focus on God while planning for future finances and investments.

**FNCE 499: RESEARCH PROJECT**

**6 Credits**

This is an independent study of a research topic, approved by the department, under the supervision of a lecturer in the department. Students are required to present and defend the project (proposal and final paper) before a departmental panel set up for a purpose.

**DEPARTMENT OF INFORMATION RESOURCES MANAGEMENT**



**BABALOLA Yemisi Tomilola (PhD)**  
**Head of Department**

**LIST OF FACULTY AND STAFF**

ALEGBELEYE Gabriel O., PhD	Professor of Records & Information Management
OPEKE Rosaline O., PhD	Professor of Knowledge & Information Management
HALISO Yacob , PhD	Professor of ICT & Business Information Management
OKORO Clara C.G., PhD	Professor of Library, Archives & Records Management
UNEGBU Vincent E., PhD	Professor of Library & Information Science
BABALOLA Yemisi T., PhD	Ass. Professor of ICT, Information Management
IKONNE Chinyere N., PhD	Senior Lecturer, Health Info. Management & LIS
AINA Rachael, F., PhD *	Senior Lecturer, Records & Health Info. Management
SOYEMI Opeyemi D., PhD	Senior Lecturer, ICT & Information Management
MADUKOMA Ezinwanyi, PhD	Senior Lecturer, Library & Information Studies
ONUOHA Doris U., PhD*	Associate Professor of Library Management
OJO Adebawale I., PhD*	Lecturer II, Health Information Management
OWOLABI Ruth O., PhD	Lecturer II, Health Information Management
OKORO Obinna J., PhD	Lecturer II, Business Information Management
ABOLARIN Mobolude, MSc.	Assistant Lecturer, Knowledge Management

\*On leave of absence

## **PHILOSOPHY**

In line with Babcock University's mission statement, the philosophy of the Information Resources Management programme is the development of graduates with expanded information management skill in data sourcing, retrieval, storage and management in an ethical and professional manner, to meet the need of end users in various organizational settings. This philosophy is based on an appreciation of the value of information in the contemporary society and the recognition of the critical role that information managers have to play in harnessing its potentials for personal, corporate and national development. The philosophy is also consistent with the goals of higher education as stated in the National Policy on Education (Sections 5 and 9) namely, the acquisition of intellectual capacities and proper value-orientation for the survival of the individual and the society.

## **MISSION STATEMENT**

To produce graduates who are skilled at managing information and associated technologies in various organizational environments through qualitative, Christian education.

## **OBJECTIVES OF INFORMATION RESOURCES MANAGEMENT**

In keeping with the mission of Babcock University, the objectives of the Bachelor of Science in Information Resources Management are to:

- Produce graduates who understand the basic principles of systematic acquisition, retrieval, storage and processing of all kinds of data useful for investment decisions.
- Prepare graduates with the ability to contextualize information management processes and creation of relevant data banks useful for academic and scientific research works.
- Produce graduates who understand the dynamics of the contemporary information society and are equipped with ethical and risk management capabilities to preserve such information for business and other uses in the society.
- prepare graduates to be information technology-literate, and responsible users of emerging technologies.
- produce professionals who can function effectively in the public and private sectors of the Nigerian society

- equip students with entrepreneurial skills to be job creators and employers of labour in the information industry.

## **JOB OPPORTUNITIES FOR GRADUATES OF INFORMATION RESOURCES MANAGEMENT**

Graduates of Information Resources Management have opportunity of working in a variety of information environments like records offices, archives, museums, libraries, publishing houses, information centers, banks, insurance companies, medical and health institutions, manufacturing companies, broadcasting organizations, non-governmental organizations (NGOs), law firms, telecommunication industries and international organizations such as WHO, UNDP, UNICEF, etc.

## **SCHOOLS THAT OFFER SIMILAR PROGRAMME**

Information Resources Management as a discipline was introduced into some American, European and African schools some decades ago. Those that readily come to mind include: University of Arizona School of Information Resources, Kansa's School of Library and Information Management, Berkeley School of Information Management and Systems (USA); University of Northumbria, University of Strathclyde, University of Sheffield (UK) and University of Natal in South Africa

## **ADMISSION REQUIREMENTS**

Candidates seeking admission into the undergraduate program of the Department of Information Resources Management must possess at least 5 "O" Level credits in at most two sittings. A credit in English Language and Mathematics is compulsory. Prospective candidates to Babcock University must sit and pass the university entrance (written and oral) examination.

## **DURATION OF THE PROGRAMME**

The Bachelor of Science in Information Resources Management program is planned for a period of four (4) years consisting of eight (8) semesters. Each semester consists of 16 weeks of formal teaching and assessments.

## **MINIMUM REQUIREMENTS FOR GRADUATION**

The general requirements for graduation are as follows:

1. Students must take a minimum of 186 credits and pass with at least a C grade. This will include all the core and required courses from 100 to 400 level. Each 3-credit course includes a scheduled compulsory one (1) hour practical per week.
2. Students must undergo a six (6) months industrial training at the information unit of any organization of their choice. The goal of the industrial training is to expose students to information management practices in organizational setting. Upon completion, they are to submit their log books and report of the knowledge and skills acquired during the training.
3. Finally, students must complete, defend and submit a research project duly supervised by a qualified member of staff.

**TABLE SHOWING MINIMUM CREDITS REQUIRED FOR GRADUATION**

<b>LEVEL</b>	<b>GENERAL EDUCATION COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON-DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
<b>100</b>	<b>17</b>	<b>15</b>	<b>12</b>	<b>44</b>
<b>200</b>	<b>17</b>	<b>26</b>	<b>6</b>	<b>49</b>
<b>300</b>	<b>7</b>	<b>38</b>	<b>-</b>	<b>45</b>
<b>400</b>	<b>7</b>	<b>41</b>	<b>-</b>	<b>48</b>
<b>TOTAL</b>	<b>48</b>	<b>120</b>	<b>18</b>	<b>186</b>

## **DEFINITION OF COURSES**

### **Core/ Compulsory Courses**

These are courses specified by the department which a student must take and pass with a minimum of 50 percent otherwise the course must be repeated. Core/ compulsory courses are courses which students must take and pass. Core/ compulsory courses constitute about 70 per cent of all the course units that students must take to complete the requirement for the BSc. IRM.

### **Elective Courses**

These are courses students are free to choose, as they desire. The students are required to do at least 3 of such courses giving a minimum of 6 credit hours.

### **Pre-requisite Courses**

A pre-requisite course is that which must be taken first and passed in order to enhance the understanding of subsequent course or courses.

### **General Education Courses**

General education courses are taken from any area regardless of student's specialization, with the aim of broadening the student's academic horizon.

### **Credit unit**

A credit unit is the equivalent of fifty minutes lecture/tutorial work per week per semester.

### **Course codes**

Computer Science courses	COSC
Departmental courses	IRMA
General Education courses	GEDS
Business courses	BSAD
Marketing courses	MKTG

**BSc. (Hons) INFORMATION RESOURCES MANAGEMENT**

**100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English 1	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in Global Culture	-	2
	<b>CORE COURSES</b>		
IRMA 104	Records & Information Management	-	3
IRMA 107	Fundamentals of Information Resources Management	3	-
IRMA 111	Introduction to Library and Information Science	3	-
IRMA 114	Information Literacy and Seeking Behaviour	-	3
IRMA 118	Reference Sources and Services	-	3
BSAD 101	Principles of Management I	3	-
BSAD 102	Principles of Management II	-	3
COSC 111	Introduction to Computer Science and Programming I L: 2, P:3	3	-
COSC 112	Introduction to Computer Science and Programming II L:2, P:1 3	-	3
<b>TOTAL CREDITS (44 Credits)</b>		<b>20</b>	<b>24</b>



**B.Sc. (Hons) INFORMATION RESOURCES MANAGEMENT**

**200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environment and Sustainable Development	-	2
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 280	Leadership Skills	-	2
GEDS 290	Spreadsheet and Digital Presentations	-	2
<b>CORE COURSES</b>			
IRMA 203	Theory and Organization of Knowledge	3	-
IRMA 205	Office Management Skills	3	-
IRMA 206	Business Information Resources	-	3
IRMA 221	Preservation and Conservation of Information Resources	3	-
IRMA 222	Cataloguing and Classification	-	3
IRMA 223	Application of ICTs in Information Resources Management	3	-
IRMA 225	Information Society	3	-
IRMA 226	Introduction to Knowledge and Innovation Management	-	3
COSC 226	Programming Techniques with VB.NET L:2, P:1	-	3
BSAD 231	Statistics for Management I	3	-
<b>ELECTIVE COURSES</b>			
IRMA 220	Academic and Special Libraries	-	2
IRMA 224	Public and School Libraries	-	2
<b>TOTAL CREDITS (49 Credits)</b>		<b>25</b>	<b>24</b>

**\*Students are to select one elective course in the second semester**

**BSc. (Hons) INFORMATION RESOURCES MANAGEMENT****300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E- Customer relationship Management	2	-
GEDS 312	Introduction to Family life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
IRMA 301	Indexing and Abstracting	3	-
IRMA 302	Research Methods in IRM	-	3
IRMA 316	Management Information Systems	-	3
IRMA 321	Collection Management	3	-
IRMA 323	Data warehousing and mining	3	-
IRMA 325	Administration of Libraries and Information Centers	3	-
IRMA 330	Web Design and Development	-	3
IRMA 331	Information Risk Management	3	-
IRMA 333	Archives Management	3	-
IRMA 335	Information Storage and Retrieval	3	-
IRMA 360	Practical Field Work	-	6
	<b>ELECTIVE COURSES</b>		
IRMA 320	Indigenous knowledge	-	2
IRMA 326	Community Information Services	-	2
	<b>TOTAL (45 Credits)</b>	<b>26</b>	<b>19</b>

**\*Students are to select one elective course in the second semester**

## BSc. (Hons) INFORMATION RESOURCES MANAGEMENT

### 400 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
GEDS 440	E-Project Management and Simulation	2	-
	<b>CORE COURSES</b>		
IRMA 401	Information System Analysis, Design and Evaluation	3	-
IRMA 402	Database Construction and Management	-	3
IRMA 404	Multimedia Information Resources	-	3
IRMA 415	Legal and Ethical Issues in IRM	3	-
IRMA 420	Organizational Culture and Change Management	-	3
IRMA 421	Information Products and Services	3	-
IRMA 423	Technical Writing and Reporting	3	-
IRMA 424	Managing Intellectual Capital	-	3
IRMA 427	Knowledge Management Tools and Techniques	3	-
IRMA 429	Economics of Information	3	-
IRMA 431	Strategic Information Management	3	-
IRMA 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
IRMA 416	Introduction to Book Publishing and Book Trade	-	2
IRMA 432	Digital Library	-	2
	<b>TOTAL ( 48 Credits)</b>	<b>25</b>	<b>23</b>

**\*Students are to select one elective course in the second semester**

## BSc. (Hons) INFORMATION RESOURCES MANAGEMENT

### COURSE DESCRIPTION

**IRMA 104 RECORD & INFORMATION MANAGEMENT**

### 3 Credits

Definition, concepts and need for records management; the records life cycle; methods of generating records; Federal Government registry system. Records distribution and utilization, Records maintenance, filing system, classification and coding; Decentralized systems, Manual, mechanical and automated systems; managing current and semi-current records; organizing a records center; conducting a records system audit, measuring performance, legal requirements for records management center; careers in records management.

**IRMA 111: INTRODUCTION TO LIBRARY AND INFORMATION SCIENCE    3 Credits**

Historical development of information science and its relationship to other disciplines; differences between data, information, communication and knowledge; the nature of information, forms of information, quality of good information, the information life cycle, the role and value of information in the society, Concept of information industry, information profession, information services. Origin and development of libraries, archives and information centers as socio-cultural phenomena; the role of libraries in the society; factors influencing the development of libraries; evolution of Nigerian libraries from pre-colonial to post independence period, development of archives and libraries in Nigeria; the general structure and problems of the library, archives and information science professions; Information technology and the emergence of modern libraries; the contributions of professional associations and regulatory bodies, international organizations and other external agencies to the development of the library.

**IRMA 107: FUNDAMENTALS OF INFORMATION RESOURCES MANAGEMENT 3 Credits**

Definition of concepts and scope of information resources management; types of information; value of information; information processing techniques; information users and types of information needs; information systems structure, and information delivery techniques; principles of information resources management, application of the principles in managing organizational information resources; planning and control issues relevant to information resources in organizations.

## IRMA 114: INFORMATION LITERACY AND SEEKING BEHAVIOUR

### 3 Credits

Definition, concepts and scope of information behavior; information seeking pattern of different groups; the role of culture and language in information seeking and processing; factors that determine information use, exploration of the Gatekeeper Model, theories and models of information behaviour. Types of information

resources available in the library, various search strategies, Evaluation of web resources; ethical considerations in information use.

### **IRMA 118: REFERENCE SOURCES AND SERVICES**

**3 Credits**

Definition of concepts, evolution, theory and objectives of reference services; reference questions; techniques of literature searching; abstracting and indexing services; current awareness; SDI and translation services; reference and information services in different types of libraries; organization and evaluation of reference services; status of reference and information services in Nigerian Libraries and information centers.

### **BSAD 101 PRINCIPLES OF MANAGEMENT I**

**3 Credits**

Defines and explains the nature of profit making organizations, examines the managerial functions, levels and skills. Defines and explains the nature of business. Identifies and explains the forms/types of business ownership/ organization, dimension of organizational structure. business ethics/social responsibility of an organization. The nature of business environment and its relevance for policy decisions to be made by the management of any organization. The basic concepts, principles and techniques of management. The concepts, principles and techniques in the solution of management problems. The objective of this course is to make the students understand that God the creator of human and material resources is the greatest Manager.

### **BSAD 102: PRINCIPLES OF MANAGEMENT II**

**3 credits**

Examines the four elements of the management process: planning, organizing, leading, and controlling. Identifies principles to assist managers in adapting these elements to fit a variety of situations and enterprises; Reviews methods to improve the quality of managerial decisions in small and large, profit-seeking and not-for-profit organizations. Topics include management as a discipline, alternative organizational models, effective decision making, mission and strategy, operational strategy, and adaptive planning. The principles learnt from this study/course will make the students to be God fearing, and better future servant-leaders.

### **COSC 111: INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMMING I L: 2, P:3**

**3 Credits**

An introduction to program methodology using the C programming language including computer usage within a UNIX environment, problem solving, algorithm development, control structures, arrays, program style, program design, code documentation techniques, and program correctness. Further study of

programming methodology by examining program specifications, design, coding, correctness and style with additional coverage of pointers and arrays. Other topics include character and strings, input & output formatting, structures. File processing. A number of programming exercises areas signed.

### **COSC112 INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMMING II L:2, P:1 3**

#### **3 Credits**

An introduction to program methodology using the C++ programming language including computer usage within a UNIX environment, C++ basic parts, problem solving, algorithm development, basic data types, control structures, arrays, Functions, searching and sorting. Basic class concepts- constructors/destructors, operator over loads, inheritance, program style, program design, code documentation Techniques, and program correctness. Procedural and Object-oriented programming. Other topics include file Processing, introduction to stacks and queues. Applications

### **IRMA 203: THEORY AND ORGANIZATION OF KNOWLEDGE**

#### **3 Credits**

Introduction to the theories and practice of bibliographic description and subject analysis. The course covers the organization of both print and electronic information including discussion and application of Anglo-American Cataloguing Rules 2<sup>nd</sup> edition revised (AACR2R), DDC and LCC. It will expose students to online cataloguing and other application of ICTs in cataloguing; catalogue maintenance and quality control.

### **IRMA 205: OFFICE MANAGEMENT SKILLS**

#### **3 Credits**

Overview of the office; general office functions and services; organizational culture; intra and inter-office communication. Office layout and design; office equipment requirements; safety in the office; written communication, meeting and conferences. arranging and servicing formal meetings; Multitasking office skill.

### **IRMA 206: BUSINESS INFORMATION RESOURCES**

#### **3 Credits**

Study of key sources of business information in accounting, business law, consumer information, finance, industry, international business, job information, management, marketing, small business, taxation, and related areas. Focus is on meeting the user needs for specific types of business information, including those of management executives and other professionals, entrepreneurs, individual investors, and researchers. The course emphasizes the use of value-added print and electronic resources, including business resources via the Internet; development of search strategy, building and managing a business reference collection, and reference services to the business community.

**IRMA 220****ACADEMIC AND SPECIAL LIBRARIES****2 Credits**

Definition, concepts and scope of academic and special libraries; institutional setting of academic libraries; organizational arrangement; standards; personnel; budgeting and fiscal management; development and organization of information resources; users and services, resource sharing; automation; communication and publicity; building and settings; systems coordination and evaluation. Origins and nature of special libraries; organizations, standards; types and level of collection; staff; user needs and services; Special Information Analysis Centers (SIACs) e.g. IITA, Chevron oil; NIIA, Development Policy Center (DPC), NISER etc.; Linkages, performance measurement and evaluation.

**IRMA 221: PRESERVATION AND CONSERVATION OF INFORMATION RESOURCES****3 Credits**

Definition, concepts and scope of preservation and conservation; consideration of the factors contributing to the deterioration of library materials of all kinds of media; The primary role of preventive care including good storage conditions; emergency planning and careful handling of collections. Standard methods of care and repairs as well as reformatting options; Challenges in preserving digital content and the implications for the future of scholarship; digital preservation.

**IRMA 222: CATALOGUING AND CLASSIFICATION****3 Credits**

Principles of Cataloguing; Development of cataloguing codes; Uses of AACR2 and general rules for description of various library materials; Choice and form of access point; Sears List of Subject Headings; Library of Congress Subject Headings and other subject analysis tools. Alphabetical and classified catalogues construction and use; DDC & LC; Classification schemes; Use of cutter tables.

**IRMA 223 APPLICATION OF ICTs IN INFORMATION RESOURCES MANAGEMENT****3 Credits**

History of computers; introduction to computer hardware and software, operating systems and system software; communication and computer networks. Consideration of the National Information Technology policy in Nigeria. Computer application in the information management profession. History, structure of library automation, software, packages and standards; Emerging Technologies, Practical use of Microsoft

Word, office suites such as word processing, presentation software, spreadsheets, database systems; Computer ethics and security, Virus issues etc.

**IRMA 224                      PUBLIC AND SCHOOL LIBRARIES                      2 Credits**

Definition, concepts and scope of public and school libraries; analysis of the objectives, services and techniques employed by public libraries. Philosophical and functional background of school library as an integral part of the teaching learning process; Guide to acquisition of instructional materials in school libraries and management trends in school library development. Problems of public library management and trends in public library development.

**IRMA 225                      INFORMATION SOCIETY                      3 Credits**

History and nature of the information society. Impact and potentials impact of information on society as a whole; focus on technological trends and social change; Basic ICT literacy, internet governance and policy for the information society. Ethical issues affecting the information society; access, privacy and confidentiality, freedom of information, ownership of information, information security digital divide etc.

**IRMA 226: INTRODUCTION TO KNOWLEDGE MANAGEMENT AND INNOVATION MANAGEMENT                      3 Credits**

Definition, concepts and scope of Knowledge Management (KM). The nature, types and characteristics of knowledge; intellectual capital; contemporary importance of knowledge and knowledge management; knowledge management lifecycle; knowledge management models (SECI model, Wiig model); socio-cultural issues related to managing and sharing knowledge (trust, communication, organizational culture and structure, organizational learning etc); technologies employed in knowledge management processes. The knowledge management process: knowledge creation, codification and transfer. Innovation management concepts, building competitive advantage through innovation in organizations.

**BSAD 231: STATISTICS FOR MANAGEMENT I                      3 Credits**

To introduce the students to: Basic Statistical Concepts and Theories. Computation and interpretation of basic statistical measures. To provide the students with quality and sound foundation in quantitative techniques that will enhance their competence and understanding in the relevant subject areas. This will imply a good grasp in the students' ability to employ the suitable statistical models and techniques for business decision making problems.



**COSC 226: PROGRAMMING TECHNIQUES WITH VB.NET L:2, P:1****3 Credits**

Introduction to Visual Studio.NET and VB.NET. Basic concepts in VB.NET programming. Development algorithms. Data types and variables. VB.NET operators and expressions. Output formatting. Control structures. Classes, methods and properties, arrays. Inheritance and exceptions in VB.NET. Windows forms and event handling. Dialog boxes, using controls. Database programming and applications. Prerequisite COSC111 and COSC112

**IRMA 301: INDEXING AND ABSTRACTING****3 Credits**

Definition, concepts and scope of indexing and abstracting; traditional and computerized approaches to indexing, abstracting; and thesaurus construction and maintenance. The nature and structure of indexes; indexing and editing procedures; types of indexes; index evaluation and professionalism. Consideration of abstracting techniques. Subject analysis and use of thesaurus and Subject Heading Lists.

**IRMA 302: RESEARCH METHODS IN IRM****3 Credits**

Definition of concepts, purpose and types of research; Identifying research problems, stating specific objectives, types of variables, stating hypothesis, Organizing preliminary reading, conducting a literature review. Data collection instruments, descriptive and inferential analysis, interpretation of results. Discussion of research findings, conclusion and recommendations. References, bibliography and appendices; Ethics of research.

**IRMA 316: MANAGEMENT INFORMATION SYSTEMS****3 Credits**

Definition and description of the structure and components of management support systems, including transaction processing systems, data processing systems, management information systems, decision support systems, expert systems, executive information systems, neural networks and Artificial Intelligence. Application of information systems to library and information services and various organizational settings. Strategies for achieving a successful information system will be discussed. Establishing information needs of managers; Selection and implementation of appropriate management information system packages.

**IRMA 320: INDIGENOUS KNOWLEDGE****2 Credits**

Definition, concepts and scope of indigenous knowledge system, characteristics and importance of indigenous knowledge; oral histories and traditions; Oral stories and literature; scientific knowledge versus indigenous knowledge; preservation and dissemination of Indigenous Knowledge; protecting indigenous knowledge; the special role of women; IT applications in the management of indigenous knowledge.

**IRMA 321: COLLECTION MANAGEMENT****3 Credits**

This course is taught to expose students to the principles of identifying, selecting, acquiring, managing and evaluating information resources for libraries, information centers and other information-based settings, in manual and digital environment. It will consider resource selection methods and aids; acquisition procedure, cooperation with publishers and book sellers; budgeting/control of book funds; weeding, and resource sharing (Inter-library loan).

**IRMA 323: DATA WAREHOUSING AND MINING****3 Credits**

The main concepts, components, and various architectures of Data Warehouse. Advanced data analysis and optimization of data warehouse design. Data warehousing and Online Analytical Processing (OLAP) tools. Applying data mining algorithms to retrieve highly specialized information or knowledge about the data stored in the Data Warehouse.

**IRMA 325: ADMINISTRATION OF LIBRARIES AND INFORMATION CENTERS 3 Credits**

Examination of the four elements of the management process (planning, organizing, leading, and controlling) as they apply to the management of information resources; Management theories and their application to library and information centers. Internal and external management issues in information centers. Internal issues include organizational behavior, organizational theory, personnel, budgeting, planning. External issues include organizational environments, politics, marketing, strategic planning and funding sources. Library planning and bookkeeping; Personnel management issues e.g. interviewing, hiring, training, communication, firing supervision, staff training, job analysis, work design and work environment; employee relations and human rights obligations etc.

**IRMA 326: COMMUNITY INFORMATION SERVICES****2 Credits**

Definition, concepts and scope of community information services; oral Information; community needs analysis; introduction to indigenous knowledge; information in support of millennium development goals.

**IRMA 330: WEB DESIGN AND DEVELOPMENT****3 Credits**

The course will cover topics including; webpage design, authoring, and evaluation; the use of the Internet as an information storage system. The web application will be done with the use of Hypertext Markup Language (HTML) and WYSIWYG program such as Macromedia Dreamweaver Visual design and proper

organization of interactive websites, including electronic commerce sites; software tools for creating web material; web design projects and critical analysis of existing website design and organization.

### **IRMA 331: INFORMATION RISK MANAGEMENT**

**3 Credits**

This course exposes students to the basics of information security namely various types of security problems; risk analysis, prevention, detection and reaction to security incidents; security policies access control, authentication, assurance and trust, information flow; network security, basic cryptography, Firewalls, E-mail security, web security etc. Legal and ethical issues in information security.

### **IRMA 333: ARCHIVES MANAGEMENT**

**3 Credits**

Survey of archival resources and special collections with attention to their organization, administration and their services with special reference to Nigeria. Management, care and servicing of manuscript and archival materials. Attention will be given to criteria for building an archival/manuscript collection in a repository, and the description and interpretation of its holdings in guides and catalogues for the use of researchers.

### **IRMA 335: INFORMATION STORAGE AND RETRIEVAL**

**3 CREDITS**

Introduction to the fundamental concepts of Information Retrieval System (IRS), differences between IRS, hypermedia systems and Database Management Systems (DBMS); Components of an information retrieval system, models of IR systems, Boolean, vector space, natural language, evaluation of retrieval products from both end-user and systems' points of view; Recall, precision and other measures for optimization of the retrieval process; networking and distributed IRS. IRS on the internet; transfer protocols for IRS, e.g. Z39, 50, and use of metadata.

### **IRMA 360: STUDENTS INDUSTRIAL WOK EXPERIENCE SCHEME (SIWES) 6 Credits**

This is a compulsory 6 months industrial training designed to expose students to the practical aspects of the Information Resources Management program. The aim is to enable students translate theoretical concepts and principles of the program into practical experience in the library, registry or the information units of some organizations. The students are to seek acceptance from recognized industries and/or information organizations which will be presented to the department through the departmental SIWES coordinator for approval.

### **IRMA 401: INFORMATION SYSTEM ANALYSIS, DESIGN, AND EVALUATION**

**3 Credits**

Definition, concepts and scope of information systems, analysis, design and evaluation; concepts and methods of information systems design and development with particular reference to library and information center applications. Emphasis is given to modeling of system functions, data, and processes of computer-based information systems including the development of small-scale information systems. Planning and financing of information systems, feasibility study, budgeting, cost-benefit analysis, outsourcing, change management and risk analysis, system evaluation techniques.

**IRMA 402: DATABASE CONSTRUCTION AND MANAGEMENT** **3 Credits**

Definition of concepts; introduction to the database approach; File management systems; information retrieval systems and database management systems. Database models; systems analysis for databases; System design for databases, conceptual and physical database design. Query languages; database management issues; data integrity, data security.

**IRMA 404: MULTIMEDIA INFORMATION RESOURCES** **3 Credits**

Definition, concepts and scope of multimedia information resources; nature and forms of audio-visual resources, evaluation, selection, management, and use of a wide range of low to high- tech media. Consideration includes access, organization, promotion, multimedia copyright, and censorship. Media literacy (visual and auditory), Basic sound, image and video design, capture, storage and integration to deliver multi-media information. Tools and techniques for sharing and dissemination of audio and visual elements- (PowerPoint, Word, Web pages); remote (video conferencing, streaming media) and emerging technologies. Theories of multimedia.

**IRMA 415: LEGAL AND ETHICAL ISSUES IN IRM** **3 Credits**

Definition of concepts, legal and ethical issues in the use of information resources; including intellectual property, and specific issues to related to internet and other digital media. The fundamental questions of right and wrong. The issue of the use and misuse of information; ownership of information; intellectual property rights; free or restricted access to information, assuring privacy and confidentiality; data integrity etc. Ethical principles applied to information professional's decisions and actions

**IRMA 416: INTRODUCTION TO BOOK PUBLISHING AND BOOK TRADE** **2 Credits**

Definition of concepts, types of books, evolution of book publishing, history of book publishing in Nigeria, the book publishing process, players in book publishing, challenges of book publishing, electronic/desktop publishing; self-publishing, book publishing law and policies, libraries, librarians and book publishing.

### **IRMA 418: KNOWLEDGE MANAGEMENT TOOLS AND TECHNIQUES      3 Credits**

Technologies to manage knowledge: artificial, intelligence, digital libraries, repositories etc; preserving and applying human expertise to knowledge based systems; using past history explicitly as knowledge: case-based systems; knowledge elicitation: converting tacit knowledge to explicit; discovering new knowledge: data mining; Text KM and text mining. knowledge discovery; systems that create knowledge; Knowledge capture systems: concept, maps, process modeling; RSS; Wikis; Delphi method; etc. knowledge sharing system; that is, systems that organize and distribute knowledge: ontology development systems; categorization and classification tools; knowledge application systems; systems that utilize knowledge.

### **IRMA 420: ORGANIZATIONAL CULTURE AND CHANGE MANAGEMENT      3 Credits**

The course will focus on the concept organizational culture and change: why culture matters; the dimensions of culture; sources of organizational culture (the influence of national culture); the leadership role in building, embedding and evolving culture. Organizational change: nature of change, planned and emergent change, models of change; External factors of change (Globalization, IT, national policies etc.) Internal factors of change (organizational structure, management style, culture, strategic orientation). Principles, approaches and processes for managing change, the effect of change on people and the types of behaviors expected of leaders in managing change, overcoming resistance to change and facilitating the transition process.

### **IRMA 421: INFORMATION PRODUCTS AND SERVICES      3 Credits**

Definition, concepts and scope of marketing information products and services; concepts and principles of marketing and strategic planning as they apply to libraries and information agencies; information brokering; packaging and repackaging; online information marketing/ information marketing in the digital age; marketing research principles; information product pricing; organizational orientations; marketing and communication strategies; marketing and information auditing; marketing information as a product as well as a service

### **IRMA 424: MANAGING INTELLECTUAL CAPITAL      3 Credits**

Concept of intellectual capital and its management as well as its critical importance in the success of knowledge and innovation management initiatives; types of intellectual capital (human, organizational structural etc.); different types of intellectual assets, how to identify intellectual assets (knowledge audit); how to visualize intellectual capital (knowledge mapping); creation of organizational memory; (tradeoff between incentives and control; capturing and codifying innovation; creating and maintaining a balance

between innovation and operating efficiency); creativity management and innovation support; how to measure the value of intellectual capital.

### **IRMA 423: TECHNICAL WRITING AND REPORTING**

**3 Credits**

The course introduces students to mechanics of good writing; appropriate use of tense, punctuation, abbreviation, paragraph development; principles of editing; formal and informal writing; executive summary writing and effective use of illustration-table, graphs, charts etc.

### **IRMA 429: ECONOMICS OF INFORMATION**

**3 Credits**

Information as a resource and a commodity; the economic value of information: information as a private and public good, social value of information, costing information goods versus non-information goods based on fixed, variable and marginal costing. Pricing and packaging of information goods; the link between value and price, pricing decisions etc.; Intellectual property and information sharing or exchange.

### **IRMA 431: STRATEGIC INFORMATION MANAGEMENT**

**3 Credits**

The course examines ways by which organizations use information technology to gain competitive advantage. Students will be introduced to the concept of strategic management, and its application in the adoption and deployment of relevant information systems and Information Technology management within organizations.

### **IRMA 432: DIGITAL LIBRARY**

**2 Credits**

Definition, concepts and scope of digital libraries; tools and skills for developing digital libraries. Metadata standards, interoperability, digital collection development; Digital library services; digitization software; digitization process, digital library policy and preservation of digital materials; Benefits and challenges of digitization.

### **IRMA 490: RESEARCH PROJECT**

**6 Credits**

Students will design, carry out, and present quality research projects under the supervision of lecturers in the department to demonstrate their understanding of research methods and application of the same in the information management field. Students are expected to apply Biblical principles of diligence, honesty and integrity in the conduct of the research. Prerequisite IRMA 302: Research Methods in IRM.

**SCHOOL OF NURSING SCIENCE**



*Prof. Ezekiel Olasunkanmi AJAO*  
**DEAN**



*Monica EMEA*  
**SCHOOL OFFICER**

## **VISION STATEMENT**

To transform nursing education, creating innovative learning environments that support excellence in education to advance the health of the people, transforming the nursing profession and changing the world for Christ.

## **MISSION STATEMENT**

The mission of the school is to provide high quality, broad-based nursing education that is based on Christian values. The school will prepare men and women of various ethnic and religious backgrounds to become dedicated and committed nursing professionals who are ready to advocate for the principle of preventive health care and are willing to take on leadership roles. They will be equipped with clinical skills and research capabilities that will make a difference in this generation. Emphasis will be placed on client-centered nursing care practices, and holistic approach to learning in the context that integrates faith and learning.

## **PHILOSOPHY**

In this twenty first, there has emerged a realization that the health care needs of our community are not being adequately met. As the society becomes more informed and increasingly aware of its fundamental rights, health care professionals must be adequately prepared to deliver the quality of care that is relevant, functional and acceptable for their clients.

Realizing the challenges of the new millennium and the complex nature of our society, we at Babcock University School of Nursing Sciences are committed to providing competent professionals for the Nursing education careers with a well-structured, broad-based professional training that is relevant and functional, reflecting a Christian orientation.

While upholding the importance of the highest academic standards, the uniqueness of Babcock University is to be found in the pursuance of the Seventh - day Adventist Philosophy of education that emphasizes the harmonious development of the academic, physical, psycho-social and spiritual potentials of students. The Department of Nursing Sciences believes that as we seek to develop high professional competence in our students, we also desire to integrate Christian values in preparing Nursing and Midwifery professionals, in harmony with our conviction of what Christian education should be, to appreciate the meaning of the full restoration of dignity, value and self worth to mankind. Therefore, in developing professional skills in our students we hold in high esteem the following values:

- i. Beneficence of God who provides all things in love
- ii. Sacredness of life: for life is precious and of inestimable price
- iii. Essence of true knowledge: all truth is God's truth
- iv. Dignity of labour as it is appointed unto us to serve humanity
- v. Faith: which means man's response to receive that which God provides him
- vi. Equity: all are created equal and should be treated with consideration
- vii. Respect for the beliefs, values and culture of others



viii. Integrity: matching faith with action.

## **OBJECTIVES**

The objectives of the school are to:

- Provide candidates with broad-based professional training that is relevant and functional, reflecting a Christian orientation.
- provide students with an education that will assist them in analyzing knowledge from the arts, sciences and humanities in the development of professional skills and the use of nursing theories in making nursing practice decisions.
- prepare nursing students who will demonstrate effective leadership and management skills using variety of communication techniques in the management of diverse nursing practice situations.
- produce nursing graduates with an orientation for preventive health care in harmony with universal philosophy of the World Health Organization (WHO) who can adapt teaching/ learning strategies to meet the specific needs of individuals, groups and communities with respect to wellness and illness concerns.
- prepare students who can articulate principles of consumer advocacy, accountability and responsibility taking into account pertinent ethical and legal implications in accord with the current standards of professional nursing practice.

Competences to be demonstrated by the graduate of bachelor of nursing science degree

Graduate will be able to:

- perform accurate assessment of client of various ages.
- make appropriate nursing diagnosis that are grounded on accurate data.
- develop appropriate plan based on the nursing diagnosis.
- implement nursing intervention to resolve the diagnosis.
- incorporate medical plan into nursing intervention supported by appropriate scientific theories and principles.
- communicate significant data to appropriate members of the health team.
- teach clients and others about health issues and concerns.
- initiate and conduct nursing research.
- participate in multidisciplinary research projects.
- serve as a change agent by constantly reviewing the total environment in which he/ she works.
- function as an advocate for the clients and the profession.
- demonstrate leadership qualities by recognizing his/ her own needs, work effectively as a member of a team, make decisions based on relevant data and institutional policies.
- demonstrate professional growth through participating in continuing education programmes.

## **ADMISSION REQUIREMENTS**

### **Candidates for the 5-Year Generic Nursing Programme**

Candidates seeking admission into the School of Nursing Science programme for the 5-year Bachelor of Nursing Science (BNSc) degree must satisfy the minimum university requirements for admission to the degree programme which includes an acceptable pass at the university screening test. They must in addition to the above, have a minimum of credit (C) level passes at the Senior Secondary School Certificate Examination (SSCE) or its equivalent in five subjects, at not more than two sittings, which must include English Language, Biology, Chemistry, Physics, and Mathematics.

**Candidates for the 4-Year RN Direct Entry Generic Programme or RN Direct Entry Pathway Programme must:**

1. be Registered Nurses (RN), Registered Midwives (RM) or candidates with Advance Level pass in Biology, Physics, Chemistry may be admitted by direct entry into 200 level provided they satisfy other University admission requirements. Students from Departments of Basic Medical Sciences may be accepted for transfer into 200 level 4-year RN Direct Entry Generic Program not RN Direct Entry Pathway program having fulfilled the School's transfer requirements.
2. be a Registered Nurse (RN) with the Nursing and Midwifery Council of Nigeria (N&MCN). In addition, possession of at least one post-RN certification e.g. Registered Midwife (RM), Registered Public Health Nurse (RPHN) or Registered Psychiatric Nurse would be an advantage for admission into the RN Direct Entry Generic Program/ RN Direct Entry Pathway.
3. possess satisfactory results at the Senior Secondary School Certificate Examination (SSCE) or its equivalent in five subjects, at not more than two sittings, which must include English language, Biology, Chemistry, Physics, and Mathematics.
4. satisfy the minimum university entry requirements which may include an acceptable pass at the university screening test.
5. submit official transcript of all nursing programmes to be used for the admission.
6. submit current license from the N&MCN at least 6-9 months expiry duration.
7. produce letters of reference from three people which may include the current employer.
8. have at least 2 years post-RN clinical experience (applicable to candidates for RN Direct Entry Pathway)

### GRADUATION REQUIREMENT

Requirement of 242 credits and passing the Nursing and Midwifery Council Registered Nurse Examination is needed for the award of the BNSc Degree. Direct Entry candidate requires less than the stipulated credits in harmony with the admission. The distributions of the credit requirement by level are as follows:

#### REQUIREMENTS FOR GRADUATION CREDIT LOAD FOR BNSc (HONS.) FROM 100 - 500 LEVELS

LEVEL	DEPARTMENTAL COURSES	GENERAL EDUCATION COURSES	NON-DEPARTMENTAL COURSES	SUMMER	TOTAL
100 (Pre-Nursing)	-	20	28	-	48
200	16	13	20	13	62
300	24	4	3	13	44
400	45	3	2	5	55
500	24	9	-	-	33
<b>TOTAL</b>	<b>109</b>	<b>49</b>	<b>53</b>	<b>31</b>	<b>242</b>

**EPRE-NURSING DEGREE  
100 LEVEL COURSES  
REQUIRED COURSES FOR INDIVIDUALS INTENDING TO ENTER  
NURSING PROGRAMME**

NURSING PROGRAMME			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS107	Introduction to General Psychology	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131, 132	Communication in English I, II	2	2
GEDS 134	Nigerian People in a Global Culture	-	2
GEDS 120	ICT Fundamentals and Office Production Management	-	2
GEDS 215	Fundamental of Christian Faith	3	-
	CORE COURSES		
BIOL 101, 102	General Biology I, II	3	3
CHEM 101, 102	General Chemistry I, II	3	3
MATHS 101	General Mathematics I	3	-
PHYS 101	General Physics I	3	-
PHSC 108	Introduction to Sociology and Anthropology	-	2
PHSC 122	Biostatistics and Informatics for Nurses	-	3
IRMA 112	Information and Record Management in Nursing	-	3
PLSC 103	Basic Concepts in Political Science	2	-
	TOTAL (48 Credits)	25	23

Student must successfully complete all 100 level courses before entering into the Nursing programme at the 200 level.

**BACHELOR OF NURSING SCIENCE (BN. Sc. Hons)**  
**200LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 200	Communication in French	2	-
GEDS 290	Spread Sheet and Digital Presentations	-	2
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
	<b>CORE COURSES</b>		
NRSG 222	Principles and Practice of Community Health Nursing I and Epidemiology	-	5
NRSG 212	Conceptual Basis for Professional Nursing	-	3
NRSG 213, 234	Fundamentals of Nursing I, II	3	3
NRSG 230	Fundamentals of Nursing Practice	-	2
ANAT 221, 224	Gross Anatomy I, II	3	3
PHGY 221, 222	General Principles of Physiology I, II	3	3
BCHM 201	Foundations of Biochemistry I	3	-
MBIO 201	General Microbiology I	3	-
GCPY 220	Developmental Psychology	2	-
	<b>TOTAL (49 Credits)</b>	<b>24</b>	<b>25</b>

\*Students will not be allowed to take any 300 level courses until they have successfully completed all the 200 level courses.

\*\*All RNs that are joining generic programme are exempted from 100 level courses.

**BACHELOR OF NURSING SCIENCE (BNSc. Hons)**  
**PRE 300 LEVEL (SUMMER)**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SUMMER</b>
NRSG 227	Adult Health/Medical-Surgical Nursing I	5
NRSG 318	Psychiatric/Mental Health Nursing I	3
NRSG 333	Family and Reproductive Health	5
**GEDS 215	Fundamentals of Christain Faith	3**
	<b>TOTAL (13 Credits)</b>	<b>13/16</b>

\* Student must successfully pass NRSG 227, 318 and 333 to proceed to 300 level courses

\*\* RN Direct Entry 4-year Generic students MUST register for GEDS 215.

\*\* 5-year generic students will not register for GEDS 215, the course was already taken in 100L.

**BACHELOR OF NURSING SCIENCE (BNSc. Hons)**

**300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	-
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 310	E-Customer Relationship Management	-	2
	<b>CORE COURSES</b>		
PATH 301	Pathology	3	-
NRSG 317	Emergency and Disaster Nursing	3	-
NRSG 319	Pharmacology in Nursing I	3	-
NRSG 320	Pharmacology in Nursing II	-	3
NRSG 323	Human Behavior in Health and Illness	2	-
NRSG 325	Maternal and Child Health Care Nursing I	5	-
NRSG 327	Adult Health/Medical-Surgical Nursing II	5	-

NRSG 360	Students' Industrial Work Experience (SIWES)	-	6
NRSG 436	Maternal and Child Health Care Nursing II	-	5
NUDT 328	Human Nutrition and Dietetics	-	3
<b>TOTAL (44 Credits)</b>		<b>25</b>	<b>19</b>

\*NRSG 360 – Students' Industrial Work Experience (SIWES) is from January to June.

\*\*All 300 level Nursing courses must be successfully completed before taking any Nursing course at 400 level.

\* \*\*GEDS 310, NRSG 320, NUDT 328 and NRSG 436 are post SIWES courses to be taken between July and August before proceed to 400 level.

### **BACHELOR OF NURSING SCIENCES (BNSc. Hons)**

#### **400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	GENERAL COURSES		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 430	Character Formation and Spiritual Growth	-	3
	CORE COURSES		
NRSG 427, 428	Adult Health/Medical-Surgical Nursing III, IV	5	5
NRSG 429	Research process in Nursing	3	-
NRSG 430	Research Seminar	-	1
NRSG 435	Psychiatric/Mental Health Nursing II	3	-
NRSG 440	Principles of Management in Nursing		3
NRSG 443	Principles and Practice of Community Health Nursing II, Environmental Health and Occupational Health	5	-
NRSG 446	Principles of Teaching and Learning with Practicum in Nursing	-	3
NRSG 447, 448	Maternal and Child Health Care Nursing III, IV	5	5
NRSG 452	Midwifery Clinical Practice I	-	3
NRSG 457, 458	Infant and Child Health Care I, II	2	2
ECONS 407	Health Economics	2	-
	Total (50 Credits)	25	25

\*Students will not be allowed to take any 500 level Nursing course until they have successfully passed all of their 400 level Nursing courses.

**BACHELOR OF NURSING SCIENCE (BNSc. Hons)**  
**PRE 500 LEVEL (SUMMER)**  
**CONCENTRATED CLINICAL PRACTICE (8 WEEKS)**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SUMMER</b>
<b>NRSG 470 **</b>	<b>Supervised Adult Health/Medical-Surgical Nursing Clinicals</b>	<b>5 units</b>

**\*\* Student must successfully complete NRSG 470 to proceed to 500 level courses**

**BACHELOR OF NURSING SCIENCES (BNSc. HONS)**  
**500 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	-	2
GEDS 280	Leadership Skills	2	
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
NRSG 500	Contemporary Issues in Nursing Practice	2	-
NRSG 527, 528	Principles and Practice of Community Health Nursing III, IV	5	5
NRSG 544	Midwifery Clinical Practice II	-	3
NRSG 590	Research Project in Nursing		6
	<b>*ELECTIVES</b>		
NRSG 525, 526	Primary Health Care Nursing I, II	(2)	(2)
NRSG 529, 530	Radiology and Radiotherapy Nursing I, II	(2)	(2)
NRSG 537, 538	Ortho-Rhino-Laryngological Nursing I, II	(2)	(2)
NRSG 541, 542	Operating Theatre Nursing I, II	(2)	(2)
	<b>TOTAL (34 Credits)</b>	<b>16</b>	<b>18</b>

**\*One elective course per semester as available**

**BACHELOR OF NURSING SCIENCES (BNSc. HONS)**  
**RN DIRECT ENTRY PATHWAY**  
**FIRST YEAR**

COURSE CODE	COURSE TITLE	SEMESTER		
		1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>
	<b>GENERAL EDUCATION COURSES</b>			
GEDS 001, 002	Citizenship Orientation	0	0	-
GEDS 131, 132	Communication in English I, II	2	2	-
GEDS 200	Communication in French	-	2	-
GEDS 215	Fundamentals of Christian Faith	3	-	-
GEDS 221	Introduction to Agricultural Science	2	-	-
GEDS 260	Environment and Sustainable Development	-	2	-
GEDS 270	Peace and Conflict Resolution	-	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2	-
GEDS 317	Religion and Social Ethics	-	-	3
	<b>CORE COURSES</b>			
ANAT 221	Gross Anatomy I	3	-	-
PHGY 221	General Principles of Physiology I	3	-	-
PHSC 108	Introduction to Sociology and Anthropology	-	2	-
PHSC 122	Biostatistics and Informatics for Nurses	-	3	-
IRMA 112	Information and Records Management in Nursing	-	3	-
MBIO 201	General Microbiology I	3	-	-
NRSG 212	Conceptual Basis for Professional Nursing	-	3	-
NRSG 222	Principles and Practice of Community Health Nursing I and Epidemiology	-	-	5
NRSG 318	Psychiatric/Mental Health Nursing I	-	-	3
NRSG 333	Family and Reproductive Health	-	-	5
BCHM 201	Foundations of Biochemistry I	3	-	-
PATH 301	Pathology	3	-	-
NRSG 470	Supervised Adult Health/Medical-Surgical Nursing Clinicals	-	-	5
	<b>TOTAL (64 Credits)</b>	<b>22</b>	<b>21</b>	<b>21</b>



**BACHELOR OF NURSING SCIENCES (BNSc. HONS)**  
**RN DIRECT ENTRY PATHWAY**  
**SECOND YEAR**

COURSE CODE	COURSE TITLE	SEMESTER		
		1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>
	<b>GENERAL EDUCATION COURSES</b>			
GEDS 001/002	Citizenship Orientation	0	0	0
GEDS 222	History and Philosophy of Science	-	-	2
GEDS 280	Leadership Skills	-	-	2
GEDS 310	E-Customer Relationship Management	-	2	
GEDS 312	Introduction to Family Life Education	-	-	2
GEDS 400	Introduction to Entrepreneurial Skills	-	-	2
GEDS 430	Character Formation and Spiritual Growth	-	-	3
	<b>CORE COURSES</b>			
ANAT 224	Gross Anatomy II	-	3	-
PHGY 222	General Principles of Physiology II	-	3	-
NRSG 320	Pharmacology in Nursing II	-	3	-
NRSG 325, 436	Maternal and Child Health Care Nursing I, II	5	5	-
NRSG 327	Adult Health/Medical-Surgical Nursing II	5	-	-
NRSG 430	Research Seminar	-	1	-
NRSG 435	Psychiatric/Mental Health Nursing II	3	-	-
NRSG 429	Research Process in Nursing	3	-	-
NRSG 440	Principles of Management in Nursing	-	-	3
NRSG 443	Principles and Practice of Community Health Nursing II, Environmental Health and Occupational Health	5	-	-
NRSG 446	Principles of Teaching and Learning with practicum in Nursing	-	3	-
NRSG 480	Supervised Field work in Community and Maternal and Child Health Nursing	-	-	6
	<b>TOTAL (61 Credits)</b>	<b>21</b>	<b>20</b>	<b>20</b>

**BACHELOR OF NURSING SCIENCES (BNSC. HONS)  
RN DIRECT ENTRY PATHWAY  
THIRD YEAR**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001/002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
GEDS 440	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
NRSG 427	Adult Health/Medical-Surgical Nursing III	5	-
NRSG 447	Maternal and Child Health Care Nursing III	5	-
NRSG 457, 458	Infant and Child Health Care I, II	2	2
NRSG 500	Contemporary Issues in Nursing Practice	-	2
NRSG 527	Principles and Practice of Community Health Nursing III	5	-
NRSG 590	Research Project in Nursing		6
ECONS 407	Health Economics	2	-
	<b>**ELECTIVES</b>		
NRSG 525, 526	Primary Health Care Nursing I, II	(2)	(2)
NRSG 529, 530	Radiology and Radiotherapy Nursing I, II	(2)	(2)
NRSG 537, 538	Ortho-Rhino-Laryngological Nursing I, II	(2)	(2)
NRSG 541, 542	Operating Theatre Nursing I, II	(2)	(2)
	<b>TOTAL (38 Credits)</b>	<b>21</b>	<b>17</b>

**\*One elective course per semester as available**

**NOTE: ALL COURSES TAUGHT IN THE SCHOOL OF NURSING SHALL FULFILL THE FOLLOWING:**

1. All courses shall have both classroom practical/clinical teaching components
2. All 200, 300 and 400 level students shall have supervised field work/ clinical during the summer following the completion of each of those levels
3. There will be no supervised summer field work for 100 level
4. The department may require supervised field work for 500 level students in readiness for their council examination
5. Students' industrial work experience (SIWES) would be fulfilled through the university established programme.

6. Clinical-based courses will have both theory and clinical components as specified below:
- 5 credit**-----3 hours of lecture and 2 hours of Clinicals.
  - 4 credit**-----2 hours of lecture and 2 hours of Clinicals.
  - 3 credit**-----2 hours of lecture and 1 hour of Clinicals.

## DEPARTMENT OF ADULT HEALTH/MEDICAL-SURGICAL NURSING



**Clara Olufolake LAWAL**  
*Ag. Head of Department*

### ACADEMIC STAFF

Salawu, R. A.	RN, Ph. D	Professor, Nursing
Ojewole, F.O.**	RN, Ph. D	Associate Professor, Nursing
Popoola, R.O.	RN, M.Ed, MSc., PhD	Senior Lecturer, Nursing
Lawal, C.O.	RN, M.Ed.	Senior Lecturer, Nursing
Farotimi, A.A.	RN, M.Ed, MSc., PhD	Senior Lecturer, Nursing
Wennie, J. S.	RN, PhD	Lecturer I
Nwaomah, E.E.	RN, MSc	Lecturer II, Nursing
Nwozichi, C.	RN, RM, RPHN, MSc, PhD	Lecturer II, Nursing
Olajide, T. E	RN, MSc.	Lecturer II
Adebiyi, J.A	RN, MSc.	Lecturer II
Gigi, M.D	RN, BNSc	Graduate Assistant

### ADJUNCT STAFF

Ojerinde, A.C.	RN, MSc	Lecturer II/Nursing
Lawal, O.A.	RN, MSc	Lecturer II/Nursing
Olaosebikan, G.A.	RN, MSc	Lecturer II
	RN, MSc	Lecturer II

Fafiyebi, I.O.

### CLINICAL STAFF

Hassan, A.	RN, M.Ed	Principal Clinical Instructor
Alabi, A.	RN, M.Ed	Principal Clinical Instructor

\*\*Leave

of

Absence

## **COURSE DESCRIPTIONS**

### **BIOL 101: GENERAL BIOLOGY I 3 Credits**

This course is taken at the department of Bioscience and Biotechnology. It would include characteristics of living and non-living things. Scientific methods to biology concepts, taxonomy of living organism microbes. Plants including field and herbarium methods, Morphology and life cycles of phyla and plant kingdoms. Cell concepts, structures, organization, functions and chemical and physical characteristics. Plants and tissues and organism systems. Elements of biological chemistry-aspects of organic, inorganic and physical chemistry relevant to biology

### **BIOL 102: GENERAL BIOLOGY II 3 Credits**

Course will be taken at the department of Bioscience and Biotechnology. Would include genetics and its scope. Mendel and his laws of inheritance. Physical and chemical basis of inheritance. Man as an object of genetics. Modifications of classical Mendelian ratios. Heredity and environment. Sex development, sex linkage and sex abnormalities. Mutations, heredity, eugenics and future of mankind.

### **CHEM 101: GENERAL CHEMISTRY I 3 Credits**

Course taken at the department of Bioscience and Biotechnology would include an introduction to atomic structure, development of electronic configuration of the elements. Stiochemistry and mole concept. The periodic classification of the elements. General study of one or two representative elements of groups in the periodic tables with emphasis on similarities and differences based on position of the elements

### **CHEM 102: GENERAL CHEMISTRY II 3 Credits**

Course would include principles: the gas law, kinetic theory of gases, Raoult's laws, Henry's law and molt determination. Thermo chemistry, chemical equilibrium, law of mass action, reaction rate and chemical energetic. Electrochemistry, ionic equilibrium. Theory of acids, bases, and indicators. Phase equilibrium study of one and two components systems.

### **MATH 101: GENERAL MATHEMATICS I 3 Credits**

Elementary set theory, subsets, union, intersection, complements, Venn diagrams, real numbers, integers, rational and irrational numbers, mathematical induction, real sequences and series theory of quadratic equations, binomial theorem. Circular measure, trigometric functions of angles of any magnitude, additional and factor formulae

### **PHYS 101: GENERAL PHYSICS I 3 Credits**

Propagation of light at plane and curved surfaces. The human eye photosensitive pigments in the eye, color vision and the insect eye. Optical instruments, ophthalmoscope and compound microscope. Radioactivity and useful effects of radiation. Current and static electricity, introductory magnetism and alternating currents. Introductory atomic physics and electronics.

**Lecture-Practical-Tutorial-Clinical (L-P-T-C)**

### **PHSC 108: INTRODUCTION TO SOCIOLOGY AND ANTHROPOLOGY 2 Credits**

Course taken in the department of Public Health. Course examines, describes and analyses the social structure and dynamics of human society. Explains the important roles of sociology, anthropology and other social sciences across the spectrum of disciplines. Areas of emphasis include social structure and institutions, problems of social organization, population, societal as

well as collective behavior, social movement and ideology. The uses of sociology and anthropology are explained.

**PHSC 122:            BIOSTATISTICS AND INFORMATICS FOR NURSES            3 Credits**

Course is taken at the department of Public Health. Would equip students with the necessary tools and skills for collecting, analyzing, and interpreting data quantitatively. Topics to be covered include: central role of statistics in health science disciplines, data description, elements of probability, description of random variables, applications of the binomial and normal distributions, estimation and confidence intervals, contingency tables, regression and variance analysis, study design and hypothesis testing.

**IRMA 112:    INFORMATION AND RECORD MANAGEMENT IN NURSING            3 Credits**

Course taken at the department of Information Resource Management. Covers need for records management, the record's life cycle, methods of generating records; Federal Government Registry system. Record distribution and utilization; records maintenance, filing systems, classification and coding, decentralized systems, manual, mechanical and automated, managing semi-current records; organizing a record center, establishing standards and conducting a record system audit; measuring performance; legal requirements for records management.

**PLSC 103: BASIC CONCEPTS IN POLITICAL SCIENCE            2 Credits**

The course introduces the student to social organization and mechanisms of government. It stresses the needs and problems of politics as they affect Nigeria, Africa and health professions. Introduction to political science and African politics, dependence, struggle for independence of African states. Politics in Africa as it affects the development of African people and health professions. Nigerian politics as it affects the nursing profession. Elements of administration, rule of law, role of executive, legislature and judiciary. Political parties and pressure groups. The role of media is discussed.

**ANAT 221:    GROSS ANATOMY I            (2-1-0-0)            3 Credits**

This course is taken at the department of Anatomy. Would include Upper limb, thorax, Abdomen, Pelvis and Perineum; Upper Limb: Pectoral Region, Cubital Fossa, Carpal Tunnel, Hand, Nerve Injuries, Shoulder, Elbow and Wrist Joints. Osteology of the Pectoral Girdle and Free Limb Bones, Vascular, Nervous Systems and Lymphatic Drainage of the Breast and Upper Limb. Thorax: Intercostal Spaces, Mediastinum, Diaphragm, Osteology of the Ribs and Thoracic Vertebrae. Abdomen: Anterior Abdominal Wall and Associated Structures. Pelvis: Rectum, Prostate, Urinary Bladder, Uterus, Pelvic Floor, Blood Vessels, Nerves and Lymphatic Drainage of the region. Osteology of the Lumbar Vertebrae and Pelvic girdle, Perineum.

**ANAT 224:    GROSS ANATOMY II            (2-1-0-0)            3 Credits**

Course taken at the department of Anatomy would cover lower limb, Head and Neck, CNS). Lower limb, gluteal region and femoral triangle, the thigh, leg and foot. Hip, knee, and mid-tarsal joints. Blood vessels, nerves and lymphatic drainage of the region. Osteology of the lower limb. Head and Neck. Triangles of the neck, parotid region, nasal cavity, oral cavity, pharynx, larynx, orbit, eye ear, mechanism of hearing, smell, vision and taste. Osteology of the skull and cervical vertebrae. CNS, brain, cerebellum and cerebrum, cranial nerves.

**PHGY 221: GENERAL PRINCIPLES OF PHYSIOLOGY I (2-1-0-0) 3 Credits**

Course taken at the department of Physiology would include understanding of normal functioning of the human system, maintain equilibrium between internal and external environments, review of cell and its properties including cell division, functioning of the digestive system, mechanism of defecation, blood and the cardiovascular system, body fluid mechanism, the endocrine system, respiratory and gas transport system, breathing mechanism and control of respiration

**PHGY 222: GENERAL PRINCIPLES OF PHYSIOLOGY II (2-1-0-0) 3 Credits**

Course taken at the department of Physiology would cover renal physiology including urine formation and hormonal influences, maturation, the skin and general homeostasis, reproductive system physiology Membrane physiology and special senses Mechanism of force production; functional adaptations of muscles. Functional organization of CNS, the limbic system and autonomic nervous system. Functions of neurotransmitters and the nerve impulses physiological properties of synaptic transmission. This course combines the study of at least four (4) systems together by highlighting the major aspects as needed by the departments involved. It is a combination of excellence (homeostasis), integrity (Renal and Endocrine systems) and commitment of the body systems to one another. These connote Babcock University core values. The systems taught in this course can be buttressed by Genesis 9:7, Judges 4:19, Luke 1:31, Luke 11:34-36, John 4:14, Romans 12:20, I Corinthians 8:1, I Corinthians 12:12 and Hebrew 5:14.

**NRSG 212: CONCEPTUAL BASIS FOR PROFESSIONAL NURSING (3-0-0-0) 3 Credits**

Theoretical and conceptual frameworks relevant to nursing practice such as general system theory, Roy's adaptation theory, Orem's self-care nursing model and other theories such as Maslow's hierarchy of needs, Erikson's developmental theory, Roy's adaptation theory. Community health nursing theories and maternal child nursing theories. Application of nursing theories to nursing research, practice, education, and administration. Introduction to Christian legal and ethical principles applicable to nursing practice with emphasis on personal integrity of the nursing profession in the process of moral decision making. An introduction of the concept of nursing process and its components as well as communication skills will be highlighted.

**NRSG 213: FUNDAMENTALS OF NURSING I (3-2-0-0) 5 Credits**

The course will provide an introduction to the philosophy, ethics, history and trends in nursing. It will also discuss concepts of health and illness as well as that of basic human needs. Emphasis will be placed on the concepts, skills, and the attributes fundamental to professional nursing practice within a framework of clinical decision making balancing the biblical injunctions with the ethical and legal issues that govern nursing practice. Basic nursing procedures to promote and enhance the general wellbeing of the patient/client will be taught. The role of nurses in delivering care with team spirit and accountability will be explored.

**NRSG 220: FUNDAMENTALS OF NURSING PRACTICE 2 Credits**

Students are posted to the clinical setting areas for practical experience in performing basic nursing skills and providing spiritual care under the supervision of clinical instructors and preceptors. The clinical experience provides exposure to utilizing autonomy and responsibility principles guiding the nursing profession. Students participate in all the routine activities of the

clinical setting. Detailed knowledge of the principles, use and maintenance of patient assessment and treatment apparatus e.g. thermometer, otoscope, sphygmomanometer, stethoscope etc. The position of nurses in providing skilled nursing care utilizing good communication skills needed to bring clients/patients to the master healer will be emphasized.

### **NRSG 227: ADULT HEALTH/MEDICAL-SURGICAL NURSING I (3-0-0-2)**

#### **5 CREDITS**

Use of the nursing process in applying foundational concepts and skills in planning and providing nursing care for individuals. Considers human responses to commonly encountered illnesses, including pathophysiological processes and treatment approaches. Emphasis on God as the creator and sustainer of human kind and holistic nature of the adult client in response to acute and chronic illnesses. Laboratory experiences provide opportunities to apply theory and develop skills in the care of individuals in structured clinical settings. Basic concepts and terms applied in medical-surgical nursing, especially in relation to normal body functions. Acute and chronic conditions affecting the individual such as inflammation, pain, fluid and electrolyte imbalance, shock, etc.; elementary skills in diagnostic processes in nursing using physical assessment etc. Practice in clinical settings will run simultaneously. Also included is the care of geriatric population with or without multiple system failure, making informed and accountable choice and respecting the freedom of others

### **NRSG 234: FUNDAMENTALS OF NURSING PRACTICE II (3-1-0-1) 3 Credits**

The focus of the course is to advance the students' knowledge and to sharpen their skills in performing procedures that will further promote safety, comfort and excellent quality nursing care for the patients/ clients. The role of nurses as a co-worker with God in preventing and promoting health will be discussed. The course will also cover first aid and will also emphasize the development of various psycho-motor skills needed to perform basic procedures in nursing. Students will be introduced to intermediate and advance nursing procedures in the clinical laboratory. Learning experience will include demonstration of basic professional clinical skills in the care of patients.

### **BCHM 201: FOUNDATIONS OF BIOCHEMISTRY I (2-1-0-0) 3 Credits**

Course taken at the department of Biochemistry would cover experimental discoveries and the history of biochemistry. Brief review of the contributions of the following biochemists to the subject: Newberg, Emil Fisher, Warburg, and others. Structures and functions of major cell components; Prokaryotic versus Eukaryotic organisms. Buffers, acidity and alkalinity; pH and pKa values and their effects on cellular activities. Chemistry and structures of cellular macromolecules carbohydrates, proteins, lipids and nucleic acids and their components. Methods of isolation and characterization of cellular macromolecules.

### **MBIO 201: GENERAL MICROBIOLOGY (2-1-0-0) 3 Credits**

Course is taken at the department of Bioscience and Biotechnology. Historical aspects including origins and scope of microbiology. Introduction to various forms and characteristics of microorganisms including bacteria, viruses, fungi, protozoa, and algae. A brief account of their growth, reproduction, and distribution in nature, their relationships to each other and other living things and their beneficial and harmful effects on human. Control of microbial pollution involving both physical and chemical agents.



**GCPY 220: DEVELOPMENTAL PSYCHOLOGY (2 Credits)**

Emphasis in this course is on development from conception through childhood and adolescence. Theories of learning, Psychology of education and the Nurse. Human growth and development. The Nature and structure of intelligence, individual difference, determinants of health behaviour.

**PATH 301: PATHOLOGY (3-0-0-0) (3 Credits)**

Introduction to ancient traditional and modern concepts of disease and their causes. The normal cell and cellular basis of disease. Tissue and cellular injury. Reaction to cellular injury-inflammation. Healing and repair. Disturbances of cell growth-cellular adaptation and neoplasia. Cytogenetics and genetic disorders. Pigmentary disturbances. Calcification and amyloidosis. Disorders of nutrition.

**NRSG 319: PHARMACOLOGY IN NURSING I (3-0-1-0) 3Credits**

Overview of the major drug classifications, introduction to the therapeutic use of drugs in the maintenance and strengthening of the client. The course will impart knowledge on the understanding of making informed and accountable choices in the administration of drugs. Basic principles of pharmacology; sources of drugs, classification of drugs, essential drug concept, principles of drug administration and therapeutic effects of drugs, adverse drug reactions drug interactions and toxicology; pharmacological basis for the use of therapeutic agents in the care of patients with clinical conditions affecting all the systems of the body, clinical implications in the context of patho-physiological considerations, pharmacological principles and nursing implications of therapeutic agents. Explore the importance of nursing profession as advocate in promoting standard.

**NRSG 320: PHARMACOLOGY IN NURSING II (3-0-1-0) 3 Credits**

This course is designed to enable the student acquire the knowledge of the derivation, action and functions of drugs on the system of the body including their responsibilities as nurses during drug administration. The students will also acquire knowledge on derivation and standardization, classification of drugs, administration and body's reaction to drug therapy, principles of therapy, prophylaxis and control of viral, parasitic and bacterial infections. The culture of excellence in drug administration and enhancing quality of life for individual through honesty and moral upright as exemplified by the master Jesus.

**NRSG 323: HUMAN BEHAVIOUR IN HEALTH AND ILLNESS (2 Credits)**

This course is designed to enable the student acquire the knowledge of a socio-psychological determinants of health behaviour. It enables her initiate compliance behaviour by utilizing the principles of guidance and counselling. Human development, culture factors and behaviour: beliefs, taboos and behaviour in health and illness. The health-illness continuum. The socialization process: Development of personality and character formation; Roles identity and role function. Patterns of marriage and child rearing practices. Group dynamics, leadership, group norms, interpersonal relation, and communication. Principles and techniques of guidance and counselling.

**NRSG 327: ADULT HEALTH/MEDICAL-SURGICAL NURSING II (3-0-0-2)****5 Credits**

Use of the nursing process to design, implement, and evaluate therapeutic nursing interventions for individuals undergoing medical and/or surgical treatment for commonly occurring illnesses. Laboratory experiences provide opportunities to apply theory and develop skills in the care of individuals, primarily in surgical settings. Will build on what was covered in Medical-Surgical Nursing I, providing further understanding in the care of geriatric patients and adults with diverse medical and surgical problems exploring and sharing the love of God. An in-depth study of pathophysiology of different body systems, assessment and diagnosis, formulation and implementation of relevant nursing care based on the assessed needs of the clients would be covered. It will also acquaint students with pursuit of truth in healthful living and applying knowledge to health and diseases.

**NUDT 328: HUMAN NUTRITION AND DIETETICS (2-0-0-0) 3 Credits**

Historical perspectives of Nutrition and Dietetic as a science, Classification of foods, their nutritional values and effects on health, with emphasis on local foods. Provision of balanced (Adequate) diet and use of food composition table. Also to be covered in the relationship between digestion and absorption of food. Identification of the relationship between nutrition and body. Principles of diet therapy in different disease conditions with emphasis on chronic diseases. Exploring the effects of with emphasize on God's original intention for the type of food to consume and make accountable choices. According to Ellen G. White in her book titled "Counsels on Diet and Foods". The Lord will teach many in all parts of the world to combine fruits, grains and vegetables into foods that sustain life and will not bring disease. Daniel 1:12 emphasizes the need for wholesome food that can ensure longevity and promote good health.

**NRSG 360: STUDENTS' INDUSTRIAL WORK EXPERIENCE (SIWES) 6 Credits**

Students will be posted to Clinical areas for fundamental of Nursing Supervised Fieldwork, Community Health Nursing and Psychiatric Health Supervised Fieldwork which will last for 6months uninterrupted. Continuous assessment of students will be undertaken jointly by their hospital based supervisors, ITF officials and institutional supervisors. Finally, students are expected to present a seminar on major duties performed and skills acquired during the training. Grades are allotted according to ITF directives. The SIWES include the following:

**Fundamental of Nursing supervised fieldwork (0-0-0-2) 2 credits**

The course emphasizes the application of theoretical knowledge of medical/surgical nursing to the practice of nursing care. Integration of knowledge acquired in the classroom to the care of patients with acute and chronic medical/surgical conditions. The students will be in clinical training under the guidance of the faculty members in different medical/surgical units according to the student special area. The course provides the students with the opportunity to utilize the knowledge and skills he/she acquired in providing specialized care to clients and their families. Stressed the provision of comprehensive competent and compassionate health care for the whole person, committing to exceed minimum standards and expectation.

**Community Health Nursing posting supervised fieldwork (0-0-0-2) 2 credits**

Students will apply the nursing process when caring for individuals, families and the communities who face multiple stressors. Practice takes place in the community. Clinical supervision of students in diverse clinical settings will take place. Clinical skills in direct nursing intervention and client education will be emphasized. Students should demonstrate good team spirit with other health providers.

**Mental Health Nursing posting supervised fieldwork (0-0-0-2) 2 credits**

Students will apply the nursing process when caring for individuals, families and the communities who face multiple stressors. The students will reflect the core values of the university during their clinical posting especially those of team spirit, servant leadership and accountability. Practice takes place in the mental health Institutions. Clinical supervision of students in diverse clinical settings will take place. Clinical skills in direct nursing intervention and client education will be emphasized.

**NRSG 427: ADULT HEALTH/MEDICAL-SURGICAL NURSING III (3-0-0-2) 5**

**Credits**

Introduction to special areas of nursing care involving neoplastic diseases, the eye, ortho-rhinolaryngological conditions and critical and intensive care nursing. Demonstration of adequate skills in the use of various equipment in patient/client care, evaluation of nursing care based on integrity and accountability. Exploring the role of faith and spiritual guidance in maintaining health and preventing illness. Focuses on integumentary system, male reproductive system, urinary system, immune system common conditions, their diagnoses and management, understanding the complexity of illness and see the mystery of a mighty God who only is the great healer. Students will utilize the nursing process in the general management and nursing care of patients experiencing acute and chronic illness.

**NRSG 428: ADULT HEALTH/MEDICAL-SURGICAL NURSING IV (3-0-0-2) 5**

**Credits**

Continued application of the nursing process in applying concepts and skills in planning and providing nursing care for individuals experiencing complex illnesses. Considers human responses to complex illnesses, designs and supports the creation of new approaches to nursing interventions to meet the demands of the elderly and others with multiple system failure. It lays emphasis on providing comprehensive competent and compassionate health care for the client in an autonomous manner. Appreciation of humans as being created wonderfully and fearfully by God in His own image. Exploring the role, ways and manner of Seventh - day Adventist faith and lifestyle can promote healing and prevent illness.

**NRSG 429: RESEARCH PROCESS IN NURSING (3-0-0-0) 3 Credits**

This course will explore the principles and concepts that underlie the research process as it is used in conducting empirical nursing research studies. There will be analysis and critique of extant nursing research, with an emphasis on evaluation of research for application in practice. Evidence based practice resulting from research studies will be part of the critical issues to be discussed during the course. Use and understanding of writing styles with emphasis on the American Psychological Association's format for the writing of term papers, theses and dissertations. The course will also emphasize excellence, integrity and responsibility which all researchers must exhibit are also part of the Babcock University core values.

**NRSG 430: RESEARCH SEMINAR (1-0-0-0) 1 Credit**

The course is designed to expose the student to oral presentation of issues that are directly or indirectly related to their research topic. It will also assist the student to develop competency in oral presentation of their research results.

**NRSG 446: PRINCIPLES OF TEACHING AND LEARNING WITH PRACTICUM IN NURSING (3 Credits)**

The course is designed to introduce the students to the principles of education and educational methodology. It stresses the role of the students as a teacher in health education. Principles of education, principles of teaching/learning philosophy and objectives of education in Nigeria. Relationship of the national policy and philosophy on education to the education of Nurses. Qualities of a teacher. Teacher/learner interaction. The learning environment, the learner, deductive and inductive reasoning. Concepts of motivation development of instructional objectives. Development of course content. Methods of evaluation. Traditional and modern/innovative teaching methods as they apply to health professional education. Educational communication media. Development and implementation of teaching plans in clinical settings.

**NRSG 470: SUPERVISED ADULT HEALTH/MEDICAL-SURGICAL NURSING CLINICALS (0-0-0-5) 5 Credits**

Students will utilize the nursing process in assessing and planning nursing care for individuals, families who face multiple stressors. Practice takes place in acute care settings. Clinical skills in nursing intervention and client education will be emphasized. Focus on providing quality nursing care to medical/surgical clients and their families with respect and dignity, sharing the love of God. This clinical will focus on meeting the needs of clients with various medical-surgical conditions. Students utilizing the nursing process would be able to care for patients /clients with different acute and chronic conditions. Emphasis on team spirit with other health care workers. The course will provide opportunities in problem solving, critical thinking, constructive communication as well as nursing role socialization.

**ECONS 407: HEALTH ECONOMICS 2 Credits**

The Course is designed to allow grasping of the concept of demography and social stratification as it influences access to nursing services. Introduction of notion of social welfare, problems of production, scarcity, choice and opportunity cost. The costing of health and nursing services, availability and distribution. Cost recovery of services. Roles of Nurses in the National Health Insurance Scheme.

**NRSG 590: RESEARCH PROJECT IN NURSING (0-0-6-0) 6 Credits**

Students will select a topic of interest in nursing during their fourth year in training and undertake an in-depth study under the guidance and supervision of a faculty member known as the research project. The first three chapters of the project will be submitted to the Babcock University Health Research Ethical Committee to be sure it meets ethical guidelines for human research. Students will defend the projects in front of an external assessor.

**NRSG 529: RADIOLOGY AND RADIOTHERAPY NURSING I (2-0-0-0) 2 Credits**

An in depth consideration of principles and practice of radiology and radiotherapy nursing will be presented. The course will also include radiotherapy techniques, interpretation of results, measures to protect clients, staff and others, special x-rays and treatment of radioactive waste.

**NRSG 530: RADIOLOGY AND RADIOTHERAPY NURSING II (2-0-0-0) 2 Credits**

Students will utilize the nursing process in the care of clients undergoing radiology and radiotherapy treatment. Experience will take place in an acute care setting. Students will be required to present a case study.

**NRSG 537: ORTHO-RHINO-LARYNGOLOGICAL NURSING I (2-0-0-0) 2 Credits**

Close association of ear, nose and throat as communicating parts of the upper respiratory tract will be discussed. Common disorders of the nose and sinuses, disorders of speech, auditory problems, disorders of the pharynx, the larynx including laryngeal obstruction will be examined.

**NRSG 538: ORTHO-RHINO-LARYNGOLOGICAL NURSING II (2-0-0-0) 2 Credits**

Students will utilize the nursing process in the care of clients with selected ortho-rhino-laryngological conditions in an acute care setting. Clinical experience would also include a case study and a presentation by the student.

**NRSG 541: OPERATING THEATRE NURSING I (2-0-0-0) 2 Credits**

The course will focus on principles and practice of peri-operative nursing. It will examine surgical team, instrumentation, operating room environment and aseptic technique in the operating room. Meeting the needs of clients at every stage of peri-operative nursing intervention, psycho-social care in the recovery room and ICU will be covered. Explore the role of spiritual care to patients and families during critical care

**NRSG 542: OPERATING THEATRE NURSING II (2-0-0-0) 2 Credits**

Students will utilize the nursing process in the general management and nursing care of peri-operative patients. The course will emphasize the assessment of functioning, adaptation, and recovery for patients during/after surgery, making informed and accountable choices in the nursing care. Focuses on nurturing the wounded to the great healer.

## DEPARTMENT OF COMMUNITY/PUBLIC HEALTH NURSING



*Janet Omolara KIO*  
*Head of Department*

### ACADEMIC STAFF

Ajao Ezekiel O.	RN, RPHN, Ph.D FWACN	Professor, Nursing/Public Health
Kio, Janet O.	RN, RM, RPHN, B.Sc., MPH, Ph.D	Associate Professor
Okafor N.A.	RN, RM, RPHN, MPH, Ph.D	Senior Lecturer
Solanke, A.A.	RN, RM, MSc	Lecturer I
Odewusi, T. A.**	RN, RM, RPHN MPH.	Lecturer II
Maitanmi, J. O.	RN, RM, RPHN, RPHNE, BNSc, MSc.	Lecturer II
Leslie, T. A.	RN, RM, RPHN, BNSc, MSc.	Lecturer II
Ogunbesan, J.O	RN, RM, RPHN, BNSc, MPH	Lecturer II

### ADJUNCT STAFF

Adesina-Adio, F.O.  
Ademuyiwa, I.Y.

RN, MSc  
RN, MSc, PhD

Lecturer II  
Lecturer II

**CLINICAL STAFF**

Adekoya, L.

RN, RM, M.Ed.

Principal  
Clinical Instructor

\*\*On study Leave

## **COURSE DESCRIPTIONS**

### **NRSG 222: PRINCIPLES AND PRACTICE OF COMMUNITY HEALTH NURSING I AND EPIDEMIOLOGY (2-0-0-1) 5 Credits**

This course will explore the nursing process to solving community health problems arising from diverse stressors. Introducing community health nursing, primary health care, concepts, components, principles and strategies of Primary health care. It will utilize primary health care strategies in diagnosing and solving individual, family and community health needs and issues, managing them in health and illness, by using the nursing process as the fundamental tool. Basic concept, principles and practice of epidemiological surveys in the prevention and control of communicable and non-communicable diseases; explain types of epidemiology survey, uses of, tools used, roles of Public Health Nurse in the prevention, control and treatment of communicable and non-communicable diseases. The students are to develop excellent skills that will show compassion to the clients. Through scripture, we can find God's guidance to good health, as it is rated of high importance.

### **NRSG 317: EMERGENCY AND DISASTER NURSING (3-0-0-1) 3 Credits**

This course is designed to give students the opportunity to gain in depth understanding of nature of emergency nursing and identify the role of nurses in meeting different needs of patients. It provides the students with integrity, knowledge and skills that will help them to provide efficient nursing care during emergency and disaster situations in hospital setting and also in disasters. This course will afford the student with knowledge, and aptitude in delivering basic to complex care to urgent, emergent, and critical patient population. Also, nursing care for specific medical emergencies is considered. The clinical part introduces care for emergency clients, provides opportunities to enhance critical thinking communication and systematic inquiry skills that are necessary to provide care to emergency clients and their families with respect and dignity, they should also learn how to share the love of God in the care they give to their clients.

### **NRSG 443: PRINCIPLES AND PRACTICE OF COMMUNITY HEALTH NURSING II, ENVIRONMENTAL HEALTH AND OCCUPATIONAL HEALTH (5-0-0-0) 5 Credits**

This course focuses on the developmental needs of the growing child and the nurses' role in meeting these needs. It highlights some diseases common to under-five school children and maintaining the health of the child throughout the stages of development up to adolescence. It further enables the nurse appraise the important role of the family in the development of the child into a useful citizen. The concepts and components of environmental health; pollution and waste management, environmental sanitation, water and water treatment, and food safety. Introduction to the concepts, components and principles of occupational health; hazards at work place, prevention of workplace and environment health hazards, ergonomics, labour laws, rules and regulations, Risk assessment and management at workplace promotion of workplace environment, health services to workers and workplace environment, which will help the students develop a sense of responsibility and care towards their clients and community and according to the scripture that God make the environment safe and habitable for mankind.

### **NRSG 500: CONTEMPORARY ISSUES IN NURSING PRACTICE (3-0-0-0) 2 Credits**

Current trends in nursing will be addressed. These will include ethical and legal issues and other contemporary professional issues in nursing education, service both locally and internationally.



Students will utilize the nursing process in assessing and planning care for clients during prenatal, intrapartal and postnatal periods. Clinical experience will take place in both acute and rural settings, the student will develop team spirit in working with the clients and other professionals in the community.

**NRSG 525: PRIMARY HEALTH CARE NURSING I (2-0-0-0) 2 Credits**

This course will focus on the evolution, organization and management of Primary Health Care locally and internationally. It will include advanced studies of diagnosis and treatment of common diseases as well as the application of principles and methods of health education. Community empowerment as a crucial enabling factor in Primary Health Care nursing would be discussed. Multi-sectoral collaboration and participation would be emphasized. The role of every tier of government, the individual, the family and the community will be examined. This will enable the student to develop team spirit in working with other health professionals in the community and also enable the students appreciate creation.

**NRSG 526: PRIMARY HEALTH CARE NURSING II (2-0-0-0) 2 Credits**

Students will utilize the nursing process in assessing and planning primary health care nursing that will meet the needs of individuals, families and the communities. Practice takes place in the primary and comprehensive health care centres including clinical supervision of students. Clinical skills in direct nursing intervention and client education will be emphasized for the students to be responsible and be leaders in their community.

**NRSG 527: PRINCIPLES AND PRACTICE OF COMMUNITY HEALTH NURSING III (3-0-0-2) 5 Credits**

This course will focus on the strategies and the principles of preventing and managing communicable and non-communicable diseases in the community, it will also focus on community organization and empowerment as a tool for promoting effective community health nursing services. Case studies will be developed and presented in order to achieve excellence in teaching, research program, service delivery and also imparting quality Christian education by instilling Christ-like character to the members of the community.

**NRSG 528: PRINCIPLES AND PRACTICE OF COMMUNITY HEALTH NURSING IV (3-0-0-2) 5 Credits**

This course will focus on the organization and management of primary health care services, training of primary health care personnel. It will also involve the application of nursing process in the community; and clinical practice will take place concurrently in primary health centres to develop excellent clinical experiences and dignity.

**NRSG 590: RESEARCH PROJECT IN NURSING (0-0-6-0) 6 Credits**

Students will select a topic of interest in nursing, and undertake in-depth study under the guidance and supervision of a faculty member. Students will defend the projects

## DEPARTMENT OF MATERNAL AND CHILD HEALTH CARE NURSING



**Christiana Olanrewaju Sowunmi**  
**Head of Department**

Sowunmi, C.O.	RN, RM, BSc. (Nursing), MEd., Ph.D Associate Professor
Owopetu, C. A.	RN, RM, BSc. (Nursing), MSc. Lecturer I
Agbonjimi, L. A	RN, RM, BNSc., MSc. Lecturer II
Aina, F.	RN, RM, BNSc., MSc. Lecturer II
Anokwuru, Rafiat A.**	RN, RM, BNSc., MSc. Assistant Lecturer
Okwuipo, M.	RN, RM, BNSc. MSc. Lecturer II

### ADJUNCT STAFF

Sotunsa, John, O.	MB, BS FWACS	Senior Lecturer/Obs &Gyn.
Folami, F.	RN, RM, Ph.D	Senior Lecturer
Aina, R.O.	RN, MSc	Lecturer II
Famutimi, E.O.	RN, MSc	Lecturer II
Ike, E.U.	RN, MSc	Lecturer II
Emikpe, O.A.	RN, MSc	Lecturer II

### CLINICAL STAFF

Okueso, G.**	RN, RM, BNSc., MSc.	Principal Clinical Instructor
Tayo, F.	RN, RM, M.Ed.	Assistant Chief Clinical Instructor
Ibitoye, F.	RN, RM, M.Ed.	Assistant Chief Clinical Instructor
Akinmolayan, M.M.I.	RN, RM, RMT	Principal Clinical Instructor

\*\* On study leave

## **COURSE DESCRIPTIONS**

### **NRSG 325: MATERNAL AND CHILD HEALTH CARE NURSING I (3-1-1-0) 5 Credits**

This course will cover the fundamentals of midwifery practice, normal midwifery (Maternal health in antepartal, intrapartal and post natal periods). It will also cover the midwifery practice in the community and the students would be passionate in accounting, and providing the necessary care during this period of maternal and child health.

### **NRSG 333: FAMILY AND REPRODUCTIVE HEALTH (2-0-1-3) 5 Credits**

This course will cover family/ reproductive health issues in general and introduce students to Anatomy and Physiology of the male and female reproductive systems, Reproductive rights, concept of quality care, Adolescent health, conception care including safe motherhood and life saving skills, gender issues and traditional harmful practices. It will also acquaint students with strategies put in place to increase awareness about maternal issues in the community. It lays emphasis on the improvement of women's health in general and specifically reducing maternal morbidity and mortality. The students should be aware of how humans are wonderfully and fearfully made by God in His own image and also be accountable in the care of their clients.

### **NRSG 436: MATERNAL AND CHILD HEALTH CARE NURSING II (4-1-0-0) 5 Credits**

This course emphasizes on the newborn baby such as the early care of the baby during delivery, intrauterine life, physiological changes and trauma during birth, congenital abnormalities. It also focuses on the developmental needs of the growing infants/ child feeding methods and practices, common childhood infections and management, with the health services available for maintaining the health of the child throughout all the stages of development. It is the responsibility of the nurse to show compassion/love in the care of the child and the family.

### **NRSG 447: MATERNAL AND CHILD HEALTH CARE NURSING III (3-0-0-2) 5 Credits**

This course is designed to prepare the students to recognize those conditions which suggest deviation from normal in pregnancy and labor. It highlights the roles and responsibilities of the midwife in early diagnosis, appropriate intervention and referral as necessary. It emphasizes the midwife's involvement in the management of obstetric emergencies.

### **NRSG 448: MATERNAL AND CHILD HEALTH CARE NURSING IV (3-0-0-2) 5 Credits**

This course is also designed to prepare the students to recognize those conditions which suggest deviation from normal in puerperium. It demonstrates the roles and responsibilities of the midwife in early diagnosis and appropriate intervention and referral as necessary. It shows the midwife's competency in the management of obstetric emergencies. The students will be accountable in recognizing conditions that suggest deviation from normal in neonates because they require love and care.

### **NRSG 452: MIDWIFERY CLINICAL PRACTICE I (0-0-0-3) 3 Credits**

This course is an introduction to the clinical skills and competencies necessary for the practice of normal midwifery care as preparation for the first midwifery clinical placement in the following

term. Students will be introduced to a variety of skills utilized in prenatal, intrapartum and postpartum care, including well woman and newborn physical assessment, monitoring fetal and maternal wellbeing in labor, conducting births, collection of laboratory specimens, and universal precautions. This will enable the students to be compassionate and develop excellent skills in the care of their clients. It is a prerequisite for NRS 554.

**NRS 554: MIDWIFERY CLINICAL PRACTICE II (0-0-0-2) 2 Credits**

This course provides an in-depth clinical skills and competencies necessary for the practice of normal and complicated midwifery. Students will be introduced to a variety of skills utilized in prenatal, intrapartum and postpartum care, including well woman and newborn physical assessment, monitoring fetal and maternal wellbeing in labor, conducting births, prevention of obstetric complications, managing complicated delivery, management of obstetric complications, maternal and newborn resuscitation, collection of laboratory specimens, and universal precautions. This will enable the students to be compassionate and develop excellent skills and positive attitude in the care of their clients.

**NRS 457: INFANT AND CHILD HEALTH CARE I (2-0-0-0) 2 Credits**

The course will focus on meeting the health needs of children with emphasis on primary-secondary social cultural and religious influence on child health, family influences and hereditary influences on health promotion of the child. Emphasis is on the concept of growth and development, the total health needs of children including prevention and treatment of illness occurring during the period. The students will have autonomy and also develop a sense of responsibility in the nurture of the child, family and community.

**NRS 458: INFANT AND CHILD HEALTH CARE II (2-0-0-0) 2 Credits**

The focus of this course will be on the care of children who need highly specialized nursing care in tertiary and home setting. It will include nursing care of children with selected multiple organ failure. The student requires compassion and commitment in the care of the child. In the act of commitment and care, the student should do them to the glory of God.

**GDS 430: CHARACTER FORMATION AND SPIRITUAL GROWTH 3 Credits**

The course focuses on developing Christ-like character as the basis for providing wholistic nursing care to the sick and well. The course will enable the students to understand how God uses circumstances to develop character and demonstrate in their roles as nurses the significant effect a genuine faith can have in changing character. The course deals with encouraging spiritual disciplines such as prayer, scripture reading, and reflection on the word of God, service and sharing of faith.

The course will focus on the application of biblical principles and precepts into clinical nursing at all levels of care and at various settings. It will enable the students to demonstrate the unique contributions of Seventh-day Adventist ethos and values toward positive client-professional interaction as well as helping to crystallize the ideal image of a professional Christian nurse. Biblical character traits such as respect for self and others, integrity/honesty, self-control, compassion/kindness, responsive to authority and contentment will be emphasized. The course equally deals with the ministry of healing of Christ committed to the Christian nurse which is to unite with Christ in relieving both the physical and spiritual needs of his fellow men. It emphasizes the role of Christian nurse to pointing the sin-sick men and women to the Man of Calvary.

## DEPARTMENT OF MENTAL HEALTH AND PSYCHIATRY



**Joseph O. AINA**  
*Associate Dean/Head of Department*

### ACADEMIC STAFF

Aina Joseph O.	RN, Ph.D., FWACN	Professor, Nursing/Mental Health
Anyasor Chiamaka	RN, RM, BNSc, MSc	Lecturer II
Ojo, E.	RN, RM, BNSc, MSc	Lecturer II

### ADJUNCT STAFF

Osayuwa, O.W.	RN, MSc	Lecturer I/Mental Health
Olorunda, M.O.	RN, MSc	Lecturer I/Mental Health
Makinde, A.	RN, MSc	Lecturer II/ Mental Health

## **COURSE DESCRIPTIONS**

### **NRSG 318: PSYCHIATRIC/MENTAL HEALTH NURSING I (3-0-0-0) 3 Credits**

This course will cover introduction to psychiatric-mental health nursing with basic understanding of mental health, mental illness, mental health laws/acts and the role of the nurse in mental health care. The course will explore the psycho-social development of mankind from childhood to adulthood using various psychological theories to understand human behavior in health and illness. It will also explore the pragmatics and dynamics of human behaviors in interpersonal relationships and communication. Core values of Babcock University such as integrity and excellence will be emphasized.

### **NRSG 435: PSYCHIATRIC/MENTAL HEALTH NURSING II (3-0-0-0) 3 Credits**

This course builds on NRSG 318 so student will continue in the world of psychiatric and mental health nursing employing the nursing process in the development of nursing care for clients dealing with major psychiatric-mental health issues. There will exposition on specific mental illness/disorders. A more in-depth analysis of psycho-social developmental issues of childhood, adolescence, and adulthood will be examined. Also to be examined will be an understanding of human behavior in health and illness, relating to specific psychiatric-mental health disorders across the life span, including the pragmatics and dynamics of human behavior in the application of therapeutic interpersonal interventions, with the application of systems framework in planning nursing care. Babcock University core values of integrity, accountability will be emphasized.

### **NRSG 440: PRINCIPLES OF MANAGEMENT IN NURSING (3-0-0-0) 3 Credits**

This course will deal with management principles with special emphasis on health systems. Extant theories relevant to management will be explored focusing specifically on contemporary issues in the administration and management of nursing services. Principles of autonomy and responsibility which are part of Babcock University core values will be part of what this course will entail. Specific topics in health administration such as revolving fund concept, principle and practice of entrepreneurship in nursing will also be examined.

**SCHOOL OF PUBLIC AND ALLIED HEALTH**



***Prof. Dora O. AKINBOYE***  
***Dean***



***Justina Abolanle NDIEN***  
***School Officer***

## **INRODUCTION**

The School of Public and Allied Health in Babcock University was established on the 1<sup>st</sup> of July, 2011, specifically to meet the health needs of Nigeria, and the world, in general.

The School is made up of:

- i. Department of Public Health, awarding BSc Honours degree in Public Health.
- ii. Department of Medical Laboratory Sciences, awarding BMLS Honours degree in Medical Laboratory Sciences.

Admission requirements are stated under the write up of the various Departments and programs.

## **MISSION**

The Mission Statement of the School of Public and Allied Health, Babcock University, is to promote and improve medical care and health of all individuals, while preventing, diagnosing and controlling diseases, through Christian Education and Medical sciences.

## **VISION**

Globally promoting and enhancing quality diagnostic and healthcare delivery education.

## **GOALS AND OBJECTIVES**

The goals and objectives of the School are to:

1. Promote Christian Education and Medical Sciences, through our undergraduate and graduate programs.
2. Produce professionals who will be leaders in all areas of their operations.
3. Impact health through skills acquired in all core areas of Public health and Medical Laboratory Sciences.
4. Promote and enhance good health through our undergraduates and graduate programs.
5. Develop research and leadership skills through our Undergraduate, Masters and PhD programs.
6. Expand the scope of health delivery system through Medical Laboratory advancement.
7. Provide community-based training programs and develop partnership with health agencies in order to promote good health in all areas of operation.
8. Provide support for all arms concerned with health delivery activities enhance restoration of health to all.
9. Combat and reduce to the minimum, emerging Public health and Medical problems.

Promote the biblical injunction of health practices of the Seventh-day Adventist.



## DEPARTMENT OF MEDICAL LABORATORY SCIENCE



**Prof. John Cletus Ihongbe**

Head of Department

### ACADEMIC STAFF

IHONGBE, John Cletus.	Ph.D., FIBMS (Lond), FMLSCN FWAPC MLS	Professor
OCHEI, John O.	Ph. D., FMLSCN	Senior Lecturer
ADEJUMO, Esther N.	Ph. D., FMLSCN	Senior Lecturer
ADESINA, Opeyemi O.	Ph. D., FMLSCN	Lecturer I
ENITAN, Seyi. S	M.Sc., BMLS, AMLSCN	Lecturer I
OKOYE, Jude. O	M.Sc., BMLS, AMLSCN	Lecturer I
ADELAKUN, Ayodele A	M.Sc., BMLS, AMLSCN	Lecturer II
ILEOMA, Emmanuel	M.Sc., FMLSCN	Lecturer II
ADEDIJI, Isaac. O	M.Sc., BMLS, AMLSCN	Lecturer II
ADEPOJU, Paul. O	M.Sc., BMLS, AMLSCN	Lecturer II
OLUREMI Adeolu S.	M.Sc., BMLS, AMLSCN	Lecturer II
USIOBEIGE, Stanley O.	M.Sc., AMLSCN	Lecturer II
OFEM, Oluchi. G	M.Sc, FMLSCN	Lecturer II

### ADJUNCT STAFF

AKINBOYE, Dora D.O.	Ph.D., FMLSCN	Professor
AKINLOYE, Oluyemi	Ph.D., FMLSCN	Professor
AVWIORO, Godwin O.	Ph. D., FMLSCN	Professor
AJAYI, Olutayo. I	Ph. D., FMLSCN	Professor
ALLI, Oyebode. A	Ph.D., FMLSCN	Professor
ONYEGBULA, Kenneth C.	M.Sc., AMLSCN	Lecturer II

**TECHNICAL STAFF**

OLASEBIKAN, Adewumi S.	BMLS, AMLSCN	Senior Medical Lab Scientist
FALOYE, Taiwo G.	AMLSCN	Senior Medical Lab Scientist
OKORO, Chigozie V.	BMLS, AMLSCN	Medical Laboratory Scientist
ADENUGA, Ile-Ola B	MLT, WASCCE	Medical Laboratory Technician
MICHEAL, Blessing N.	MLT, WASCCE	Medical Laboratory Technician
CHIMA, Esther K.	MLT, WASCCE	Medical Laboratory Technician

**ADMINISTRATIVE STAFF**

ADENIJI, Gbeminiyi. S.	B.Sc. (Hons)	Confidential Secretary I
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**FACULTY AND STAFF IN SERVICE DEPARTMENTS****MICROBIOLOGY DEPARTMENT**

S/N	NAME	RANK	QUALIFICATION
1.	AINA, Daniel. A.	Associate Prof.	Ph.D., M.Sc., B.Sc.
2.	EZEKIEL, C.	Associate Prof.	Ph.D., M.Sc., B.Sc.
3.	FAPOUNDA, Stephen	Professor	Ph.D., M.Sc., B.Sc.
4.	JONATHAN, Segun G.	Professor	Ph.D., M.Sc., B.Sc.
5.	OLAJUYIGBE, Olufunmiso O.	Lecturer I	Ph.D., M.Sc., B.Sc.
6.	EZEAMAGU, C.O	Lecturer I	Ph.D., M.Sc., B.Sc.
7.	SALAWU, O.D.	Lecturer I	Ph.D., M.Sc., B.Sc.
8.	OSOPALE, B	Lecturer II	Ph.D., M.Sc., B.Sc.
9.	ADEOYE-ISIJOLA, M.O.	Lecturer II	M.Sc., AMLSCN
10.	MENSAH-AGYEI, Grace O.	Lecturer II	M.Sc., B.Sc.
11.	OYEDELE Oluwapelumi.O.	Assistant Lecturer	M.Sc., B.Sc.
12.	AYENI K.I	Assistant Lecturer	M.Sc., B.Sc.
13.	ONUMAEGBU, Chinwenzu	Assistant Lecturer	M.Sc., B.Sc.

**TECHNICAL STAFF**

AKEREDOLU, Abosede A.	Assistant Chief (Microbiology)
OYEWOLE, Temitope E.	Laboratory Technologist I (Microbiology)
ADETILORO, E.O	Laboratory Technologist I (Microbiology)
BALOGUN, Esther O.	Laboratory Assistant
AWOYINKA Racheal I.	Principal administrative

**PHARMACOLOGY**

S/N	NAME	RANK	QUALIFICATION
1.	WALKER, Oladapo	Professor	Ph.D., FMCP, FWACP, M.B.B.S
2.	FAGBEMI, Shamus O	Professor	Ph.D., FRSM, B.Sc
3.	AKINYEDE, Akinwumi A.	Senior Lecturer	Ph.D., M.Sc., MB. ChB
4.	AWODELE, Olufunsho	Senior Lecturer	Ph.D., FPC Pharm, MPH, M.Sc., B.Pharm.
5.	NWAIWU, Obiyo	Senior Lecturer	
6.	KALE, Oluwafemi	Lecturer II	M.Sc., B.Sc.
7.	UYAIABASI, Gabriel	Asst Lecturer	M.Sc., B.Sc.

**TECHNICAL STAFF**

- |                          |                |             |
|--------------------------|----------------|-------------|
| 1. OBIANUO, Chineta      | Technologist I | PGD,HND,OND |
| 2. OGUNDARE, Temitope F. | Technologist I |             |

**ADMINISTRATIVE STAFF**

- |                          |                          |
|--------------------------|--------------------------|
| 3. AJAEGBU, Victoria U.. | Administrative Assistant |
|--------------------------|--------------------------|

**BIOCHEMISTRY**

S/N	NAME	RANK	QUALIFICATION
1.	ADEBAWO, O.O.	Professor	Ph.D., M.Sc, B.Sc
2.	ONAJOBI, F.D.	Professor	Ph.D., M.Sc, B.Sc
3.	OSILESI, Odutola	Professor	Ph.D, B.Sc.
4.	ANYASOR, G.N	Associate Prof.	Ph.D, M.Sc, B.Sc
5.	OMENKA, R.O	Lecturer I	M.Sc., B.Sc
6.	ESIABA, Ijeoma	Lecturer I	Ph.D., M.Sc, B.Sc
7.	SHOKUNBI, Olutayo S.	Senior Lecturer	M.Sc, B.Sc
8.	ADEYEMI, O.T.	Lecturer II	Ph.D, M.Sc, B.Sc
9.	AMAH, G.H	Ass. Lecturer	M.Sc, B.Sc, PGDE
10.	ADESEGUN, O	Ass. Lecturer	M.Sc, B.Sc
11.	ADETAYO, Modupe	Ass. Lecturer	M.Sc, B.Sc
12.	ADETUNJI, Oluseyi	Ass. Lecturer	M.Sc, B.Sc
13.	AKANDE, Idowu S.	Senior Lecturer	Ph.D, M.Sc, B.Sc (Adjunct)
14.	KASUMU, F.	Ass. Lecturer	M.Sc, B.Sc
15.	OGUNBIYI, Babafemi	Ass. Lecturer	M.Sc, B.Sc
16.	OSONIYI, Omolaja	Senior Lecturer	Ph.D, M.Sc, B.Sc (Adjunct)
17.	TALABI, Olaoluwa T.	Lecturer I	M.Sc, B.Sc

**TECHNICAL STAFF**

- |                   |                          |            |
|-------------------|--------------------------|------------|
| 1. AYINDE, A. J.  | Senior Lab. Technologist | B.Sc.      |
| 2. GISANRIN, O.O. | Lab. Technologist        | HND, ANIST |
| 3. ORODELE, K.A   | Lab. Technologist        | HND        |
| 4. ABRAHAM, Queen | Lab Attendant            | SSCE       |

**ADMINISTRATIVE STAFF**

- |                             |
|-----------------------------|
| 1. Ogonsanwo, oluwatosin A. |
|-----------------------------|

**PHYSIOLOGY**

S/N	NAME	RANK	QUALIFICATION
1.	OLWOOKORUN, M.O.	Professor	Ph.D., FCVSN, FPSN, DVM
2.	AJIBOYE, K.I.	Senior Lecturer	Ph.D., MPhil., M.Sc, B.Sc
3.	AKINDELE, R.A.	Senior Lecturer	M.Sc.,FWACS,MBBS
4.	AWOBAJO, F.O.	Senior Lecturer	Ph.D., M.Sc, B.Sc
5.	MORAKINYO, A.O.	Senior Lecturer	Ph.D., M.Sc, B.Sc
6.	ADEKUNBI, Daniel	Asst Lecturer	Ph.D., M.Sc, B.Sc
7.	EHICHIOYA, David	Lecturer II	M.Sc, B.Sc.
8.	OGUNSOLA, Abimbola	Lecturer I	M.Sc, B.Sc, FMLSCN,

9. NABOFA, Williams	Lecturer II	Ph.D., M.Sc, B.Sc
10. OYEWUNMI, Samson	Animal House Supervisor	B.Sc.
11. ADEOYE Ayodeji	Assistant Lecturer	M.Sc.
12. ALABI Grace M.	Assistant Lecturer	M.Sc.

#### **TECHNICAL STAFF**

1. ADEOTI, I.A.	Asst Chief Technologist	AIST, ANIST.
2. OKORO, Chinwendu L.	Technologist I	HND, PGD, NISLT
3. NDUBUISI, Nonso	Technologist I	HND, PGD, AIST

#### **ADMINISTRATIVE STAFF**

1. SHITTU, Titilayo	Administrative Assistant
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#### **BASIC AND APPLIED SCIENCE**

S/N	NAME	RANK	QUALIFICATION
1.	ODUTAYO, Foluke O.I	Assistant Professor	Ph.D., M.Sc., B.Sc.
2.	ADELODUN, Joseph F.	Professor	Ph.D., M.Sc., B.Sc., N.C.E.
3.	ONIGBINDE, Adebayo	Professor	Ph.D., M.Sc., B.Sc.,
4.	ADEBAYO, Onigbinde	Professor	Ph.D., M.Sc., B.Sc.,
5.	OGUNWEMIMO, Olusola K.	Professor	Ph.D. M.Sc., B.Sc.
6.	OYEWOLE, I.O.	Professor	Ph.D., M.Sc., B.Sc.
7.	ADIO, Adesina K.	Assistant Professor	Ph.D., M.Sc., B.Sc.
8.	AYINDE, Semiu, A.	Lecturer I	M.Sc, B.Sc
9.	KANU, Richmond, U.	Senior Lecturer	Ph.D., M.Sc., B.Sc.
10.	KEHINDE Daniel.O	Lecturer I	M.Sc., B.Sc.
11.	AMISILE Olabode.O.	Lecturer II	M.Sc., B.Sc.
12.	ADEWUMI, Aderiike	Lecturer II	M.Sc., B.Sc.
13.	ALESHINLOYE, Abimbola O.	Lecturer I	Ph.D., M.Sc., B.Sc.
14.	JEGEDE, David O.	Lecturer II	M.Sc., B.Sc.
15.	AGBO Kelvin	Assistant Lecturer	B.Sc., M.Sc.
16.	SHOKUNBI Oluwatosin S.	Assistent Lecturer	B.Sc., M.Sc.
17.	IDIKA Digbo I.	Lecturer I	B.Sc., M.Sc., Ph.D.
18.	AKANBI Babatunde I.	Assistant Lecturer	B.Sc., M.Sc.
19.	OMOLE Faith	Assistant Lecturer	B.Sc., M.Sc.
20.	AWE Olufisayo	Assistant Lecturer	B.Sc., M.Sc.

#### **TECHNICAL STAFF**

1. ADARAMOLA Banji F.	Principal Lab. Technologist	B. Tech. Industrial Chemistry
2. ADEKOLA Leah B.	Laboratory Technician	ND Sc. Lab. Technology
3. NWADIKE, Faith U.	Senior Lab. Technologist	
4. ABIOYE, Oyeleye O.	Senior Lab. Technologist	

#### **ADMINISTRATIVE STAFF**

1. SHITTU, Titilayo	Administrative Assistant
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## **ANATOMY**

<b>S/N</b>	<b>NAME</b>	<b>RANK</b>	<b>QUALIFICATION</b>
1.	DESALU A.B.O.	Professor	MBChB, PhD
2.	OGUNNAIKE P.	Asso. Professor	B.Sc., M.Phil, PhD, FBACA
3.	SHALLIE, P.D.	Lecturer I	B.Sc., MSc., PhD
4.	OWOLABI J.O.	Senior Lecturer	B.Sc., MSc., PhD
5.	AYANNUGA O.	Lecturer I	MBChB, M.Sc.
6.	IMOSEMI Innocent	Lecturer I	B.Sc, M.Sc, PhD
7.	OLANREWAJU, JOHN	Asst. Lecturer	B.Sc., MSc.
8.	OLATUNJI, Sunday	Lecturer II	B.Sc., MSc.
9.	OLUWATOSIN Adesina	Lecturer I	B.Sc., MSc.

## **TECHNICAL STAFF**

1.	ONAFOWORA, G. B.	Chief Technologist	City & Guilds, London, AIST
2.	FABIYI S. O.	Laboratory Technologist	B.Sc
3.	ISICHEI S. O.	Principal Lab Technologist	HND
4.	ROGERS, M. A.	Asst. Lab Technologist	Diploma in Mortuary Science
5.	ALALADE, Fikayo	Lab Attendant	O'level
6.	TORR Henry	Lab Attendant	O'level
7.	KOLAWOLE Olanrewaju	Lab Attendant	O'level

## **ADMINISTRATIVE STAFF**

1.	Bankole, Abiola	Administrative Assistant
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## **INTRODUCTION**

Medical Laboratory Science programme offers the Bachelor of Medical Laboratory Science Degree (BMLS), which is currently run as a Department and will later metamorphose into a School setting (Faculty). Each specialty shall be Medical Microbiology, Medical Parasitology, Medical virology, Mycology, Clinical Chemistry, Immunology, Haematology and Blood Transfusion Science, Histopathology, Cytopathology, and Histochemistry. This Department currently situates in the School of Public and Allied Health in the College of Health and Medical sciences.

## **MISSION STATEMENT**

The mission of the Medical Laboratory Science programme is to team up with other Medical Professionals to continue the healing and teaching ministry of Jesus Christ "To make man whole" Luke 9:6

## **VISION STATEMENT:**

To be the leading Department of Medical Laboratory Science in Nigerian Universities, producing graduates of Medical Laboratory Science who can provide quality service in Medical Laboratories.

## **PHILOSOPHY OF MEDICAL LABORATORY SCIENCE PROGRAMME**

Medical Laboratory Science entails the study of human and animal tissues, body fluid, excretions and the production of biological for the purposes of diagnosis, treatment and research to the extent that they relate to the state of well-being of the person(s) or animals(s) whose tissues or excretions are involved.

1. The broad philosophy of Medical education in Nigeria as it affects Medical Laboratory Science should be.
  - a. To provide an in-depth scientific and professional background for the production of Medical Laboratory Scientists who would be capable of working anywhere in Nigeria including primary Health Care.
  - b. To produce Medical Laboratory Scientists with sufficient management ability to play a leadership role in training and the practice of Medical Laboratory Science.
2. Medical Laboratory Science is a very dynamic profession with continuous emergence of new procedures and instruments which justify adequate orientation for operational research by Practitioners. The graduates are therefore expected to keep pace with changing trends. Our philosophy is anchored on the harmonious development of the intellectual, physical, social and spiritual potentials of students; and inculcating in men and women a nobility of character.

### **RATIONALE FOR THE PROGRAMME**

- i. To provide the need for evidence based medical services to the Country.
- ii. To make accurate diagnosis in medical services based on laboratory investigations.
- iii. To provide evangelistic tools in ensuring total medical care.
- iv. To ensure availability of Christian medical laboratory scientists who are deeply rooted in the health principles of the church and can assist in carrying out her medical mission.

### **AIMS AND OBJECTIVES**

The main aims of the Bachelor programme in Medical Laboratory Science will be:

- i. To instill in students a sense of enthusiasm for the profession; an appreciation of its application in different contexts (in areas such as general medicine, food and beverages, pharmaceutical industries, utility department e.g. water corporations; research institutions, etc).
- ii. To involve the students in an intellectually stimulating and satisfying experience of learning, studying and research.
- iii. To provide students with a broad and balanced foundation of medical laboratory knowledge and practice skills; performing effectively in clinical diagnostic services, academics and quality assurance: and function independently or in collaboration with other members of the health team in the care of individuals and groups at all levels of health care.
- iv. To develop in students, the ability to apply their medical laboratory knowledge and skills to the solution of theoretical and practical problems in laboratory medicine.
- v. To develop students through an education in medical laboratory science, a range of transferable skills of value in medical and non-medical employment.
- vi. To provide students with a knowledge and skills base from which they can proceed to further studies in specialized areas involving medical sciences.
- vii. To generate in students, an appreciation of the importance of medical laboratory science in an industrial, economic, environmental, health and social context.
- viii. To produce students with the ability to generate biological and diagnostic reagents as well as to fabricate and maintain laboratory equipment.

- ix. To also empower graduates of Medical Laboratory Science with skills that will enable them engage in income yielding ventures i.e. a re-orientation from the ‘take-a-job’ mentality to the ‘make-a-job’ mentality.

## **BASIC ADMISSION REQUIREMENTS**

Candidates seeking enrolment into the BMLS programme should possess the following minimum entry qualification:

1. Senior secondary school certificate or its equivalent at credit levels in Physics, Chemistry, Biology, English Language and Mathematics at not more than two sittings, together with satisfying minimum requirements for admission to the degree programme which includes an acceptable pass of the University’s screening test.

2. **(a) Direct Entry**

Candidates with pass in the General Certificate of Education (GCE) at advanced level in Physics, Chemistry and Biology (Zoology) and also with a minimum of 5 credits in the following subjects – Physics, Chemistry, Biology, English Language and Mathematics at ‘O’ level: in addition to satisfying the minimum entry requirement of the University or graduates with at least a second class honors degree (2:2) in related disciplines, but must also have a minimum of 5 credits in the subjects stipulated at ‘O’ level. Medical laboratory Technician Certificate with a minimum of 5 credits in the subjects stipulated at ‘O’ level.

## **DURATION OF COURSE**

The BMLS degree programme shall run for 5 years for joint Matriculation entry candidates and 4 years for direct entry candidates.

The BMLS programme will be handled by the professional medical laboratory scientists in the cadres of professor to lecturer II cadre. The first two years of the programme will be jointly handled by the Departments in the School of basic and Medical Sciences.

## **GRADUATION REQUIREMENTS**

Instructions by structured course system and clinical practice both within and outside the department shall be provided. During the course of training, at the end of each semester, student are expected to write and pass series of comprehensive examinations constituting pre-requisite to the professional examinations.

- A total of 232 semester credits for Histopathology option.
- A total of 232 semester credits for Haematology/Blood Group Science option.
- A total of 234 semester credits for Chemical Pathology option.
- A total of 233 semester credits for Medical Microbiology& Parasitology option
- All 300 and 400 level core courses are required for 1<sup>st</sup> professional examination
- All 100 – 500 level core courses are required for final professional examination.
- Failure in first professional examination will prevent the student from taking the Laboratory posting course of 500 level as well as undertaking final year project (see policy statements on professional examination).
- To be awarded the degree of BMLS of Babcock University, a student must pass all courses offered by the University in addition with all the professional examinations conducted in collaboration with the Medical Laboratory Science Council of Nigeria (MLSCN)
- The class of degree awarded will be in line with the University grading policy. All results are subjected to the University’s Senate approval.

Candidates are required to be presented at the Medical Laboratory Science Council of Nigeria (MLSCN) professional registration examination and successful candidates would be registered and licensed to practice as professionals.

A total of **232** semester credits for Histopathology major, 234 semester credits for Chemical Pathology major and **232** semester credits each for Haematology/Blood Group Science and **233** Medical Microbiology/Parasitology major and general education courses are needed for graduation. The distributions of the number of semester credits that are considered as prerequisite for graduation are shown below:

#### CREDIT REQUIREMENTS FROM 100 – 400 LEVELS

LEVEL	DEPARTMENTAL COURSES	GEDS COURSES	NON-DEPARTMENTAL COURSES	TOTAL
100	0	19	24	43
200	03	11	36	50
300	39	09	0	48
400	38	09	0	47
SUB-TOTAL	80	48	60	188

#### CREDIT REQUIREMENTS FOR GRADUATION

500 LEVEL: DISCIPLINES	DEPARTMENTAL COURSES	GEDS COURSES	NON-DEPARTMENTAL COURSES	TOTAL FOR 500 LEVEL	TOTAL FROM 100-400 LEVELS	OVERALL TOTAL
MED. MICRO	42	03	00	45	188	233
HISTO PATH	41	03	00	44	188	232
HAEM/BGS	41	03	00	44	188	232
CHEM PATH	43	03	00	46	188	234

#### OVERALL COURSE EXPECTATION FOR ALL BMLS STUDENTS

- i. Basic sciences: Biology, Physics, Chemistry, Mathematics, Genetics and Molecular Biology, Biostatistics, Computer programming up to advanced levels.
- ii. General courses: Use of English language, Social Sciences and Humanities.
- iii. Pre-clinical courses: Gross Anatomy, Physiology, Biochemistry and Pharmacology.
- iv. Core subjects of Medical Laboratory Sciences: Clinical chemistry; Medical Microbiology (Virology, Bacteriology, Parasitology, Mycology), Hematology and Blood group Science, Histopathology, Immunology etc.



- v. Laboratory postings: Conducted at specified and regular intervals in all core Medical laboratory science courses. Students are posted to specific hospital based laboratories for professional experience under the supervision of senior Medical Laboratory Scientists/lecturers as part of the students' clinical experience.
- vi. Field trips are conducted and students are taken for further professional experience/exposure in utility departments (e.g. water treatment plants); industries (e.g. Breweries, food and beverage especially for quality assurance and control); community health centers for epidemiological studies; special clinics and bays e.g. leprosaria, tuberculosis/HIV units; sickle cell anemia clinics, renal units, etc. for further experience/ factories to acquire some entrepreneur skills.  
***Scored log books are kept and signed for day-to-day laboratory/ posting for each student.***  
By the final year, students are expected to specialize in any of the four areas of specialization.
- vii. Upon successful completion of the requirements for the award of a BMLS degree, graduates are expected to do a one-year internship in an accredited Hospital/Research/Health Centre.

### **ATTAINMENT LEVELS**

It is essential that the procedure used for students' assessment should correspond to the knowledge, abilities and skills which are to be developed through their degree programme.

These should be based on:

- Formal examination
- Laboratory report/records
- Problem-solving exercises
- Oral presentation
- Planning, conduct and reporting of project work and researches.

The unit course system should be used but pre-requisite courses should be carried over.

### **Additional assessments may include:**

- a. Essay assignments
- b. Literature surveys and evaluations – presented as class seminars/displays.
- c. Project work
- d. Preparation and illustration on project work report/displays.
- e. Reports on external/field trips/laboratory postings.

Generally, students who are awarded a Bachelor's degree in Medical Laboratory Science [BMLS] honors, are expected to demonstrate knowledge, abilities and skills corresponding to at least attainment level (d) above, with a pass mark of 50% in courses done

**BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)  
100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian Peoples in a Global Culture	-	2
	<b>CORE COURSES</b>		
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

*Note: Students will be indexed with the Medical Laboratory Science Council of Nigeria in the 200 level of study.*

**BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)  
200 LEVEL COURSES**

**BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)**

<b>COURSE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
<b>COURSE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
<b>CODE</b>	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 000, 002	Citizenship Relationship Management	0 -	02
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
MLSC 214	Introduction to Biomedical Laboratory Science	-	3
BCHM 201,202	Foundations of Biochemistry I, II	3	3
ANAT 221, 224	Gross Anatomy I, II	3	3
ANAT 209	General Embryology	3	-
PHGY 217	Introductory Physiology and Autonomic Nervous System	3	-
PHGY 208	Cardiovascular Physiology	-	3
PHGY 213	Blood and Body Fluid Physiology	3	-
PHGY 212	Respiratory Physiology	-	3
ANAT 216	Histology and Body System	-	3
CHEM 213, 214	Organic Chemistry I, II	3	3
	<b>TOTAL (50 Credits)</b>	<b>25</b>	<b>25</b>

**300 LEVEL COURSES**

GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
MLSC 310	Basic Haematology	3	-
MLSC 319	Immunology and Immunochemistry I	2	-
MLSC 325, 326	Clinical Laboratory Postings I, II	3	3
MLSC 328	Introductory Medical Microbiology	-	3
MLSC 331	Medical Laboratory Instrumentation and Techniques	3	-
MLSC 333	Basic Pharmacology and Toxicology I	3	-
MLSC 334	Basic Pharmacology and Toxicology II	-	3
MLSC 335	Nucleic Acid Biochemistry and Basic Concepts of Molecular Biology	2	-
MLSC 336	Basic Blood Group Serology	-	3
MLSC 337	Basic Clinical Chemistry	3	-
MLSC 338	Basic Biomedical Engineering	-	3
MLSC 341	Practical in Pharmacology and Toxicology	2	-
MLSC 344	Basic Histopathology	-	3
	<b>TOTAL ( 48 Credits)</b>	<b>24</b>	<b>24</b>

**BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	-	2
GEDS 440	E-Project Management and Simulation	2	-

GEDS 430	Character Formation and Spiritual Growth	3	-
GEDS 280	Leadership Skills	-	2
	<b>CORE COURSES</b>		
MLSC 405	Professional Ethics in Medical Laboratory Science	2	-
MLSC 410	Introduction to Cytology	-	2
MLSC 412	Medical Entomology and Parasitology	-	2
MLSC 414	Immunology and Immunochemistry II	-	3
MLSC 416	Histopathology	-	3
MLSC 417	Medical Bacteriology/ Mycology	3	-
MLSC 420	Haematology	3	-
MLSC 428	Blood Group Serology	-	3
MLSC 435	Medical Counseling Skills	2	-
MLSC 437	Chemical Pathology	3	-
MLSC 443, *444	Clinical Laboratory Postings III, IV	3	3
MLSC 445	Introductory Medical Virology	3	-
PHSC 202	Biostatistics	-	3
	<b>STOTAL (47 Credits)</b>	<b>24</b>	<b>23</b>

**\*Note: First Professional Examination to be moderated by Medical Laboratory Science Council of Nigeria.**

## **BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)**

### **500 LEVEL COURSES**

#### **MEDICAL MICROBIOLOGY AND PARASITOLOGY- *OPTION***

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>

GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
MLSC 503	Genetics and Molecular Biology	2	-
MLSC 507, *508	Clinical Laboratory Postings V, VI	3	3
MLSC 513	Research Methodology	3	-
MLSC 515	Seminar	2	-
MLSC 517	Supply Chain and Laboratory Management	2	-
MLSC 590	Research Project	-	6
MLSM 503	Medical Microbiology	3	-
MLSM 504	Pharmaceutical Microbiology and Microbial Genetics	-	3
MLSM 506	Medical Virology	-	3
MLSM 507	Medical Mycology	3	-
MLSM 508	Laboratory Techniques in Microbiology	-	3
MLSM 509	Medical Parasitology and Epidemiology	3	-
MLSM 512	Public Health Microbiology and Epidemiology	-	3
	<b>TOTAL (45 Credits)</b>	<b>21</b>	<b>24</b>

*\*Note: Students are expected to write their Final Professional Examinations to include Theory, Practical and Oral, to be moderated by Medical Laboratory Science Council of Nigeria.*

**BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)  
500 LEVEL COURSES  
HISTOPATHOLOGY- OPTION**

COURSE CODE	COURSE TITLE	SEMESTER	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0

GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
MLSC 503	Genetics and Molecular Biology	2	-
MLSC 504	Cytogenetics	-	3
MLSC 507, *508	Clinical Laboratory Postings V, VI	3	3
MLSC 513	Research Methodology	3	-
MLSC 515	Seminar	2	-
MLSC 517	Supply Chain and Laboratory Management	2	-
MLSC 590	Research Project	-	6
MLSH 504	Histopathology Techniques and Embalment	-	3
MLSH 506	Museum Techniques	-	3
MLSH 508	Introductory Concepts in Oncology	-	2
MLSH 509	Exfoliative Cytology	3	-
MLSH 515	Histopathology I	3	-
MLSH 517	Histopathology II	3	-
	<b>TOTAL (44 Credits)</b>	<b>21</b>	<b>23</b>

*\*Note: Students are expected to write their Final Professional Examinations to include Theory, Practical and Oral, to be moderated by Medical Laboratory Science Council of Nigeria.*

**BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)**  
**500 LEVEL COURSES**  
**HAEMATOLOGY AND BLOOD GROUP SCIENCE- *OPTION***

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life		3
	<b>CORE COURSES</b>		
MLSC 503	Genetics and Molecular Biology	2	-
MLSC 504	Cytogenetics	-	3
MLSC 507, *508	Clinical Laboratory Postings V, VI	3	3
MLSC 513	Research Methodology	3	-
MLSC 515	Seminar	2	-
MLSC 517	Supply Chain and Laboratory Management	2	-
MLSC 590	Research Project	-	6
MLSB 506	Specialized Haematological Techniques	-	3
MLSB 507	Blood Group Serology I	3	-
MLSB 508	Specialized Blood Group Serology Techniques	-	3
MLSB 509	Blood Group Serology II	3	-
MLSB 510	Haemostasis	-	2
MLSB 515	Haematology	3	-
	<b>TOTAL (44 Credits)</b>	<b>21</b>	<b>23</b>

*\*Note: Students are expected to write their Final Professional Examinations to include Theory, Practical and Oral, to be moderated by Medical Laboratory Science Council of Nigeria.*

**BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)**  
**500 LEVEL COURSES**  
**CHEMICAL PATHOLOGY -*OPTION***

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		



GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
MLSC 503	Genetics and Molecular Biology	2	-
MLSC 507, *508	Clinical Laboratory Postings V, VI	3	3
MLSC 513	Research Methodology	3	-
MLSC 515	Seminar	2	-
MLSC 517	Supply Chain and Laboratory Management	2	-
MLSC 590	Research Project	-	6
MLSP 508	Techniques in Clinical Chemistry I	-	3
MLSP 504	Drug Monitoring, Toxicology and Inborn Errors of Metabolism	-	3
MLSP 506	Clinical and Reproductive Endocrinology	-	3
MLSP 519	Nutrition and Clinical Vitaminology	3	-
MLSP 510	Techniques in Clinical Chemistry II	-	2
MLSP 515	Clinical Enzymology	2	-
MLSP 525	Chemical Pathology I (Carbohydrates, Proteins and Lipid Metabolism)	3	-
MLSP 527	Chemical Pathology II	3	-
	<b>TOTAL (45 Credits)</b>	<b>23</b>	<b>22</b>

*\*Note: Students are expected to write their Final Professional Examinations to include Theory, Practical and Oral, to be moderated by Medical Laboratory Science Council of Nigeria.*

## **BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)**

### **COURSE DESCRIPTIONS**

#### **BIOL 101: GENERAL BIOLOGY I**

**3 Credits**

Course taken at the department of Biosciences and Biotechnology would include characteristics of living and non-living things. Scientific methods to Biology concepts.

Taxonomy of living organism –Microbes. Plants including field and herbarium methods. Morphology and life cycles of phyla and plant kingdoms. Cell concepts, structure, organization, functions and chemical and physical characteristics. Plants and tissues and organism systems. Elements of biological chemistry- aspects of organic, inorganic and physical chemistry relevant to biology.

**BIOL 102: GENERAL BIOLOGY II**

**3 Credits**

Course taken at the department of Biosciences and Biotechnology would include genetics and its scope. Mendel and his laws of inheritance. Physical and chemical basis of Inheritance. Man as an object of genetics. Modifications of classical Mendelian ratios. Heredity and environment. Probability and the chi square Quantitative and multiple allelic inheritance. Sex development, sex linkage and sex abnormalities. Mutations, Heredity, Eugenics and the future of mankind.

**CHEM 101: GENERAL CHEMISTRY I**

**3 Credits**

Course taken at the department of Biosciences and Biotechnology would include an introduction to atomic structure, Development of electronic configuration of the elements. Stoichiometry and mole concept. The periodic classification of the elements. General study of one or two representative elements of groups in the periodic tables with emphasis on similarities and differences based on position of the elements. Radioactivity and its applications. Structure of solids.

**CHEM 102: GENERAL CHEMISTRY II**

**3 Credits**

Fundamental chemical Course taken at the department of Biosciences and Biotechnology would include principles: the gas law, kinetic theory of gases, Raoult's laws, Henry's law and molar determination. Thermo chemistry, chemical equilibrium, law of mass action, reaction rate and chemical energetic. Electrochemistry. Ionic equilibrium. Theory of acids, bases and indicators. Phase equilibrium study of one and two components systems.

**MATH 101: GENERAL MATHEMATICS**

**3 Credits**

(Prerequisite: O'level Mathematics or equivalent) Elementary set theory, subsets, union, intersection, complements, Venn diagrams, real numbers, integers, rational and irrational numbers, mathematical induction, real sequences and series theory of quadratic equations, binomial theorem. De Moiré's theorem, nth roots of unity. Circular measure, trigonometric functions of angles of any magnitude, additional and factor formulae.

**MATH 102: GENERAL MATHEMATICS (Calculus) 3 Credits**

Function of real variable, graphs, limits and idea of continuity. The derivatives, as limit of rate of change. Techniques of differentiation. Extrema curve sketching: Integration as an inverse of differentiation. Methods of integration. Define integrals; Application to areas, volume.

**PHYS 101: GENERAL PHYSICS I 3 Credits**

Measurements, Units and Dimensions. Linear motion. Relevance of linear kinematics to science and physiological effects of accelerations. Motion in a circle and simple harmonic motion. Gravitation, statics and hydrostatics, elasticity, friction, viscosity and surface tension. Heat, temperature, thermometers. Expansion of solids, liquids and gases. Gas exchanges in terrestrial organism. Heat transfer, change of state. Heat regulation in animals, low temperature in biology and in medicine. Waves and resonance – ultra sound and its application.

**PHYS 102: GENERAL PHYSICS II 3 Credits**

Propagation of light at plane and curved surfaces. The human eye – photosensitive pigments in the eye, colour vision and the insect eye. Optical instruments: Ophthalmoscope and compound microscope. Radioactivity and useful effects of radiation. Current and static electricity, introductory magnetism and alternating currents. Introductory atomic physics and electronics.

**MLSC 214: INTRODUCTION TO BIOMEDICAL LABORATORY SCIENCE 3 Credits**

General introduction to medical laboratory subjects, namely: clinical chemistry, haematology and blood group science, medical microbiology, histopathology and immunology. Safety precautions in pathology laboratories Specimen collection, reception and registration, storage and disposal. Specimen bottles. Microscopy and microtomy, use and care of microscopes. Sterilization - principles and techniques, glassware care and maintenance. Refrigeration - principle, use and care. Handling of laboratory animals.

**BCHM 201: FOUNDATIONS OF BIOCHEMISTRY I 3 Credits**

Experimental discoveries and the history of biochemistry. Contributions of the following biochemists to the subject: Nueberg, Emil Fisher, Warburg, Michaelis-Menten, Krebs, C. Cori and G Cori, Hills Ochoa, Calvin and Benson, Watson and Crick, Jacob, Monod, Niremberg, Sanger, Bornberg and others. Structures and functions of major cell components; Prokaryotic versus Eucaryotic organisms. Chemistry of amino acids, proteins and their derivatives; Methods of isolation and identification; Chemistry and structures of carbohydrates, proteins, lipids and nucleic acids.

**BCHM 202: FOUNDATIONS OF BIOCHEMISTRY II 3 Credits**  
**(See BIOCHEMISTRY REVISED CONTENT)**

Review of structures, properties and biological significance of proteins, carbohydrate, lipids and nucleic acids. Primary, secondary, tertiary and quaternary structures of proteins. Determination of structures and biochemical applications of proteins. Nomenclature of nucleoids and nucleotides. Hydrolytic effects of acid and alkali on nucleic acids.

**PHGY 208: CARDIOVASCULAR PHYSIOLOGY****3 Credits**

Overall objective for this course is for the student to understand and appreciate the structure and functioning of the various units that makes up the CVS; which are the heart, arteries, capillaries and veins, while emphasizing on the virtue of team spirit as the heart and vessels work in harmony to make man hail and healthy by transporting blood around the whole body.

The mechanical events of the heart; cardiac cycle, output and its estimation reflect on the importance of excellence which the heart and vessels maintains as determined by the systolic, diastolic and pulse pressure.

**PHGY 213: BLOOD PHYSIOLOGY****3 Credits**

This course offers a look into the central role that blood plays in the human system. From its formation to the functions of its various components the students will learn that truly the life of the organism is in its blood. Team spirit among blood cells will be emphasized.

**PHGY 212: RESPIRATORY PHYSIOLOGY****3 Credits**

Physiology anatomy of respiration apparatus, belief review of relevant gas laws. Lungs volumes mechanics of breathing. Gas diffusion through alveoli capillary membrane. Pulmonary circulation, ventilation perfusion ratio. O<sub>2</sub> and CO<sub>2</sub> transport. Controls of respiration, hypoxias O<sub>2</sub> treatment, abnormal types of breathing. Altitude and depth acclimatization. Respiratory adjustments in health and disease. Aerospace physiology. Deep sea diving.

**PHGY 217: INTRODUCTORY TO PHYSIOLOGY AND ANS****3 Credits**

Physiology is basically the study of the normal functions of the different parts of the body. This course gives general introduction to the subject of physiology starting from the cell's structure and function as the building units of the body to all muscles and nerves, to the autonomic and sympathetic nervous systems and how Physiology relates to modern day technology in research and scientific discovering also human genetics, and human genome. The course portrays how the cells are accountable for the effective functioning of the human body and emphasize the team spirit of the body organs. The description of Reuben in Genesis 49:3 can be likened to the description of a cell in the study of Physiology. In this course, topics like Membrane potentials, Nerve impulse and its physiological properties; Synaptic transmission. Mechanism of force production; functional adaptations of muscles. Functional organization of central nervous system, autonomic neurotransmitter and autonomic effects will be taught.

The mechanical events of the heart; cardiac cycle, output and its estimation reflect on the importance of **excellence** which the heart and vessels maintains as determined by the systolic, diastolic and pulse pressure.

**ANAT 221: GROSS ANATOMY I****3 Credits**

(Upper limb, thorax, abdomen, pelvis and perineum) upper limb/pectoral region cubital fossa, carpal tunnel. Hand nerve injuries. Shoulder, elbow and wrist joints. Osteology of the pectoral girdle and free bones. Vascular, nervous system and lymphatic drainage of the breast and upper limbs. Thorax-intercostal spaces. Mediastinum, diaphragm, abdomen. Osteology of the ribs and thorax vertebrate. Anterior abdominal wall and associated structures, rectum, prostate. Urinary

bladder, uterus, pelvic floor, blood vessels, nerves and lymphatic drainage of the region  
Osteology of the lumbar vertebrae and pelvis.

**ANAT 224: GROSS ANATOMY II 3 Credits**

(Lower limb, head and neck, CNS) lower limb, gluteal region and femoral triangle, the thigh, leg and foot, hip, knee, ankle and midtarsal joints. Blood vessels, nerves and lymphatic drainage of the neck, parotid region, nasal cavity, oral cavity, pharynx, orbit eye, ear, mechanism of hearing, smell, vision and taste. Osteology of bones of the skull and cervical vertebrae, CNS; brain, cerebellum and cerebellum, cranial nerves.

**ANAT 209: GENERAL EMBRYOLOGY 3 Credits**

God is aware and involved in the process of creation and development [Genesis 1:28; Psalm 139: 13-16; Genesis 30:22; **Psalm 22:9-10**]

Origin of germ cells; spermatogenesis and oogenesis; sex determination; menstruation; ovarian cycle and ovulation. Fertilisation, cleavage and gastrulation, formation of germ layers; notochord and neural tube; foetal membranes, placenta; foetal circulation and changes after birth. Congenital malformations.

**PHGY 221: GENERAL PRINCIPLES OF PHYSIOLOGY II 3 Credits**

Course taken at the department of Physiology would include understanding of normal functioning of the human system, maintain equilibrium between internal and external environments, review of cell and its properties including cell division, functioning of the digestive system, mechanism of defaecation, blood and the cardiovascular system, body fluid mechanism, the endocrine system, respiratory and gas transport system, breathing mechanism and control of respiration.

**PHGY 222: GENERAL PRINCIPLES OF PHYSIOLOGY II (2-1-0-0) 3 Credits**

Course taken at the department of Physiology would cover renal physiology including urine formation and hormonal influences, micturition, the skin and general homeostasis, reproductive system physiology Membrane physiology and special senses Mechanism of force production; functional adaptations of muscles. Functional organization of CNS, the limbic system and autonomic nervous system. Functions of neurotransmitters and the nerve impulses physiological properties of synaptic transmission. This course combines the study of at least four (4) systems together by highlighting the major aspects as needed by the departments involved. It is a combination of excellence (homeostasis), integrity (Renal and Endocrine systems) and commitment of the body systems to one another. These connote Babcock University core values. The systems taught in this course can be buttressed by Genesis 9:7, Judges 4:19, Luke 1:31, Luke 11:34-36, John 4:14, Romans 12:20, I Corinthians 8:1, I Corinthians 12:12 and Hebrew 5:14.

**ANAT 216: HISTOLOGY AND BODY SYSTEM 3 Credits**

**Biblical principles:** Cells – The building blocks of life Gen. 2:7. Creative science versus Darwinian evolution Gen. 1:27, Gen 1:1

Includes topics in introductory and basic Histology which includes the cell and theory, cell organelles and inclusion; the cell membranes structures; tissue, nervous tissues, bone and

cartilage tissues; blood and blood vessels; lymphoid tissues, histology of nose. Pharynx and trachea; lung, pleura and bronchial tree; oral cavity, esophagus; stomach and intestines; liver and pancreas; kidney, urethra and bladder; ovary and fallopian tube; vagina; epididymis, vas deferens and testes; seminal vesicles and prostate; the endocrines.

**CHEM 213: ORGANIC CHEMISTRY I**

**3 Credits**

Kinetics and energetics of reactions; multiple bonds, aromatic compounds, chemistry of C-halogens bond. Chemistry of hydroxyl group; ethers, thiols and thioethers.

**CHEM 214: ORGANIC CHEMISTRY II**

**3 Credits**

Amines and Derivatives; Chemistry of the Carbonyl group; Chemistry of Carboxylic Acids and Derivatives; Sulphuric Acids; some Important types of Natural Products Lipids, Carbohydrates, Chemistry of Amino Acids and Proteins. Kinetics and Energetics of Reactions; Multiple Bonds; Aromatic Compounds; Chemistry of C-Halogens Bond; Chemistry of Hydroxyl group; Ethers, Thiols and Thioethers.

**MLSC 310: BASIC HEMATOLOGY**

**3 Credits**

**Biblical principles:** For the life of flesh is the blood Leviticus 7:11a

Origin, development and functions of blood cells. Synthesis and breakdown of hemoglobin. Methods of Haemoglobin estimation. Methods of cell counting. Absolute values. Introduction of Homeostasis. Principle and mode of action of common anticoagulants. Principle and components of Hematological stains. Simple tests used in blood coagulation. Blood films - normal and abnormal. Practical classes.

**MLSC 319: IMMUNOLOGY AND IMMUNOCHEMISTRY I**

**2 Credits**

The historical background of immunology. Non-specific and specific immunity. Innate immunity and factors affecting innate immune response e.g age, race, anatomical factors, nutrition, hormones etc.

Acquired immunity: active and passive immunity. Factors affecting acquired immune response. Primary and secondary lymphoid organs. Molecular basis of immune reactions. Structure of antigens, antigenic determinants and cellular responses. Fate of antigens and requirements for antigenicity. Antigen presenting cells. Immunoglobulins: structure, functions and classification. Structure and activation of T-cell antigen receptors. Antigen-antibody interactions. Phagocytic cells, chemotaxis, functions of macrophages and granulocytes. Genetic basis of antibody diversity.

**MLSC 325: LABORATORY POSTINGS I**

**3 Credits**

Laboratory posting students are posted to medical laboratory for on-the-job training under the supervision of qualified medical laboratory scientist for 3days weekly for the entire semester and the whole of the long/summer vacation. Scored log book records are kept for each student per posting.

**MLSC 326: LABORATORY POSTINGS II**

**3 Credits**

Posting of students to all sections of routine Medical laboratories for on the job training under the supervision of qualified Medical Laboratory Scientists. Close scoring of performance, data cards, evaluation. Scored logbook records per bench are kept for each student per posting.

**MLSC 328: INTRODUCTORY MEDICAL MICROBIOLOGY****3 Credits**

**Biblical principles:** Teaching must give exposition on the **causes** of diseases, the **reason** for the existence diseases and the acknowledgement of God as the originator of **healing or cure** (Exodus 15:26). The concept of sterilization and its benefit must be emphasized (Ex.16-24).

Scope of microbiology; historical approach etc. Classification and nomenclature of microorganism. Introduction to the microbial world; introduction to Bacteriology, Mycology, Virology and Parasitology (the Protozoan).

General properties, structure, biology of bacteria, viruses, fungi and parasite. Morphology, groups and classification, method of reproduction, resistance and pathology of microorganisms. Identification and demonstration of microorganisms in the laboratory.

**MLSC 331: MEDICAL LAB. INSTRUMENTATION AND TECHNIQUES 3 Credits**

**Biblical principles:** Emphasis must be placed upon God's endowment of man with the ability to rightly diagnose disease conditions through the use of equipment. 2Chrn 16:12, Dan 1:4, Job 39:17.

Instrument aspects of qualitative and quantitative analysis – theory and practice of some common analytical techniques: colorimetry, spectrophotometry, flame photometry, conductometry, polarography, colorimetry etc. Osmometry, Nephelometry, Turbidity, pH, Measurement by ion selective electrodes. Separation techniques include Electrophoresis, paper, cellulose acetate, Agar gel, polyacrylamide gel, isoelectric focusing. Chromatography; paper, thin layer chromatography, gas and liquid chromatography, Ion exchange resins, gel filtration, molecular sieves; Dialysis Filtration, solvent extraction, centrifugation-Ultracentrifugation. Immuno-electrophoretic techniques, Enzyme Immuno Assays, Receptor Assays, Automation, Micro and Ultramicro Analysis. Practical based on the above topics. Theory and practice of some common Analytical techniques including tissue processing, Microscopy and other basic Microbiological Equipment, principles of equipment for haematological assays, other applied techniques in the Medical Laboratory with emphasis on General Medical Laboratory instrumentation. Practical on the above topics

**MLSC 333: BASIC PHARMACOLOGY AND TOXICOLOGY I****3 Credits**

**Biblical principles:** Genesis 1:29, States; And God said, "Behold, I have given you every herb-bearing-seed which is upon the face of all the earth and every tree in which is the fruit of a tree yielding seed, to you it shall be meat" (KJV).

Pharmacological terms. Drugs, sources and nature including structure/activity relation. Bioassays. Routes of administration, absorption, biotransformation and Elimination. Drug receptors and receptor isolation. Fluorescent, radioisotopic and chromatographic methods in drug studies. Methods of evaluation of toxins, mutagens and carcinogens. Principles, administration, absorption and elimination of anti-cancer drugs, antiretroviral drugs, anti-inflammatory drugs and antifungal agents.

**MLSC 334: BASIC PHARMACOLOGY AND TOXICOLOGY II****3 credits**

**Biblical principles:** Revelation 22:2 "In the midst of the street of it and on either side of the river, was there the tree of life which bear, twelve manner of fruits, and yielding her fruit every month, and the leaves were for the healing of the nations". (KJV)

Principles of antibiotics and chemotherapy, mode of bacterial resistance to antibiotics. Sensitivity testing. Preparation of antibiotic discs. Minimum inhibition Concentration of

antibiotics. Mode of action of antibiotics. Classification of antibiotics, use of guinea pig model in the study of microbial infections. Determination of the presence of antibiotics in urine. Antibiotics in use in immunosuppressed patients. Determination of presence of antibacterial agents in serum. Toxic antibiotics. Fall and Rise phenomenon.

**MLSC 335: NUCLEIC ACID BIOCHEMISTRY AND BASIC CONCEPT OF MOLECULAR BIOLOGY** **2 Credits**

**Biblical principles:** The relationship between being created in the image of God and the genetic codes should be explained. (Gen 1:26, Matt 12:50, 1John 5:4)

Metabolism of purines and pyrimidines, nucleotides. Genome organization, flow of genetic information. Mutations. Abnormalities in nucleic acid metabolism; Xeroderma pigmentosum, gout and cancer. Introduction to Molecular Biology and Genetic Engineering; Nucleic acid hybridization, Isolation and purification of nucleic acid, Amplification techniques (Polymerase Chain reaction), nucleic acid enzymes, genetically modified organisms. Practical on the above topics.

**MLSC 336: BASIC BLOOD GROUP SEROLOGY** **2 Credits**

ABO and Rhesus Blood Groups - inheritance, distribution and genetics theory. Blood Grouping Techniques- principles, advantages and disadvantages. Preparation of antisera, titration, avidity, potency and specificity. Plant lectins - preparation and standardization of antisera from lectins e.g. Dolichols biflorus. Anticoagulants used in BGS e.g. ACD, CPD, CPD-A; etc, modes of action, side effects. Blood bottles (MRC) and plastic blood bags-advantages and disadvantages. Donor screening using CuSO<sub>4</sub> method, other methods of screening. Classes and properties of immunoglobulins.

Practical/Tutorials on ABO and Rhesus grouping methods, antiserum titration, Direct and Indirect Coombs' tests, antibody screening.

**MLSC 337: BASIC CLINICAL CHEMISTRY** **3 Credits**

**Biblical principles:** Appreciate the fact that God ultimately stands behind the mechanisms of life and He sustains all things through His power (**Heb 1:3**). This is demonstrated through the coordination and interaction of biochemical metabolites in the body.

Traditional and S.I unit in clinical chemistry; Reference values. Gastric function test; Agents for Gastric stimulation. Ward procedures and Laboratory investigations of Gastric secretions. Intestinal functions tests; Digestion and absorption; Malabsorption. Real function tests; Glomerular filtration rate –creatinine, Inulin clearance, Concentration and dilution Test; urinary Acidification Tests, urine specific gravity /Osmolality Dye Excretion test. Water and Electrolyte metabolism. Acid base balance; Definition and causes of acidosis and alkalosis; Blood buffers. Transport of blood gases assessment of acid/base status. Lipids; definitions and types of lipids; formation of free fatty acids, Ketone bodies and Lactate; Measurement of plasma lipids. Serum proteins and methods for the determination of total protein in serum. Carbohydrate metabolism, blood glucose homeostasis; hyperglycemia; diabetes mellitus-its causes and investigation: Hypoglycemia types, causes and investigation. Practical on the above topics.

**MLSC 338: BASIC BIOMEDICAL ENGINEERING** **3 Credits**

Workshop practice. Principles of use maintenance and repair of common apparatus and laboratory equipment. Principles of applied and general electronics. Circuit diagrams, computer programming. Improvisation. Glassblowing and construction of simple laboratory equipment. Design techniques, fault finding, care and maintenance of common electrical equipment in laboratory use. DC currents and resistors capacitors, potentiometers and resistance boxes,



galvanometers and AVO meters, solenoid, rheostat and transformers thermostats, semi conductors and rectifiers-filters, photomultiplier tube and scintillators. Improvement on existing equipment, review and modifications of laboratory methods.

#### **MLSC 341: PRACTICAL IN PHARMACOLOGY AND TOXICOLOGY      2 credits**

Substance concentration and drug dosage formulation, effect of different routes of administration on drug effect, dose-response relationship, determination of oral and intraperitoneal acute toxicities and therapeutic index, determination of agonist and antagonist action of drugs, effect of drugs on exposed frog heart, bioassay, test for analgesia and analgesics, antihistamines-protection against anaphylactic shock, evaluation of anxiolytic and sedative effects of drugs in rodents, investigation of anti-stress/antidepressant activity, effects of neuromuscular drugs on a day old chicks, investigating anticonvulsant effects of drugs, evaluation of anaesthesia in rats.

#### **MLSC 344:      BASIC HISTOPATHOLOGY      3 Credits**

**Biblical principles:** Tissue preservation in the Bible – Gen 50: 2, 26, Preserving Christ's cellular architecture – John 19:38-40. Aromatic fixatives in the Bible – Gen 50 v 2, 3, 26 Myrrh, aloe

Introduction to Histopathology. Histological sample reception and documentation. Fixation and fixatives. Autolysis, putrefaction and bacterial decomposition. Principles and objectives of fixation. Effects of fixation, common fixation agents and their uses. Quality control of fixation. The ideal fixative. Choice of fixatives, Secondary fixation, post-fixation and post-chroming and post-mordanting. Fixation pigments. Dehydration, clearing and infiltration/embedding. Frozen and celloidin sections. Embedding media. Principles and applications of Exfoliate Cytology. Collections and fixation of specimens for museum jars. Tissues and cellular injury inflammation. Examination. Slide section to illustrate common tumors.

#### **GEDS 430: CHARACTER FORMATION AND SPIRITUAL GROWTH      3 Credits**

The course focuses on the Biblical perspective on character formation and spiritual growth of the student. Recognizing that character formation and spiritual growth are both a life-long process the course emphasizes the need for spiritual nature and care. This is expected to lead to the renewing of the mind and the maturing and growing of the Christian identity. The course also identifies how God utilizes Scripture, people, contexts, literature, spiritual disciplines, and events to transform believers into the image of Christ.

Specifically, the spiritual disciplines of prayer, feeding on the Word and meditating on it are intentionally designed to foster spiritual growth. The course underscores the role of the Holy Spirit in building a systematical and Christ-like character. While references to some Bible characters with a view to evaluating their strengths and weakness may be helpful a major focus of the course is on the life of Christ, the one and only perfect character. By daily contemplating the character of Christ the student becomes changed to the same image. Students offering the course are expected to imbibe the character traits of love, faithfulness, reverence, integrity, piety that will equip them to render selfless in the wider society.

#### **MLSC 405: PROFESSIONAL ETHICS IN MEDICAL LABORATORY SCIENCE      2 Credits**

Introduction to the science and profession of medical laboratory science. The different arms of medical Laboratory sciences. Hall marks characterizing the lives of professions; licensing to practice. Group culture patterns. Justice, rights and responsibilities as a professional. The concept of duty, professional and laboratory management. Authority and discipline. The use of reason. Personal relationships- inter and intra professional, Act of good faith. Place of religion in the hospital. Value judgment, exercises of professional judgment, skill and care charge and well-being of patients. Patients-professional, relationship-confidentiality, communication skills; trust; seeking to safeguard patients, particularly in respect to health and safety and information. Research training, professional development, knowledge and skill, quality control in the field of medical laboratory sciences and practice; Reputation. Fulfillment of professional role with integrity, refraining from its misuse to the patients, employers and colleagues. Ethics and policies on human and non-human subjects in research. Medico-legal aspects.

**MLSC 410: INTRODUCTION TO CYTOLOGY 2 Credits**

**Biblical principles:** From single cells to man, specialization and progression Gen. 1:27, Gen 1:1 Collection, selection and preparation of cytological specimens (cervical smear, vaginal smear, bronchial aspirates, ascetic fluid, and other fluids). Cytology staining techniques, normal atypical and malignant cells. Cornification index, maturation, progesterone/androgen effects.

**MLSC 412: MEDICAL ENTOMOLOGY AND PARASITOLOGY 3 Credits**

**Biblical principles:** Teaching must give revelation on the cycle and medical importance of arthropods in epidemiology and vectors of diseases (Ex. 8:17-18). Arthropods of medical importance-the crustaceans, Arachnida, Hexapoda, Myiasis etc their biology, life cycles and control. Life history as disease vector; various diseases of importance transmissible by insects. Biology of mosquito in relation to transmission of malaria, filariasis, and viral infection etc. Introduction to the parasite. Nematodes (Ascaris, strongiloides, trichuris, Guineaworm, Hookworms, trichinella, Enterobius etc). Life cycle and pathogenicity of Cestodes. (The tapeworms, Larval forms of cestodes). Life cycle and pathogenicity of the Trematodes (the Schistosoma, Fasciola, paragonimus, etc). methods of demonstration of parasites in blood, faeces, vagina, Urine, urethra, pus from lung and liver, skin snips, etc, Mechanisms of their disease production; Epidemiology and control of parasitic disease.

**MLSC 414: IMMUNOLOGY AND IMMUNOCHEMISTRY II 3 Credits**

The complement system in immune response. Hypersensitivity, immune-pathology, autoimmunity, tumour and transplantation immunology. Immunization, immune control of diseases. Immunochemical techniques in Medical Microbiology, Chemical Pathology, Haematology and Histopathology; Haemagglutination and complement fixation tests, precipitation reactions, immunoblotting, cytotoxic assay. Lymphoproliferative organs and their functions in immune responses. Diagnostic tests for assessing humoral immunity. Tissues and organ transplantation, HLA system. Major Histocompatibility Complex.

**MLSC 416: HISTOPATHOLOGY 3 Credits**

**Biblical principles:** What does the Bible say about cancer? II Cor. 4:16 -18, Matt. 15:13 Principle of Histochemical methods. Silver impregnation methods. Genes, DNA and the Genetic Code. Genetics in Histopathology. DNA demonstration by Feulgen techniques. Tissue culture technique; Chromosome analysis. Autoradiography - definition and principle. Organization of a

medical Museum. Methods of colour maintenance. Fixation storage of museum specimens. Special museum techniques e.g. Dawson's Method. Principle of photography, preparation of stained sections for micro photography. Preparation of specimens for preparation of stained sections for micro photography. Cytological normal cells. Histology of tissues. Atypical and malignant cells. Collections of cytological smears, processing and screening. Principles of general pathology. Systemic pathology. Gastrointestinal tract. Urogenital, cutaneous. Respiratory –Tuberculosis. Nephropathy associated with infestations and infections. Principle of Electron microscopy; materials for electrons microscopy. Embalming techniques and demonstrations and infections. Practical based on the topics.

#### **MLSC 417: MEDICAL BACTERIOLOGY / MYCOLOGY**

**3Credits**

**Biblical principles:** Staining should be taught as an act of diagnosis for characterization or differentiation while its benefits in curative and disease prevention should be appreciated (Ex. 12:7, Ex. 12:13, Genesis 30:38-39).

The general properties of bacteria, structure, growth, reproduction, requirements both environmental and nutritional. Aspect of bacterial metabolism, bacterial genetics and variation. Sterilization in microbiology, bacteria in health and disease. Antibiotics and chemotherapy. Infection and Immunity. Introduction to laboratory techniques and methods including serology. General properties of bacteria.

Morphology, groups and classification of fungi. Types of lesion and types of mycoses, growth requirements. Characteristics and general features of fungi and their diseases. Identification and demonstration in the laboratory.

#### **MLSC 420: HAEMATOLOGY**

**3 Credits**

Anaemia in community, classification, mechanism and laboratory investigations. Iron metabolism, folate and B12 metabolism. Nomenclature, classification and investigations of common haemoglobinopathies. Haemolytic anemia. Myeloproliferative and lymphoproliferative disorders. Haemostasis and disorders of haemostasis; investigation of bleeding disorders. Practical classes.

#### **MLSC 428: BLOOD GROUP SEROLOGY**

**3 Credits**

**Biblical principles:** Only be sure that you do not eat the blood, for the blood is the life, you may not eat the life with the meat.

Blood group- other blood group systems e.g. MNSs, Duffy, Kidd etc. Grouping techniques, antibody screening and identification; antenatal serology-screening and titration- clinical significance. Compatibility procedures – the different methods, advantages and disadvantages. Blood transfusion adverse effects-anaphylactic, haemolytic and allergic reactions. Screening of donor blood for infectious disease agents e.g HBs Ag, HIV, VDRL etc. Storage of blood and blood products – various methods: advantages and disadvantages. Blood group specific substances-synthesis, identification methods and application. Quality Control of personnel, equipment, chemicals and reagents. Practicals based on the above topics.

#### **MLSC 437: CHEMICAL PATHOLOGY**

**3 Credits**

**Biblical principles:** Emphasis must be placed upon God's endowment of man with the ability to rightly diagnose disease conditions. 2Chrn 16:12, Dan 1:4, Job 39:17.

Porphyrin, causes, symptoms and laboratory investigation of porphyrinaemia, porphyria and porphyrinuria, haemoglobin, synthesis, function. Glycated haemoglobins. Abnormal haemoglobinopathies, SphHb, COHb. Liver Function Tests. Mechanism of Enzymes and action and kinetics: Clinical Enzymology; Iso-enzymes in medicine. Coenzymes and Vitamins. Definition, causes, consequences and investigation of some inborn errors of metabolism; phenylketonuria, galactosemia fructose intolerance, Albinism, aminoaciduria. Endocrine glands and functions; the hypothalamus, the pituitary, the parathyroid, adrenal cortex, adrenal medulla, the gonads and reproductive endocrinology. Foeto-placental function. Calcium and bone metabolism. Pancreatic function tests. Basic neurochemistry, CSF-normal composition and changes in disease. Practical on the above topics

#### **MLSC 443: LABORATORY POSTING III**

**3 Credits**

Posting of students to all sections of routine Medical Laboratories for on the job training under the supervision of qualified Medical Laboratory Scientists, close scoring of performance, data cards evaluation. Scored logbook records per bench are kept for each student per posting.

#### **MLSC 444: LABORATORY POSTING IV**

**3 Credits**

Students are posted to the laboratory for further practical experience in Laboratory Techniques and Management for all disciplines under the supervision of Laboratory Scientists. Students participate in all the routine activities of the laboratory.

This course comprises assessment from Laboratory posting, Practical and comprehensive MCQ, Essay and Orals in all disciplines. Candidates will be expected to show knowledge of the relevant Parts of the syllabus and may be required to withdraw on this knowledge in the first Professional examination.

#### **PHSC 202: BIOSTATISTICS**

**3 Credits**

Characteristics and application of biostatistics in clinical and preventive medicine. Inferential and descriptive statistics, measurement of central tendencies; mean, median, mode, dispersion, standard deviation, coefficient of variation. Elements of probability. Hypothetical tests of statistical significance; null and alternative hypotheses, control of errors in hypothesis testing. Quantitative and qualitative variables; hypothesis testing for the variables, analysis of variance, regression and correlation, confidence intervals. Statistical methods and factors that determine the choice of statistical methods e.g nature of study, sample size, study design e.t.c. Epidemiological designs and clinical trials, validity of diagnostic tests and instruments; specificity, sensitivity, accuracy, predictive values, prevalence of diseases.

#### **MLSC 445: INTRODUCTORY MEDICAL VIROLOGY**

**3 Credits**

Morphology and life cycle of viruses, nomenclature and classification of viruses. Reproduction and multiplication of viruses, resistance, pathology, collection of clinical specimens for viral culture. Culture: methods of isolation, purification, immunity, laboratory and various methods of diagnosis of viral infection. Haemagglutination test, CFT, neutralization test, systematic study of viral diseases. Interferon, immunotherapy and chemotherapy in viral infection, inclusion bodies and cytopathic effects. Viral and host interactions and identifications, Viral vaccines and immunoprophylaxis.

#### **GENERAL COURSES FOR ALL 500 LEVEL SPECIALITIES**

## **GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

Biblical principles serve as a bedrock in the building of personal and professional life. The Bible, itself, is an excellent resource or manual for instruction in morality as well as in providing the ethical underpinnings for all disciplines. The educational process will flounder in the quicksand of humanistic philosophies if it is not anchored on the timeless, God-given guidelines as enshrined in the Holy Scriptures. Thus the course is designed to provide the students with the requisite spiritual and moral instructions and their interconnectedness with the students' chosen disciplines. While due emphasis will be given to the cognitive aspect of the instruction, the pragmatic nature of the course will be clearly demonstrated. Students will be made to understand that there are biblical principles they can employ in practically every discipline. For example, there are Biblical principles that apply to disciplines such as Banking and Finance, Political Science, Accounting, Public Health, Medical Laboratory, History and International Studies, computer Science, specific precepts and practices may be identified and drawn from the Bible as they apply to the disciplines. Students who take the course are expected to imbibe the positive moral attributes of honesty, integrity, diligence, courage, humanity, excellence and apply them in their personal and professional lives.

## **MLSC 503: GENETICS AND MOLECULAR BIOLOGY**

**2 Credits**

Genomic, Gene purification and amplification. Polymerase Chain Reaction(PCR) technique. Construction of genetic maps. Biotechnology-recombinant DNA, Hybriodoma.

## **MLSC 507: CLINICAL LABORATORY POSTINGS V**

**3 credits**

Students are posted to the different units/benches of their specialty for detailed practical experience or training in the different analytical techniques used in the department. Students participate in the routine operation of the laboratory. Scored logbook records per bench are kept for each student per posting.

## **MLSC 508: CLINICAL LABORATORY POSTINGS VI**

**3 credits**

Students are posted to the different units/benches of their specialty for detailed practical experience or training in the different analytical techniques used in the department. Students participate in the routine operation of the laboratory. Scored logbook records per bench are kept for each student per posting.

## **MLSC 513: RESEARCH METHODOLOGY**

**3 Credits**

Introduction to research methodology. Collection of literature review articles problem definition. Sampling technique Experimental designs of medical and public health studies. Questionnaire design and collection analysis. Interpretation and utilization of research findings. The role of research in health and social welfare. The need for institutional and Governmental ethical clearance for some research projects. Research proposals and sourcing of findings for research projects. Art of schooling publications and instructional design.

## **MLSC 515: SEMINAR**

**2 Credits**

Each student will have to make seminar presentation in their area of specialty

**MLSC 517: SUPPLY CHAIN AND LABORATORY MANAGEMENT 2 Credits**

Laboratory management. Planning a medical laboratory including the provisions for the reception of patients. Selection and storage of chemicals, materials and apparatus. Detailed knowledge of the principles, use and maintenance of common laboratory apparatus and equipment used in special workbench. Laboratory hazards and safety measures to be taken in the use of radioactive and dangerous materials. Emergency treatment for accidents. Laboratory Records - maintenance of records: reception, recording, storage, filling and indexing of specimens and result. Organisation and operation of a system of quality control. Cataloging and indexing of laboratory supplies. Methods of recording experiments. Introduction to supply chain, system and logistics; logistic matters and system, logistic cycle and terms. Logistic management information system. Types of logistics records, reporting systems and summary reports, the use of LMIS for decision making in medical laboratories. Assessing stock status; how and when to assess the stock, maximum-minimum inventory control systems. Product selection, registration of clinical laboratory diagnostic products, donor requirements, laboratory supplies and equipment standardization, quantification of health commodities, steps in quantification, health commodity procurement and its importance in supply chain. Procurement process and its challenges; storage and distribution, visual inspection and space requirements. Health care waste management, monitoring and evaluation (M&E) of supply chains, how to develop M&E plan, indicators for M&E of supply chains, data collection methodologies and tools. Provision of feedback and reporting. Logistics system design; process and elements.

**MLSC 590: RESEARCH PROJECT 6 Credits**

A supervised research project on an approved topic to be undertaken by each student for the partial fulfillment of the BMLS degree requirement. Assessment of the project will be both oral defense and grading of the project contents.

**MEDICAL MICROBIOLOGY AND PARASITOLOGY- *OPTION*****GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE 3 Credits**

Biblical principles serve as a bedrock in the building of personal and professional life. The Bible, itself, is an excellent resource or manual for instruction in morality as well as in providing the ethical underpinnings for all disciplines. The educational process will flounder in the quicksand of humanistic philosophies if it is not anchored on the timeless, God-given guidelines as enshrined in the Holy Scriptures. Thus the course is designed to provide the students with the requisite spiritual and moral instructions and their interconnectedness with the students' chosen disciplines. While due emphasis will be given to the cognitive aspect of the instruction, the pragmatic nature of the course will be clearly demonstrated. Students will be made to understand that there are biblical principles they can employ in practically every discipline. For example, there are Biblical principles that apply to disciplines such as Banking and Finance, Political Science, Accounting, Public Health, Medical Laboratory, History and International Studies, computer Science, specific precepts and practices may be identified and drawn from the Bible as they apply to the disciplines. Students who take the course are expected to imbibe the positive moral attributes of honesty, integrity, diligence, courage, humanity, excellence and apply them in their personal and professional lives.

**MLSM 504: PHARMACEUTICAL MICROBIOLOGY AND MICROBIAL GENETICS**

**3 Credits**

Principle of Antibiotics and chemotherapeutic Mode of bacterial resistance to antibiotics. Sensitivity testing. Preparation of antibiogram disc. Minimum Inhibitory Concentration of antibiotics. History of antibiotics, mode of action, classification, antibiotics assay, chemotherapy, use of animal model in the study of microbial infection.

Evolution and inheritance mutation. Bacterial DNA in hereditary and mutation. Molecular basis of mutation, Isolation of mutants. Bacteriophages, plasmids, episomes, transposons and bacterial DNA transfers. Recombinant DNA technology and its applications.

**MLSM 503: MEDICAL MICROBIOLOGY**

**3 Credits**

**Biblical principles:** Teaching must be based on aetiology, diagnosis and symptoms of infectious diseases (Lev. 13:20).

History of pathogenic microbiology. Host-parasite relationship, sources of vectors of infection. Laboratory diagnosis and identification, immunization, serology of bacterial infections. The pyogenic cocci, (*Staphylococci*, *Streptococci*, *Pneumococci* and *Neisseriae* species). The Enterobacteriaceae, coliforms, gastroenteritis, Salmonellosis, Shigellosis, Cholera, *Pseudomonas*, *Bacterioides* etc. The haemophilic bacillus; *Haemophilus*, *Brucella*, *Yersinia*, *Bordetella* etc.

Anaerobic Spore formers, Aerobic spore formers (*Bacillus anthracis*). The Clostridia, the Spirochetes, the Mycobacterium, Rickettsiae, Chlamydiae etc. General pathology, Epidemiology features, diagnosis, control and therapy. Diagnostic Microbiology-Systemic bacteriology. Observation of cultures and cultural methods. Pathogenic mechanisms of bacteria. Antibiotic assays and monitoring from body fluids etc. Anaerobiosis and methods, phage typing; Research Methods and other techniques in Microbiology. Use of metabolic pathways in identification of bacteria. Fluorescent antibody methods. Quality control and instrumentation. Practical based on the above topics

**MLSM 506: MEDICAL VIROLOGY**

**3 Credits**

**Biblical principles:** Viruses cause variety of clinical diseases including tumour (Isaiah 5:12). Emphasis must be placed on case studies, diagnostic techniques, treatment and prevention of viral infections.

The dermatropic and viscerotropic viruses. Smallpox, cowpox, and vaccination; measles, rubella, chickenpox and shingles, Herpes Viruses Yellow fever; lassa fever, Hep A and B influenza, arboviruses. The neurotropic viruses (rabies, poliomyelitis, encephalitis, Lymphocytic Choriomeningitis viruses, viral transformation and types of tumors and viruses. Oncogene theory etc. viral gastroenteritis; Miscellaneous viruses, vaccines and production/immunization.

**MLSM 507: MEDICAL MYCOLOGY**

**3 Credits**

**Biblical principles:** There must be revelation on the origin, causes, medical importance and diagnosis of mycotic diseases, including superficial mycoses (Ex. 9:8-10; KJV Holy Bible encyclopedia, 1989).

General characteristics of fungus diseases, types of mycoses and properties; opportunistic fungi. Diagnostic and chemotherapy, Systemic mycosis (*Cryptococcosis*, *Blastomycosis*, *Histoplasmosis*, *Coccidiomycosis*). Opportunistic mycoses *Candidiasis*, *Phycomycosis*, *Sporotrichosis*, *Chromoblastomycosis* etc. Cutaneous mycoses-Dermatophytoses. Superficial

mycoses. General properties, pathogenesis, diagnosis, epidemiology and control and recognition of fungi.

**MLSM 508: LABORATORY TECHNIQUES IN MICROBIOLOGY 3 Credits**

**Biblical principles:** Training must emphasize the act of diagnosis in disease management (Lev.13:3).

Culture media (different types, compounding from basic constituent and preparation of media). Examination, cultivation and identification of bacteria from different samples, pleura, CSF, urine, sputum, ascitic fluid. Blood culture, High Vaginal swab, wound swabs, eye, ear, nasal and other swabs. Stool bacteriology. Sputum bacteriology. Urine bacteriology. Systemic fungal culture and identification. Semen analysis. Special serological tests. ASO, Widal, VDRL. Rheumatoid factor.

General identification of microorganisms by animal inoculation. Biochemical tests for the identification of *Vibrio cholera*, *Shigella*, *Candida*, *Neisseria* spp.

**MLSM 509: MEDICAL PARASITOLOGY AND EPIDEMIOLOGY 3 Credits**

**Biblical principles:** Teaching methodology must give detailed revelation about origin or source of diseases, cause, mechanism of diseases induction, mode of spread (Mark 7:19).

Introduction to the parasite. Classification, Morphology & life Cycles of protozoa, (the amoebas, the ciliates, the flagellates, nematodes. (Ascaris, Strongyloides, Trichuris, Guinea worm, Hookworms, Trichinella, Enterobius etc). Life cycle and pathogenicity of Cestodes. (The tapeworms, Larval forms of cestodes). Life cycle and pathogenicity of the Trematodes (the Schistosoma, Fasciola, paragonimus, etc). Methods of demonstration of parasites in blood, faeces, vagina, urine, urethra, pus from lung and liver, skin snips, etc, Mechanisms of their disease production: Epidemiology and control of parasitic disease.

The epidemiology and geographical distribution of human disease.

**MLSM 512: PUBLIC HEALTH MICROBIOLOGY AND EPIDEMIOLOGY 3 Credits**

**Biblical principles:** There must be emphasis on the appreciation on moral law of hygiene as critical measures for preventing epidemics (Mark 7:19).

The course emphasizes the application of microbiology and Parasitology principles in Public Health and would cover the study of the characteristics and identification of microorganisms and parasites, particularly different species of bacteria and parasites that cause public health problems. Emphasis is placed on the specific microbial and parasitic agents of communicable and parasitic diseases prevalent in the community. Class activities would include entomology relevant to Public Health. Environmental factors favoring their reservoir, spread and communicability as well as salient features for their control will be highlighted. Current issues regarding the control, intervention, and prevention strategies of these infections and infestations are discussed. Additional emphasis will be placed on collection of samples for microbial and parasitic examination of water and water quality standards, sewage treatment methods and implication in microbial and parasitic and the identification of microbial and parasitic pollutants and contaminants in food and water sources. Visits will be made to water treatment sites, food storage, food handling preparation points to identify source of contaminants thereby providing the basis for personal and community health stance.



## **HISTOPATHOLOGY OPTION**

### **CAPS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

Biblical principles serve as a bedrock in the building of personal and professional life. The Bible, itself, is an excellent resource or manual for instruction in morality as well as in providing the ethical underpinnings for all disciplines. The educational process will flounder in the quicksand of humanistic philosophies if it is not anchored on the timeless, God-given guidelines as enshrined in the Holy Scriptures. Thus the course is designed to provide the students with the requisite spiritual and moral instructions and their interconnectedness with the students' chosen disciplines. While due emphasis will be given to the cognitive aspect of the instruction, the pragmatic nature of the course will be clearly demonstrated. Students will be made to understand that there are biblical principles they can employ in practically every discipline. For example, there are Biblical principles that apply to disciplines such as Banking and Finance, Political Science, Accounting, Public Health, Medical Laboratory, History and International Studies, computer Science, specific precepts and practices may be identified and drawn from the Bible as they apply to the disciplines. Students who take the course are expected to imbibe the positive moral attributes of honesty, integrity, diligence, courage, humanity, excellence and apply them in their personal and professional lives.

### **MLSC 504: CYTOGENETICS**

**3 Credits**

**Biblical principles:** Adam, Eve and Noah versus modern genetics. The flood and genetics – Gen 7:7; Gen 9:18-19. The tower of Babel and genetics – Gen 11:1, 4, 7-8, Gen 10:32

Sex chromosome, inactivation of X-chromosome and sex determination. Theory and practice of clinical cytogenetics. Chromosomes in man. Normal karyotype and chromosome abnormalities. Mosaicism, trisomy, monosomy, translocation. Klinefelter's and Turner's syndromes, sex chromatin, mapping of autosomes and X-chromosome. Genetic diseases. Clones. DNA synthesis, gene kindred segregation. X-linked inheritance. Chimeras. Gene in families and populations. Selection, pedigree analysis, mutation and mutagens. Hardy-Weinberg equation, genetic drift, inbreeding. Slide reporting. Philadelphia and Christ church chromosomes. Cytogenetic prenatal diagnosis and DNA analysis.

### **MLSH 504: HISTOPATHOLOGY TECHNIQUES AND EMBALMMENT**

**3 Credits**

**Biblical principles:** Genesis and genetics. Things were created after their kind – Gen 1

Flourescence microtechniques. Autoradiography principles and techniques. Ultramicrotomy, microincinirator, preparation of stained smears and specimen for microphotography and macro photography respectively. Electron microscope - preparation of materials and embedding, reagents used. Toxicity of some reagents use in electron microscopy. Embalming fluids and embalmment techniques.

### **MLSH 506: MUSEUM TECHNIQUES**

**3 Credits**

**Biblical principles:** Myrrh, Aloes, Spices. The offering of the three wise man Frankincense and myrrh (Mathew 2:11)

Preparation and museum mounting of specimens. Techniques of museum display. Organisation of medical museum. Method of color maintenance. Fixation and storage of musem specimens. Special museum techniques e.g. DAWSON'S METHOD.

## **MLSH 508 INTRODUCTORY CONCEPTS IN ONCOLOGY**

**2**

### **Units**

**Biblical principles:** What the Bible says about tumors – I Cor 4:16-19

Biology of cancer cells. Current concepts in tumorigenesis. Histopathology and cytopathology-guided cancer prognostication. Cancer drug discovery and clinical trials. Epigenetics and cancer development. Screening for biomarkers in oncology. Latest approaches to prediction, prevention and control of cancers. Cancers of the pancreas. Cancer registry management and trends in Nigeria.

## **MLSH 509: EXFOLIATIVE CYTOLOGY**

**3 Credits**

**Biblical principles:** What the Bible says about tumors – I Cor 4:16-19

Introduction to exfoliative cytology. Definitions and principle of exfoliative cytological methods. Diagnostics criteria for malignancy. Kinds of tumours. Sampling. Fixation and staining techniques in clinical cytology. Gynaecytology. Hormonal evaluation. Cells and other constituents in sputum effusions. CSF, urine and other fluid. Slide reporting.

## **MLSH 515: HISTOPATHOLOGY I**

**3 Credits**

**Biblical principles:** Mutation – selection in Biblical perspectives - Gen 7:7; Gen 9:18-19

Theory and methodology of Histochemistry – Chromaffin tissues, Schmol's, Diazo and Perl's and other histochemical techniques. Enzyme histochemistry – Acid and alkaline phosphates, Oxidative enzymes. Genetic diseases. Karyotypic abnormalities. Chromosome techniques. Tissue culture technique. Chromosome staining techniques slide reporting.

Special staining methods – PAS, Manson trichrome, Iron Impregnation Methods. Cytological staining methods and collection of cytological samples. Chromosome analysis. Autoradiography. Museum Techniques. Cyto-screening and slide reporting. Cutting section using the microtome. Tissue (cell) culturing, Fungi, amyloid, enzyme and other specialized demonstration methods.

## **MLSH 517: HISTOPATHOLOGY II**

**3 Credits**

**Biblical principles:** Tuberculosis in the Old Testament – Deut 28:22-24

History taking in pathology, quality control in histopathology, control of result and management of histopathology laboratory. More fact of Electron microscopy and Autoradiography. Cytology of cells. Epithelial cells and tissues, atypical and malignant cells. Gynae-cytology. Hormonal evaluation. Cells and other constituents, sputum, effusions, urine and other fluids. Cytological fixatives and stains. Cytoscreening, principle of general pathology applied to individual organs. Systemic pathology. Hypertensive heart disease, heart failure and cardiomyopathies. Respiratory- tuberculosis. Nephropathy associated with infestations and infections. CNS, special senses. Malignant lymphomas, liver-cirrhosis liver cell carcinoma, Hepatitis virus. Female reproductive organs, pelvic inflammatory diseases. Cancer cervical, trophoblast, ovarian. Skin leprosy, Kaposi's sarcoma. Electron microscopy- preparation of materials for electron microscopy, embedding reagents used in Electron microscopy. Techniques involved in autoradiography, laboratory management. Quality control and automation in histopathology laboratory.

## **HAEMATOLOGY AND BLOOD GROUP SCIENCE OPTION**

### **MLSC 504: CYTOGENETICS**

**3 Credits**

**Biblical Principles:** “Rabbi, who sinned, this man or his parents, that he was born blind?” - John 9: 2

Sex chromosome, in-activation of X-chromosome and sex determination.. Theory and practice of clinical cytogenetic. Chromosomes in man. Normal karyotype and chromosome abnormalities. Mosaicism, trisomy, monosomy, translocation. Klinefelter’s and Turner’s syndromes, sex chromatin, mapping of autosomes and X-chromosome. Genetic diseases. Clones. DNA synthesis, gene kindred segregation. X-linked inheritance. Chimeras. Gene in families and populations. Selection, pedigree analysis, mutation and mutagens. Hardy-Weinberg equation, genetic drift, inbreeding. Slide reporting. Philadelphia and Christ church chromosomes. Cytogenetic prenatal diagnosis and DNA analysis.

### **MLSB 506: SPECIALIZED HAEMATOLOGICAL TECHNIQUES**

**3 Credits**

**Biblical Principles:** For the life of flesh is the Blood Leviticus 7:11a

Principle and techniques of bioelectric focusing. Protein separation by column chromatography. Finger printing, principle and techniques. Purification of proteins and enzymes. Ultra centrifugation and molecular weight determination. Culture of blood cells and parasites. Leucocyte typing, Radioisotope in Haematology; isotope labeling techniques, measurement of radioactivity. Fluorescent antibody techniques. Radioimmunoassay, ELISA, Western blotting, immunoelectrophoresis, competitive protein binding. Automation in Haematology. Electrophoresis-Starch, agar gel and polyacrilamide gel. Principle of Polymerase chain reaction. Cytocchemical procedures. Lymphocyte Transformation Tests. Paul-Bunnell test. Demonstration of iron and fetal haemoglobin.

### **MLSB 507: BLOOD GROUP SEROLOGY I**

**3 Credits**

**Biblical Principles:** ‘And the Lord said, “What have you done? The voice of your brother’s blood is crying to me from the ground. Gen 4:10

ABO and other blood groups – MNS, Kell, Kidd, Duffy, Lewis, P and I etc. Antenatal Serology; Haemolytic disease of the newborn - type, etiology, antenatal and post natal management. Blood group serology in paternity dispute. Complement and its significance in BGS. Haemolysin titration. Absorption and elution techniques. Indications and complications of blood transfusion. Red cell survival tests – Radioisotope and differential agglutination methods. Screening of donor blood for infective agents – HIV, HBV; Malaria, trypanosomes, syphilis etc. Anomalous results in blood grouping. False positive and negative results. Incompatibility testing. Preparation and standardization of AHG. Monoclonal and polyclonal antibodies. Infectious mononucleosis, Heterophile antibodies.

### **MLSB 508: SPECIALIZED BLOOD GROUP SEROLOGY TECHNIQUES**

**3 Credits**

**Biblical Principles:** For it is the life of all flesh, Its blood sustains its life. Leviticus 17:14a

Techniques for emergency compatibility testing. Low ionic sucrose solution, spin, Coomb’s, albumin, special compatibility techniques. Exchange and extracorporeal blood transfusion. Preparation of enzymes used in BGS. Forensic application of BGS. Two stage Coomb’s techniques. Automation in BGS-Groupmatics techniques. Autoanalysers for antibodies and antigen detection and identification, e.t.c.

### **MLSB 509: BLOOD GROUP SEROLOGY II**

**3 Credits**

**Biblical Principles:** “Only you shall not eat flesh with its life, that is, its blood”. Gen 9:4  
Leucocytes and platelet antigen /antibody. Auto-immunization. IgM, IgG, IgA antibodies. National blood transfusion service. Preparation of commercial quantities of polyclonal antisera; principles, uses and techniques of producing monoclonal and polyclonal antibodies. Type of blood substitutes and their preservation. Preparation of blood products. WHO standards in BGS. Red cell membrane structure in relation to blood group antigen locations.

**MLSB 510: HAEMOSTASIS**

**2 Credits**

**Biblical Principles:** For it is the life of all flesh. Its blood sustains its life. Leviticus 17:14a. Platelets-structure and physiology; Tests of platelet function. Normal and abnormal haemostasis – coagulation factors, inhibitors and amplifiers. Fibrinolysis. Bleeding disorders and their laboratory investigation. Control of anticoagulant therapy. Haemophilia states. Introduction to haemorrhology concept. Practical's on PT, PTTK and factor substitution tests.

**MLSB 515: HAEMATOLOGY II**

**3 Credits**

**Biblical Principles:** “I did not confer with flesh and blood” Gal. 1 :6  
Erythropoiesis and blood. Blood cell counts in health and diseases. Abnormal blood cell morphologies. Blood indices. Anaemia, mechanism and laboratory investigations, disorders of iron metabolism, vitamin B12 and folate deficiencies. Haemochromatosis and related storage disorders. The spleen and splenomegaly syndromes. Drugs, chemicals and the blood. Haemoglobinopathy, Haemoglobin genotype and phenotype. Blood in infancy, childhood and pregnancy. Heredity and blood disorders. Blood in microbial infections. Identification of blood parasites. Immunoheamatological disorders. Autoimmune diseases, haemolytic anaemia. Thrombocytopaenia and leucopenia. Leukaemias, systemic and disseminated lupus erythematosus, rheumatoid arthritis, etc. Myelomatosis and other paraprotein- anaemias. The immune system, HIV and AIDS. Bone marrow examination.

**CHEMICAL PATHOLOGY OPTION**

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

Biblical principles serve as a bedrock in the building of personal and professional life. The Bible, itself, is an excellent resource or manual for instruction in morality as well as in providing the ethical underpinnings for all disciplines. The educational process will flounder in the quicksand of humanistic philosophies if it is not anchored on the timeless, God-given guidelines as enshrined in the Holy Scriptures. Thus the course is designed to provide the students with the requisite spiritual and moral instructions and their interconnectedness with the students' chosen disciplines. While due emphasis will be given to the cognitive aspect of the instruction, the pragmatic nature of the course will be clearly demonstrated. Students will be made to understand that there are biblical principles they can employ in practically every discipline. For example, there are Biblical principles that apply to disciplines such as Banking and Finance, Political Science, Accounting, Public Health, Medical Laboratory, History and International Studies, computer Science, specific precepts and practices may be identified and drawn from the Bible as they apply to the disciplines. Students who take the course are expected to imbibe the positive

moral attributes of honesty, integrity, diligence, courage, humanity, excellence and apply them in their personal and professional lives.

**MLSP 504: DRUG MONITORING, TOXICOLOGY AND INBORN ERRORS OF METABOLISM 3 Credits**

**Biblical principles:** Appreciate God's care for humanity and His principle on healthy living through the recognition of the fact that our body is His temple must be emphasized. 1Cor 6:19

Introduction to assimilation, distribution, elimination and excretion of drugs. Practical and theoretical aspects of poisoning. Investigation of suspected cases of poisoning. Estimation of Blood alcohol. Salicylatesulphonamide, Cyanide, Oxygen, Carbon dioxide, and Ammonia.

Detection of Barbiturate, Cocaine, Heroin, Opium, Phenothiazine, Methaqualone etc in blood, urine, sweat, aspirates etc. Porphyrin; causes, symptoms and laboratory investigation of porphyrinaemia, porphyria and porphyrinuria. Haemoglobin, synthesis, function. Glycosylated hemoglobin. Abnormal haemoglobin, synthesis. Chemistry of haemoglobinopathies; SulpHb, COHb, MetHb. Definition, causes, consequences and investigation of some inborn errors of metabolism; Phenylketonuria, galactosemia fructose intolerance. Albinism, aminoaciduria.

**MLSP 506: CLINICAL AND REPRODUCTIVE ENDOCRINOLOGY 3 Credits**

**Biblical principles:** God's endowment of man with the ability to rightly diagnose diseases which are associated with hormonal imbalance must be emphasized. 2Chrn 16:12, Dan 1:4, Job 39:17.

Endocrine glands-organisation. Cellular communication by endocrine glands. Endocrine receptor binding. Control of endocrine action. Endocrine glands functions; The hypothalamus, The pituitary, The Parathyroid, Adrenal cortex, Adrenal medulla, the Gonads and Reproductive endocrinology. Feto-placental function. Endocrine control of metabolism and endocrine diseases/disorder; Insulin action. Thyroid hormone and reproduction. Investigation of hormone disorders including dynamic test. Investigation of male/ female infertility.

**MLSP 508: TECHNIQUES IN CLINICAL CHEMISTRY I 3 Credits**

**Biblical principles:** God's endowment of man with the ability to rightly diagnose disease conditions through the use of various diagnostic techniques must be emphasized. 2Chrn 16:12, Dan 1:4, Job 39:17.

Analytical Techniques. Birth of a new method, devising new techniques, Biological trials and conditions for acceptability. Solid/dry phase chemistry, dipstick technology, thin film technology. Immobilized enzymes. Analytical techniques employed in qualitative and quantitative determination of (1) Enzymes – Phosphatases, Transaminases, Dehydrogenases, Kinases (2) Hormones – Catecholamines and metabolites peptide and steroid hormones (3) Proteins – Total proteins, albumin and globulin, specific proteins (4) Lipids – cholesterol, Triglycerides, glycerol, fatty acids and lipoproteins. (5) Trace elements – Fe, Cu, Zn, Mg, Selenium (6) Non-protein nitrogen – Urea, creatine, creatinine, uric acids, amino acids and ammonia. Urinalysis; determination of urine specific gravity, osmolarity; qualitative tests for protein, glucose and reducing substances, Ketone bodies, bilirubin urobilinogen and blood.

Hemoglobin and hemoglobin derivatives in urine. Spectroscopy of hemoglobin and its derivatives in blood and urine. Astrup Techniques.

**MLSP 510:    TECHNIQUES IN CLINICAL CHEMISTRY II** **2 Credits**

**Biblical principles:** God's endowment of man with the ability to rightly diagnose disease conditions through the use of various diagnostic techniques must be emphasized. 2Chrn 16:12, Dan 1:4, Job 39:17.

Determination of blood glucose, glucose tolerance test. Determination of calcium and phosphate, uric acid, cholesterol, creatinine clearance, electrolyte and urea, total protein albumin and globulin. Plasma protein electrophoresis. Determination of plasma enzymes: aspartate transaminase, alanine transaminase, acid and alkaline phosphatase. Demonstration of Blood gases and pH by Astrup Technique. Paper and thin layer chromatography, Immuno-electrophoresis agar gel immunodiffusion techniques.

Demonstrating: Radioimmunoassay of hormones in blood. Estimation of 27-OXO and oxogenic steroids in urine. Estimation of urinary buffers. Calculation from first principle. Absorption and calibration curves. Color Equivalence of artificial standards. Fraction test meal. Calculi analysis.

**MLSP 515: CLINICAL ENZYMOLOGY 2 Credits**

**Biblical Principles:** Appreciate God's awesomeness through the coordination of various biological enzymes in the body fluid (Heb 1:3).

Mechanics of enzyme action and kinetics. Activation, repression phenomenon. Enzyme induction, inhibition, purification and specificity. Clinical Enzymology; Coenzymes and Isoenzymes in medicine. Diagnosis and importance of isoenzymes in Biotechnology.

**MLSP 525: CHEMICAL PATHOLOGY I (CARBOHYDRATES, PROTEINS AND LIPID METABOLISM) 3 Credits**

**Biblical principles:** The dynamic, complementary and interactive nature of the TRINITY must be demonstrated. Jhn 17:11, Luke 10:22, Jhn 8:19, 38. This can be adapted into discussing the interactive roles of these 3 major macromolecules in human metabolism. Explain the common disorders of carbohydrate and lipid metabolism with special emphasis on the adoption of temperance in order to prevent common disorders of carbohydrate and lipid metabolism. Prov 25:16, Gal 5:23.

Carbohydrate metabolism and disorder. Pathophysiology of diabetes mellitus. Diabetic ketoacidosis, Hyperosmolar non ketotic coma, lactic acidosis, Glycogen storage diseases. Insulinoma. Diagnostic criteria and laboratory investigation. Fasting Plasma glucose, random plasma glucose, glucose tolerance test, pancreatic hormones and Glycosylated hemoglobin. Lipids; lipoproteins and apolipoproteins: structure, composition and function, metabolism of lipoproteins. Lipid storage diseases. Cardiovascular function test. Recent advance in diagnosis of lipids disorders. Plasma proteins in health and diseases. Definition, cause and investigation of Paraprotein; Bence-Jones proteinuria and significance. Fractionalisation of proteins. Protein electrophoresis in health and diseases. Protein degradation. Metabolic disorders and regulation of amino acids metabolism.

**MLSP 519: NUTRITION AND CLINICAL VITAMINOLOGY 3 Credits**

**Biblical principles:** Demonstrate God's care for humanity through the provision of plants which are endowed with vitamins and essential trace elements (Gen 1:29). This is also seen when man

was created from the sand/dust (Gen 1:26) which has been reported to be greatly endowed with essential trace elements.

Vitamins; History and Biochemical functions. Chemistry and metabolic functions of water and fats soluble vitamins. Their deficiency state and physiological significance. Relationship with hormones. Vitamins in health and diseases. Methods of analysis.

Trace elements; distribution, biochemical function, metabolism, hormonal control and methods of analysis. Specific elements in health and diseases. Bone: diseases and investigations of bone disorders. Types, causes etc.

### **MLSP 527: CHEMICAL PATHOLOGY II**

**3 Credits**

**Biblical Principles:** God's purpose for our peculiar roles and talents for corporate good and use of the body of Christ must be emphasized. 1Cor 6:19.

Physiology of kidney, renal clearance and glomerular filtration rate. Renal plasma flow, maximal tubular excretory and reabsorptive capacity. Urea creatinine and Inulin clearance. Renal failure, azotaemia, ureamia, sodium loss in renal diseases. Aminoaciduria. Kidney diseases and kidney function test. Urinalysis in health and diseases. Features of hypernatraemia and hyponatraemia. Investigation of water and electrolyte imbalance. Homeostasis in clinical chemistry. Acid-base balance.

The liver anatomy and physiology-an overview. Biosynthesis of bilirubin, excretion of bile pigments. Jaundice-anatomical and physiological classification. Pigment excretion in jaundice. Liver diseases and liver functions test to include Congo red test for amyloids and faecal fat estimation.

Biochemistry of Neoplastic disorders. Diseases of nervous system. Basic neurochemistry, CSF-normal composition and changes in diseases. Diseases of Muscles.

### **POLICY STATEMENTS OF THE DEPARTMENT ON THE FIRST PROFESSIONAL EXAMINATION**

The department will conduct the First professional examination which is moderated by the MLSCN.

In order to accord the examination its rightful place, the following rules apply:

- (1) The students must pass all the 200 level and 300 level courses before the students can be allowed to sit for this examination. Failure to get minimum grade in any of the core courses will prevent the student from taking the examination.
- (2) The first professional examination is mainly a practical based examination in which students are assessed in the practical aspects of all the Medical Laboratory Science Courses (Medical Microbiology and Parasitology, Haematology Transfusion science and Blood Group Serology, Chemical Pathology and Histopathology) and oral/viva-voce examination.
- (3) The pass mark for this examination is 50% of the maximum marks available. The total mark scored by each student will be the sum of the theory, practical and oral/viva-voce examinations. However the pass mark for the practical is 50%.
- (4) This examination will be moderated by the MLSCN. The Council is expected to send a representative to the University.
- (5) The Chief Examiner will be the current Head of Department of MLS, School of Public and Allied Health, Babcock University, Ilisan-Remo, Ogun State.

- (6) It is important that this professional examination is adequately funded in order to prevent the Council withdrawing the Department's accreditation.
- (7) The Department needs to transmit the results of the examination via the Dean to the Faculty Academic Board for their information.
- (8) The result can be approved executively by the President /Vice-Chancellor of the University on behalf of the Senate through the Dean.  
The final results should be released within a week of the conduct of the examination.
- (9) Failure to pass this examination will result in the student not being able to write the 500 level Laboratory posting examination.
- (10) No resit is allowed. The student is expected to spend the next academic session to address the deficiency but may have repeat examination after six(6) months.

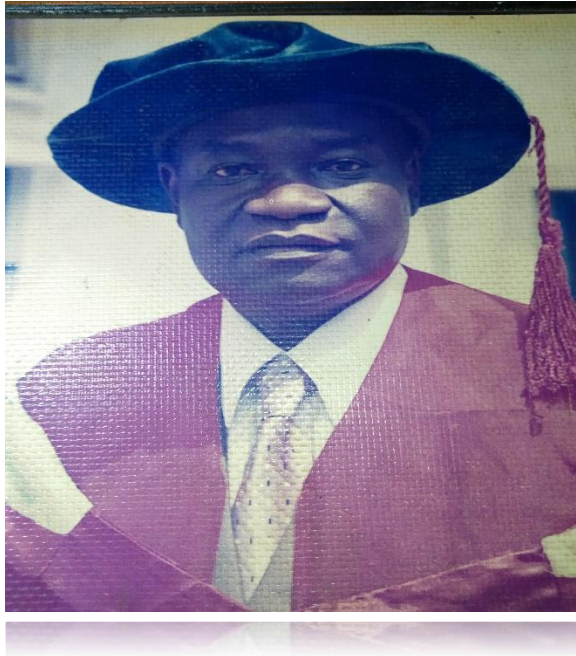
### **POLICY STATEMENT ON THE FINAL PROFESSIONAL EXAMINATION**

The department conducts the final professional examination in all disciplines under the MLSCN moderation. In order to accord the examination its rightful place, the following rules apply:

- (1) Failure in any of the courses from 100 to 500 levels is not allowed in this examination that will be held shortly after the second semester examination for 500 level students. It is a zero tolerance examination in terms of eligibility.
- (2) The final professional examination is mainly a practical based examination in which students are assessed in the final year discipline (Medical Microbiology, Parasitology, Haematology and Blood transfusion science, Chemical pathology, and Histopathology) of choice of the students.
- (3) It is expected that the Council will send an examiner for each of the disciplines the department has to offer.
- (4) The pass mark for this examination is 50% of the maximum marks available. The total mark scored by each student will be the sum of the theory, practical and oral/viva-voce examinations. However, the pass mark for the practical is 50%.
- (5) The Chief Examiner is the current Head of Department of Medical Laboratory Science, School of Public and Allied Health, Babcock University, with the assistance from the University's heads.
- (6) It is very important that this examination is adequately funded in order to prevent the Council withdrawing the department accreditation.
- (7) The Department needs to transmit the results of the examination via the Dean to the Faculty Board of Studies for their information.
- (8) The results can be approved executively by the President/Vice-Chancellor of the University on behalf of the Senate.
- (9) The final results should be released within a week of conducting the examination
- (10) Failure to pass this examination will result in the student not being able to graduate from the University irrespective of the grade the students must have scored in the University conducted examination.
- (11) No resit is allowed in Professional Examination. A student who failed this Examination, must repeat the laboratory posting for one whole academic session before he/she can be allowed to sit for the professional examination, at the next available opportunity.



## DEPARTMENT OF PUBLIC HEALTH



*Prof. Ademola M. AMOSU*  
*Head of Department*

### **ACADEMIC STAFF**

### **FULL TIME**

AMOSU A.M. [MBBS, MSc, PhD,  
FRSPH, FAIPH]

AKINBOYE D.O. [FMLSCN, FRHD,  
FEPHM, MSc., PhD]

\*\*ATULOMAH N. O. S. [BSc, PGDE,  
MPH, PhD, FRSPH, FAIPH]

^AJA G. N.D [BA, M.Comm.H, DrPH,  
CHES]

ADENIRAN A. E. [BSc, MSc, PhD]

OLANREWaju M. F. [NCE, BSc, MPH,  
DrPH]

AGBEDE C. O. [BSc., MPH, PhD]

OSHINAME F. O [B. Ed, MA, MPH, PhD]

Head of Department and Professor of Public  
Health Nutrition

Dean, School of Public and Allied Health  
and Professor of Medical Parasitology  
Professor of Health Promotion/Education

Professor of Health Promotion/Education &  
Community Health

Professor of Environmental Engineering  
Associate Professor of Preventive Health  
Care & Health Promotion/Education

Associate Professor of Public Health  
Associate Professor of Health  
Promotion/Education

OYERINDE O.O.[B.Ed, PGD, MPH, PhD]	Senior Lecturer, Health Promotion/Education
OLUGASA, B.O [DVM, MSc, PhD]	Senior Lecturer, Veterinary Epidemiology
PANUEL-EGWAKHE C. [B.Sc., MPH]	Lecturer II, Health Promotion/Education
*AKINTUNDE T. [BMLS, MPH]	Lecturer II, Occupational & Environmental Health
ASEKUN-OLARINMOYE I. [BSc.; MSc]	Lecturer II, Epidemiology
OLAOYE T [B.Sc, MPH]	Lecturer II, Reproductive Health
AJIKE S.O. [B.Sc, MPH]	Lecturer II, Maternal and Child Health
OGUNSANMI OLOLADE. O. [B.Sc, MPH]	Lecturer II, Reproductive Health/Biochemistry
DANGANA JONATHAN .M. [B.Sc, MPH]	Lecturer II, Public Health/Biochemistry
*AHAM-CHIABUOTU C. [RN, B.Sc, MPH]	Assistant Lecturer, Public Health/Biochemistry
AGBANYIM AUGUSTA [B.Sc, MPH]	Assistant Lecturer, Health Policy/System Management
OKONDU O. EMMANUEL [B.Sc, MPH]	Assistant Lecturer, Public Health
ODUYOYE OMOBOLA [B.Sc, MPH]	Assistant Lecturer, Epidemiology

#### **NON ACADEMIC STAFF**

POPOOLA, C.O. [OND, HND. PGD]	Environmental Health Officer
SAJOBI, T.T. [OND, SLT. BMLS]	Laboratory Scientist

#### **ADJUNCT STAFF<sup>^</sup>**

AKINSOLA H.A. PhD, M.Sc, B.Sc	Professor of Epidemiology, Environmental // Occupational Health)
OLANIRAN, Nurudeen S.(Sc.D)	Professor of Environmental Health
ORITOGUN, S.K. [BSc., MSc, MSc, PhD]	Lecturer II, Biostatistics

<sup>^</sup>On Leave of Absence

\*On Study Leave

\*\* On Sabbatical

## **INTRODUCTION**

The multiple and complex factors that affect the health and wellbeing of communities require a new generation of public health professionals to utilize the robust Public Health strategies to positively change individual health behaviors, motivate organizational/health system changes, initiate pragmatic health policy actions, as well as encourage robust socio-economic empowerment programs to improve health outcomes. With the recent refocus on Primary Health Care (PHC) as the key to reducing the global disease burden and improving the general health conditions of the people, particularly in developing countries, our public health programme provides students the opportunity to examine environmental issues, access to health care services, health policies, and social and contextual determinants of health and wellbeing.

## **History of the Department of Public Health**

Babcock University is the first University in Nigeria, indeed Africa, and perhaps globally to offer the first Bachelor of Science degree in Public Health. At inception, the Department of Nursing and Community Health was created to offer three major programmes: Bachelor of Science in Public Health, Bachelor of Nursing Science, and Bachelor of Medical Laboratory Science. The Bachelor of Laboratory Science was put on hold. Later, the Department became Department of Health Sciences. Today, it is a standalone Department in the School of Public and Allied Health offering one program: Bachelor of Science in Public Health (since 1999). The Public Health Program has FULL Accreditation from the National Universities Commission (NUC).

## **PHILOSOPHY**

Many Health Institutions exist for the sole purpose of promoting good health. The department of Public Health is unique in its approach of health promotion, established on the premise of a divine philosophy of health.

We believe that health began with Christ from the beginning. Health was given to man as a free gift. However, as soon as sin set in, man's health has continued to be threatened. Man therefore continues to strive to attain optimum health. A combination of the practice of sound health principles and belief in divine intervention promotes optimum health.

We seek to instill these principles in our own students and others through holistic health education to prepare them for the world now and for the future. We are committed to helping man attain a level of health whereby he is socially, mentally, physically and spiritually satisfied.

## **VISION STATEMENT**

The department's vision is to prevent diseases, promote good health and protect life of immediate, extended and world community.

## **MISSION STATEMENT**

Our Mission as Christian health professionals is *to promote and restore health and wholeness to all people through teaching, research and community service.*

## **GOALS AND OBJECTIVES**

Our goal is to reflect the overarching mission and goal of the Seventh-day Adventist Philosophy of education as upheld by Babcock University, which traditionally emphasizes the balanced and harmonious development of the whole man in his physical, social and spiritual environment, as specified in the Bulletin. These goal and objectives are expressed within the following domains: Intellectual, Occupational, Aesthetic, Physical, Social and Spiritual.

The specifics of the goals and objectives are clearly stated in the Babcock University Bulletin,. However, each program in the department will achieve the corporate goals of the Institution through its special perspective as a composite of the grand emphasis on ‘Health for All.

## **VALUES**

As we seek to develop high academic and professional competencies in our students, we also desire to integrate Christian values in preparing them as health care professionals, in harmony with our conviction of what Christian education should be, and to appreciate the meaning of the dignity, integrity, value and self-worth of mankind. Therefore, in developing professional skills in our students, we hold in high esteem the following values:

1. Magnanimity and Prudence;
2. Beneficence of God - who provides all resources in Love;
3. Honesty;
4. Equity - all are created equal and should be treated with due consideration;
5. Respect – for the beliefs, values and culture of others;
6. Dignity of labour - as it is appointed unto us to serve humanity;
7. Essence of true knowledge - all truth is God’s truth;
8. Integrity - matching faith with action;
9. Right attitude; and
10. Faith - man’s response to receive that which God provides for him.

## **DEPARTMENTAL PROGRAM\***

Bachelor of Science in Public Health (BSc Public Health)

\*It is an Honour Degree programs.

### **Bachelor of Science in Public Health (BSc. Public Health)**

#### **Specific Objectives;**

By the end of the academic programme leading to the award of Bachelor of Science (B.Sc) degree in Public Health, the graduate will be able to;

1. Function adequately with other members of the health team at local, state, national and international settings to increase the knowledge, skills and motivation necessary for individuals to assume greater responsibility for their health status;
2. Perform full community diagnosis using the indicators of health and participate actively in community mobilization processes;

3. Produce Information, Education and Communication (IEC) materials and implement client health education and information strategies in health facilities/clinics/hospital and community settings;
4. Participate in immunization exercises and perform nutrition assessment of infants, children of school age, adolescents and adults in the community using anthropometric measurements;
5. Monitor the environment for pollutants and ensure safety at work sites, identifying the main occupational hazards in the work place and in the community and initiate appropriate actions;
6. Plan and implement school health programmes for substance abuse reduction, sexuality including HIV/AIDS programmes and nutrition education;
7. Plan and develop survey strategies/methods for communicable disease control and disease surveillance;

### **ADMISSION REQUIREMENTS:**

Candidates seeking admission into the generic Public Health program must satisfy the minimum University requirements for admission to the degree program which includes at least credit-level passes at the senior secondary school certificate (SSCE) examination or its equivalent in five subjects, at not more than two sittings, which must include English Language, Biology or Health Science, Chemistry, Mathematics and any other subject. Candidates with Advanced Level Biology, Chemistry, Mathematics, or Registered Nurses, Community Health Officers, Environmental Health Officers or candidates with NCE (Physical/Health Education, Home Economics, Science Education, Nutrition) having at least merit pass level or OND in Biological Sciences may be admitted by direct entry into 200 Level, provided they satisfy other University admission requirements. Further, transfer candidates from other Universities would need approval from the University Registrar for such application to be effected.

### **EXTERNAL EXAMINATION SYSTEM**

During the final year of the Bachelor of Science in Public Health program, the students' final examinations and projects will be moderated by an external examiner nominated by the Department and ratified by Senate on the recommendation of the School of Public & Allied Health.

### **REQUIREMENTS FOR GRADUATION**

The Bachelor of Science degree program in Public Health (BSc PH) shall be for four-year duration for Joint Matriculation Examination Entry candidates and three years for direct entry candidates, with recommended waivers. A total of 189 Semester credits including student's major and general education courses are needed for graduation. These are distributed as follows:

<b>LEVEL</b>	<b>GENERAL EDUCATION COURSES</b>	<b>DEPARTMENTALCOURSES</b>	<b>NON- DEPARTMENT COURSES</b>	<b>TOT AL</b>
100	19	8	<b>19</b>	40
200	<b>17</b>	24	<b>10</b>	<b>55</b>
300	<b>7</b>	40	0	47
400	<b>7</b>	38	0	45
<b>TOTAL</b>	<b>50</b>	<b>110</b>	<b>29</b>	<b>189</b>

It is expected that within the 189 credits for graduation, every student graduating would have covered a minimum of 405 hours of concurrent field practicum during the semesters, research project and an internship period covering 300 hours during the summer preceding final year.

#### ASSOCIATE INSTITUTIONS

The following institutions provide logistic support for meeting special training needs and opportunities for field practicum of the Department of Public Health

1. Association of Reproductive and Family Health:
2. Lagos State University Teaching Hospital, Primary Health Care Unit, Lagos
3. Society for Family Health, Lagos
4. Ikenne Local Government Primary Health Care Department, Ogun State
5. Sagamu Local Government Primary Health Care Department, Ogun State
6. Primary Health Care and Disease Control Dept. of the Ogun State Ministry of Health, Abeokuta
7. Primary Health Care and Disease Control Dept. of the Lagos State Ministry of Health, Ikeja
8. Primary Health Care and Disease Control Dept. of the Oyo State Ministry of Health, Ibadan
9. Oyo State Solid Waste Management Board, Ibadan
10. Primary Health Care and Disease Control Dept. of the Ibadan North Local Government Area, Ibadan
11. Primary Health Care and Disease Control Dept. of the Osun State Ministry of Health, Osogbo
12. Department of Health Promotion Ministry of Health, FCT, Abuja
13. Action Health International, Yaba, Lagos
14. Wellbeing, FCT, Abuja
15. Leprosy Mission, FCT, Abuja
16. Pathfinder International, FCT, Abuja
17. St. John Ambulance, Lagos

**18. MOPHEMS Resources (Oil and Gas, Occupational Health and Safety Examinations), Lagos.**

**BACHELOR OF SCIENCE (B.Sc. Hons), PUBLIC HEALTH  
100 L LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION REQUIREMENTS</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian Peoples in a Global Culture	-	2
	<b>CORE COURSES</b>		
PHSC 103	Introduction to Public Health Practice	<b>3</b>	-
PHSC 108	Introduction to Sociology and Anthropology	-	2
PHSC 114	Introduction to Primary Health Care	-	3
PHSC 116	Health Anthropology	-	3
BIOL 101	General Biology	3	-
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
PHYS 101	General Physics I	3	-
MATH 101	General Mathematics I	3	-
	<b>TOTAL ( 43 Credits)</b>	<b>23</b>	<b>20</b>

**BACHELOR OF SCIENCE (B. Sc. Hons), PUBLIC HEALTH  
200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 200	Communication in French	2	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 260	Environmental and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 280	Leadership Skills	-	2
GEDS 222	History and Philosophy of Science	-	2
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
PHSC 204	Epidemiology I	-	3
PHSC 208	Psychological Foundations of Health Behavior and Change Process	-	3
PHSC 209	Public Health Microbiology, Parasitology and Entomology I	3	-
PHSC 210	Fieldwork I (Community Health Practicum I, 6 hours/week)	-	2
PHSC 212	Seminars in Public Health I	-	1
PHSC 213	**Global Health	3	-
PHSC 215	Introduction to Chemical Basis of Health	3	-
PHSC 218	Biostatistics and Informatics	-	3
ANAT 221, 224	Gross Anatomy I, II	3	3
PHGY 221, 222	General Principles of Physiology I, II	3	3
GCPY 220	Developmental Psychology	-	2
	<b>TOTAL (52 Credits)</b>	<b>26</b>	<b>26</b>

**\*\* GLOBAL HEALTH PROGRAMME**



**NOTE:** Global Health Field Trip to Port Health and Refugee Camps shall be for Three weeks, which will be organized a week after Second Semester Exams of the 100 Level.

**BACHELOR OF SCIENCE (B. Sc. Hons), PUBLIC HEALTH**

**300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	-	2
	<b>CORE COURSES</b>		
PHSC 301	Epidemiology II	3	-
PHSC 302	Introduction to Environmental Health	-	3
PHSC 304	Family Health and Human Reproductive Health	-	3
PHSC 305	Health Programme Planning and Evaluation	3	-
PHSC 309/324	Fieldwork II, III (Community Health Practicum II, III, 6 hours/week)	2	2
PHSC 311/326	Seminars in Public Health II, III	1	1
PHSC 313	Sexuality Issues and Substance Abuse in Adolescents	2	-
PHSC 316	Research Methodology	-	3
PHSC 317	**Community Mental Health	3	-
PHSC 318	Public Health Microbiology, Parasitology and Entomology II	-	3
PHSC 319	Principles of Health Promotion/ Education and Communication	3	-
PHSC 325	Public Health Nutrition	3	-
PHSC 330	School Health Education	-	3
PHSC 312	Occupational Health	-	2
	<b>TOTAL (47 Credits)</b>	<b>23</b>	<b>24</b>

**\*\* COMMUNITY MENTAL HEALTH PROGRAMME**

**NOTE:** Community Mental Health Field Trip to Neuro Psychiatric Hospital Aro, Abeokuta shall be for One week, which will be organized a week after Second Semester Exams of the 200 Level.

## **BACHELOR OF SCIENCE (B. Sc. Hons), PUBLIC HEALTH**

### **400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
PHSC 409	Fieldwork IV (Community Health Practicum IV, 9 hours/week)	3	-
PHSC 413	Public Health Training Methods and Instructional Design	3	-
PHSC 415	Health Policy and Management	3	-
PHSC 416	<b>**Internship</b>	-	12
PHSC 417	Seminar IV on Contemporary Issues in Public Health	3	-
PHSC 418	Seminar V on Contemporary Issues in Public Health	-	2
PHSC 421	Health Sociology	3	
PHSC 423	Public Health Aspects of Substance Use and Abuse	3	
PHSC 490	Research Project	S/U	6
	<b>TOTAL (45 Credits)</b>	<b>23</b>	<b>22</b>

### **\*\*THE INTERNSHIP PROGRAM**

**NOTE:** Internship shall be for Ten Weeks organized during the Summer Semester of the 300 Level. The students are required to sit and pass a comprehensive examination at the end of this attachment which should cover the Core Areas of the Internship Program. The Internship program carries a total of twelve (12) credit units. Scoring shall be as follows: Internship site supervisor's report (12.5%), Log Book report (12.5%), Oral presentation (25%), and Comprehensive examination (50%). The Comprehensive exam will be in two parts: Public

Health Sciences (Biostatistics, Epidemiology, Environmental Health and Public Health Nutrition) and Behavioral Sciences & Management (Psychological Foundations of Health Behavior and Change Process, School Health, Occupational Health, Health Program Planning and Health Systems management).

## **BACHELOR OF SCIENCE (B. Sc. Hons), PUBLIC HEALTH COURSE DESCRIPTIONS**

### **PHSC 103: INTRODUCTION TO PUBLIC HEALTH PRACTICE 3 Credits**

The course highlights issues of health in broad perspectives; ranging from various periods of recorded history, that is, from the antiquity to present times. The course begins with a biblico-historical perspective of public health and also discusses the development of the Adventist health system. Hence, the development and growth of public health from its inception are addressed. The various actors in the course of its development and the various roles played are highlighted. The course also, look at Public Health Practices which includes the following: definition, functions, roles of public health professionals, public health tools, and definition of public health terms.

### **PHSC 108: INTRODUCTION TO SOCIOLOGY AND ANTHROPOLOGY 1 Credit**

This course examines, describes and analyses the social structure of human society with intellectual freedom and responsibility. It explains the important roles of sociology, anthropology and other social sciences across the spectrum of disciplines. Areas of emphasis include social structure and institutions, problems of social organization describing issues about transparent relationships, and servant leadership in various cadres of society. It also describes the dynamics of population change and population collective behavior, social movement and ideology. The uses of sociology and anthropology are explained taken into consideration the Adventist heritage.

### **PHSC 114: INTRODUCTION TO PRIMARY HEALTH CARE 3 Credits**

This course examine the basic of health services to the development of the national primary health care system, highlighting challenges of health care with regards to issues of integrity, and lack of servant leadership and transparency giving rise to current conditions in the Nigerian health system. It also discusses community mobilization, participation and advocacy in the context of team work for building sustainable healthy communities.

### **PHSC 116: HEALTH ANTHROPOLOGY 3 Credits**

The course examines the relationships between health states and culture. The course also examines customs, and beliefs in relation to life styles, social interactions and developmental processes within groups, sub-groups and lineages, servant leadership and team spirit with intellectual freedom and Responsibility. The course further provides the student with a better understanding of the dynamics of ill-health from cultural perspectives with integrity and transparency. Lastly, the course reviews and explains relevant and appropriate behavioral models to clarify topical anthropological issues and situations taking into consideration Adventist Heritage.

**BIOL 101: GENERAL BIOLOGY I****3 Credits**

This course in basics of biology designed for Health Science students is intended to help students harmonize concepts previously learnt from secondary school with integrity. It should provide general introduction to the diversity of organisms and their characteristics for excellence.

**CHEM 101/102: GENERAL CHEMISTRY I, II****3 Credits**

These Courses are as presented in the University Bulletin and taught in the Department of Biosciences and Biotechnology (3 Units per semester).

**PHYS 101: GENERAL PHYSICS I****3 Credits**

This Course is as presented in the university Bulletin and taught in the Department of Biosciences and Biotechnology (3 units per semester).

**MATH 101: GENERAL MATHEMATICS I****3 Credits**

This Course is as presented in the University Bulletin and taught in the Department of Mathematics.

**PHSC 213: GLOBAL HEALTH****3Credits**

This course highlights the historical perspectives of international health, including policies governing international health collaboration and coordination. Issues relating to health and development at the global level are emphasized. Themes on leadership, excellence and responsibility in addressing global issues are discussed through the length of study. Various agencies involved and activities of these bodies are also highlighted. Special attention is devoted to the activities of the United Nations Agencies, particularly W.H.O, UNICEF, UNDP, UNFPA and Bilateral agencies such as ODA, USAID, and the World Bank; amongst others.

**PHSC 204: EPIDEMIOLOGY I****3 Credits**

This is an introductory course designed to acquaint the student with the basic principles of epidemiology. It is intended for the undergraduates in the medical, nursing, public health, medical laboratory sciences and other health-related programs. Attention is focused on the historical context and developments, definition of terms and concepts, scope, uses, concepts of disease causation, measures of disease frequency, levels of prevention, types and methods of epidemiological investigations. Infectious disease epidemiology will be taught to illustrate principles. Integrating Faith with learning, Christian principles/ethics such as Excellence, Integrity, transparency, Team Spirit, Servant Leadership, Intellectual Freedom and Responsibility and the Adventist Heritage, will be infused into each class period to inculcate in the students, a higher sense of purpose, effectively re-orienting them by the end of the semester. Students for demonstration and illustration use available medical information and statistics as laboratory materials. The approach is to provide opportunity for students to become acquainted with the basic principles of epidemiology, which are important tools in Public Health Sciences.

**PHSC 215: INTRODUCTION TO CHEMICAL BASIS OF HEALTH****3 Credits**

The course will introduce the students of Public Health to biochemical basis of health and disease reviewing the chemical structures and cellular functions of biological molecules. Such biological molecules which are constituents of the basic units of living organisms are phospholipids, proteins, carbohydrates, enzymes, cofactors and nucleic acids. The course will highlight levels of order and cooperation in the living cells and thus enabling the students to learn and internalize team spirit and servant leadership. Emphasis will further be placed on bioenergetics, basic enzymology, reactions of sugar, glycolysis, the tricarboxylic acid cycle, oxidative phosphorylation which should provide basic understanding of how biological molecules participate in energy production in the mammalian cell. This understanding will provide media through which students can exhibit intellectual freedom and responsibility to their own health. The course will also review the biochemical basis of drug metabolism and toxicology. The approach enables the student to appreciate the biochemical basis of pathology, environmental health and industrial/occupational applications and develop attitudes that gears team spirit as they build their careers.

**PHSC 208: PSYCHOLOGICAL FOUNDATIONS OF HEALTH BEHAVIOR AND CHANGE PROCESS 3 Credits**

The course provides opportunity for students to examine the role of human behavior at individual, group and community levels, taking into consideration integrity, servant leadership and acquaints them with the types of changes occurring over-time. It focuses also on the theories of individual behavior and highlights the relationships between the various psychological variables, which form the basis of personality on which lifestyles and health practices are hinged. A brief study of physiological basis of behavior would feature to show the relationship between issues such as neuro-physiology and learning process in the dynamics of behavior. Specific health behavior models are presented to illustrate issues and situations to clarify specific psychological/behavioral actions coupled with intellectual freedom and responsibility. Specific examples are cited to illustrate the dynamics of change processes and psychological behavior. Behavioral models-based intervention strategies are used during laboratory sessions to highlight transparency and concepts relevant to different groups. Student will demonstrate team spirit in community practicum for excellence.

**PHSC 209: PUBLIC HEALTH MICROBIOLOGY, PARASITOLOGY AND ENTOMOLOGY I 3 Credits**

The course covers vital principles of Microbiology and Parasitology in Public Health and would cover pertinent history and development of Microbiology and Parasitology as they relate to public health. The principles of transmission of diseases by vectors will also be studied. The study would also cover general characteristics, reproduction and identification of microorganisms and parasites, particularly different species of bacteria and parasites that have relevance in public health. A brief study would be made on the systematic classification of microorganisms and parasites. A study of pathogenicity of microorganisms and parasites would be made. The students will be introduced to various laboratory techniques, working with integrity and team spirit, handling of microscopes and laboratory ethics with intellectual freedom and responsibility. Laboratory exercises will be used extensively to learn the principles and techniques of identification of appropriate organisms.

**PHSC 210: FIELDWORK I (COMMUNITY HEALTH PRACTICUM I - SIX HOURS/WEEK) 2 Credits**

Students at this level will conduct community diagnosis taking into consideration integrity, servant leadership as to be oriented towards PHC approach in the delivery of health care and to inculcate in each student team spirit approach towards the promotion of community health, and for the individual students to develop accountability, autonomy and responsibility including inquisitive style of learning so as to portray the Adventist heritage. The students are involved in the following processes: obtaining a detailed map of the community, taking a close inventory of the socio-cultural, physical/chemical and biological environments; using a structured- type data collection instrument to identify specific landmarks and the institutions in the community, Student groups are assigned field sites where they spend some time under staff supervision. In the field, students are involved in community diagnosis (mentioned in the above paragraph), applying the principles of community development, social planning and social action consistent with emphasis on primary health care and Adventist heritage. The students are to analyze the data collected with transparency, have them analyzed and presented with excellence. [This translates to 90 Hours].

**ANAT 221: GROSS ANATOMY I 3 Credits**

The course considers Gross and Functional Anatomy of the Upper limbs; Thorax; Abdomen; Pelvis and Perineum. Biblical Principle- the body is a whole, but has parts that work together [1 Corinthians 12:12; Romans 12:4]. General overview of Osteology; Axilla and its contents; Breast; Shoulder region; Upper arm; cubital fossa; Forearm and hand; Joints of Upper Limb; Thoracic walls; Mediastinum; Pericardium and Heart; Pleura and Lungs; Emphasis is laid on the functional and applied aspects. Abdominal wall and external hernias; external genital organs; peritoneum; Gastrointestinal tract and the associated glands; Diaphragm; Pelvis and perineum.

**ANAT 224: GROSS ANATOMY II 3 Credits**

Breath is necessary for life [Genesis 2:7] and activities [Psalm 150:6]; the sustenance of life in the blood [Leviticus 17:11-14]; and the womb conceives [Jeremiah 1:5; Luke 1:3] as designed by God.

General overview of the osteology of lower limbs and the skull; Front and medial side of thigh; Gluteal region; Back of thigh and popliteal fossa; Leg and foot; Joints of lower limb; Arches of foot. Meninges, Scalp, temple and face; salivary glands; thyroid, parathyroid and thymus. Deep structures of the neck; Infratemporal fossa; mouth; pharynx and larynx; ear, eye. Nasal cavity; Paranasal air sinuses; Neuroanatomy; Nerve cells, spinal cord and the brain.

**GCPY 220: DEVELOPMENTAL PSYCHOLOGY 2 Credits**

This Course is as presented in the University Bulletin and taught in the Department of Education.

**PHGY 221 GENERAL PRINCIPLES OF PHYSIOLOGY I 3 Credits**

Understanding of normal functioning of the human system. Maintain equilibrium between internal and external environments, review of cell and its properties including cell division, functioning of the digestive system, mechanism of defecation, blood and the cardiovascular

system, body fluid mechanism, the respiratory and gas transport system breathing mechanism and control of respiration. Psalm 139:14 confirms the creative power of God on mankind of which the Psalmist admitted that mankind is wonderfully made.

### **PHSC 212: SEMINARS IN PUBLIC HEALTH I**

**1 Credit**

The students will present as a team and intellectually discuss specific topics with a personal sense of responsibility relating to their field experiences, in a class setting. Problems and difficulties are transparently highlighted and excellent solutions proffered. Additionally, students are encouraged to participate actively, with integrity, in all activities.

### **PHSC 218: BIostatISTICS AND Informatics**

**3 Credits**

The course is planned to equip students with the necessary tools and skills for collecting, analyzing and interpreting data quantitatively in such a way that demonstrate integrity and transparency. Topics to be covered include: the central role of statistics in health sciences disciplines, data description, elements of probability, description of random variables, applications of the binomial and normal distributions, estimation and confidence intervals, Chi-Square test, correlation, regression and variance analysis, study design and hypothesis testing. For practical purposes, students are provided with specific data to work as a team to produce results that reflect intellectual freedom and responsibility in developing simple questionnaire protocols for analysis.

### **PHSC 301: EPIDEMIOLOGY II**

**3 Credits**

The course is an extension and continuation of (PHSC 204); Principles of Epidemiology. The course focuses on the essential activities needed to carry out data collection and processing. Materials discussed will include: a review of epidemiological perspectives, routine epidemiological methods in relation to characteristics of the population, national health information systems management methods (the national diseases notification systems), health systems research methods, special epidemiological investigations and logistics, data collection, recording, analyzing, presenting, communicating and forwarding processes. Students are expected to propose an appropriate epidemiological problem; identify a population; choose a method and design for sampling from the population; choose and propose records for ascertainment and classification of diseases and risk factors; outline a plan of action for data collection and presentation. Students are expected to participate actively in fieldwork assignments and to submit reports taking into consideration servant leadership and team spirit with intellectual freedom and Responsibility. Both communicable and non-communicable morbidity and mortality patterns and trends in Nigeria and elsewhere are highlighted for excellence. **Prerequisite: PHSC 204, PHSC 218**

### **PHSC 302: INTRODUCTION TO ENVIRONMENTAL HEALTH 3 Credits**

The course is designed for the undergraduates in public health and others in the health sciences programs. It highlights the three cardinal areas of the environment: the biological, physical/chemical and the socio-cultural environments, with emphasis on the Adventist philosophy of health—our responsibility to our environment. Specific areas to be highlighted include: the rural and urban environments in relation to housing and health; water sources and supplies; sewage and refuse disposal systems; air, water and soil pollution; food hygiene and

safety; and environmental degradation. Visits would be made to specific sites to observe the needs for transparency and integrity as well as personal and social responsibility which if lacking, can lead to existing conditions with regards to water sources, air pollution, food sanitation and liquid/solid wastes disposal in general. The student will conduct a number of laboratory analysis on samples collected from the environment and be guided on how to freely and excellently present their reports.

**PHSC 304: FAMILY HEALTH AND HUMAN REPRODUCTIVE HEALTH      3 Credits**

The course explores the meaning and significance of family health in the context of primary health care (P.H.C). A review of the various social structures of the family provides the student with understanding of the types of family structures they may likely encounter during practice. Knowledge relating to organization of family health services, integrity, autonomy and responsibilities are covered. Special areas of emphasis include contemporary issues on gender preference, genital mutilation, human sexuality; reproductive health and population dynamics are also featured. Students are expected to exhibit transparency, team spirit and excellence in community – clinic sessions.

**PHSC 305: HEALTH PROGRAMME PLANNING AND EVALUATION      3 Credits**

The course is intended to prepare public health students to organize health programs that meet specific and identified community needs taking into consideration servant leadership, team spirit with intellectual freedom and Responsibility. The course also highlights the critical issues and logical questions in health planning, the main functions of managements, the implementation function, the supports systems to implements health care programs, the evaluation and format with integrity and transparency. Skills include setting goals and objectives, selecting strategies, assessing and mobilizing internal and external resources for implementing and evaluating results for excellence.

**PHSC 309/324      FIELD WORK II, III (COMMUNITY HEALTH PRACTICUM II, III - SIX HOURS/WEEK)      2 Credits**

The Field-Work at this level is an extension of (PHSC 210), Community Health Care Practicum I. The students at this stage utilize structured household questionnaires to collect information on health of families in the community. Structured questionnaires are patterned after those of the primary health care system. The information collected by each of the student groups working with integrity and team spirit are recorded, analyzed and submitted as a report of the Field-Work activities with transparency. The practice gives the students an opportunity to translate theoretical concepts and principles in public health into practical experiences needed for program formulation, planning and implementation [180 Hours] for excellence.

**PHSC 311/326:      SEMINARS IN PUBLIC HEALTH II, III      1, 1 Credit**



Each Semester, the students are required to prepare weekly reports of the field activities with integrity, transparency and periodically present written reports as case- studies at seminars under the supervision of the Faculty/Staff (2 units per semester).

**PHSC 312: OCCUPATIONAL HEALTH 2 Credits**

The course gives an overview of the history of occupational health in Nigeria and elsewhere. Attention is focused on selected and safety needs of various target organs and systems affected by specific areas relating to health hazards from new environmental pollutants, early detection of impairment in occupational exposure to health promotion for working measurement and monitoring, keeping health records, and health promotion from working populations. Various legislations concerning safety measures for the workers and the work environments are reviewed. Visits are made to the various industrial setting and other places of interest to identify specific problems. Students are expected to documents observations with integrity, accountability and presents reports with excellence. Analysis of factors that may pose hazards to human health at the work environment such as noise levels, lighting levels, chemical and radiation exposures are done using Adventist heritage.

**PHSC 313: SEXUALITY ISSUES AND SUBSTANCE ABUSE IN AOLLESCENTS2 Credits**

This course is an overview of adolescent development. It takes a closer look at issues of sexuality and substance abuse and their impact on adolescent functioning. It exposes the student to the theoretical framework for understanding adolescent behaviour, concepts of self and sexual identity with intellectual freedom and responsibility. This course examines the development of chemical dependency and current trends in adolescent substance abuse in relation to Adventist Health. This course will examine contemporary health education strategies for addressing adolescent issues with transparency, integrity and servant leadership. The student will interact with bodies of knowledge as well as have hands-on learning experiences with adolescents in the immediate environment. The course will also cover current issues on HIV/AIDS for excellence.

**PHSC 316: RESEARCH METHODOLOGY 3 Credits**

The course is designed to introduce the undergraduate to the elements of qualitative and quantitative research design and principles. The course takes the student into the basic characteristics of research taking into consideration transparency and integrity. The focus is on knowledge and skills in planning and conducting Public Health research including behavioral, epidemiological and health systems studies. The areas of coverage include: issues in health and social sciences research, types of research methods; Health Systems (Operations) Research, project formulation and proposal writing, study design methods of data collection, processing and analyses, and dissemination of findings and utilization of results. In addition, skills for designing survey instruments, setting research objectives and interpreting results obtained in research with integrity will be discussed. Research/project proposal writing skills will be highlighted.

**PHSC 317: COMMUNITY MENTAL HEALTH 3 Credits**

The course provides the students with an opportunity to be acquainted with psychopathological basis of mental illness and classifications of mental disorders with

excellence. The objectives of a mental health program such as promotion of mental health, prevention of mental disorders and provision of mental health care with integrity and accountability are highlighted. Emphasis are placed on the changing concepts of mental health care, traditional systems of care for the mentally ill, facilities available for mental health care in Nigeria, and the roles of the Federal, State and the Local governments in the provision of mental health care facilities. A working knowledge of the elements of programs and the legal aspects of community mental health are important to public health and other health professionals. Principles of mental health and hygiene, the effect of the mind on personal health and the roles of psychosocial and environmentally-induced conditions in the etiology of illness will be discussed. A major focus is on developing methods and intervention programs with team spirit and servant leadership for effective promotion of mental health, including stress. This course provides the students with the opportunity of visiting the Neuropsychiatric hospital in the environ, portraying high level of responsibilities and Adventist heritage.

### **PHSC 318: PUBLIC HEALTH MICROBIOLOGY, PARASITOLOGY AND ENTOMOLOGY II**

**3 Credits**

The course would emphasize the importance of Microbiology and Parasitology and Entomology in Public Health and would cover the study of the characteristics and identification of microorganisms and parasites that cause public health problems. Entomology of medical importance will be studied. Emphasis will be placed on the specific microbial and parasitic agents of communicable and parasitic diseases which are prevalent in the community. Class activities would include entomology relevant to Public Health. Environmental factors favoring their reservoir, spread and communicability as well as salient features for their control will be highlighted. Current issues regarding the control, intervention, and prevention strategies of these infections and infestations will be discussed. Basic issues regarding the immune system and pathogenic microorganisms and parasites of relevance to public health would be discussed in great details to include immunization. Additional emphasis will be placed on collection of samples for microbial and parasitic examination of water and water quality standards, sewage treatment methods and the implications in Microbiology and Parasitology as they work with team spirit and servant leadership. Identification of microbial and parasitic pollutants and contaminants in food and water sources will be studied. Laboratory exercises will be used extensively to identify various organisms. Visits will be made to water treatment sites, food storage, food handling and preparation points, to identify possible sources of contaminants thereby providing the basis for personal and community health stance for excellence. **Prerequisite: PHSC 204, PHSC 209 & PHSC 301.**

### **PHSC 319: PRINCIPLES OF HEALTH PROMOTION/ EDUCATION AND COMMUNICATION**

**3 Credits**

This course introduces the students to the principles of health information, education, communication (IEC) concepts, and examines the relevance of these concepts to health education processes. It also highlights the principles of counseling with integrity and transparency on the various issues under consideration. The course will review various communication theories and models of mass communication. Theories of adoption of innovation are also considered. The students through team spirit and servant leadership will

critically assess various communication and counseling strategies with intellectual freedom and responsibility in planning and evaluating communication aspect of health programs.

**PHSC 325: PUBLIC HEALTH NUTRITION 3 Credits**

The course deals with nutrition issues. The topics presented are developed within the framework of specific age groups taking into consideration biblical perspectives. Areas covered include identification of community nutritional problems, needs, and resources available, integrity, servant leadership, transparency and Adventist heritage. Also emphasis will be directed on planning and administration of programs and services, evaluation of program effects and developments of skills in the areas of nutrition, education, and communication for excellence. Attention will also be focused on national nutrition goals. Skills will be directed at community nutrition surveys in children 0 – 5 years and school children up to the age of 18 years. National nutrition policy, government work plans will be reviewed to assess the dietary patterns in the community. Special diets in health and during illness are discussed. Conduct comprehensive laboratory-based nutritional analysis. Students are expected to participate actively in community and institutional nutritional surveys using the structured questionnaire prepared by staff and students with intellectual freedom and responsibility.

**PHSC 330: SCHOOL HEALTH EDUCATION 3 Credits**

Major elements of School Health program are reviewed, including needs assessment, problem diagnosis, integrity, transparency and servant leadership etc. The health education component of school curriculum is examined carefully to identify its importance in school environment for excellence. The specific areas to be addressed include: immunization needs of the school child, growth and feeding, personal hygiene, school sanitation, Adventist school health education, modalities for developing working relationship with child and mother, communication techniques and steps in establishing relationships and factors influencing growth and development. The students are expected to visit various schools to observe conditions existing there and to write and present reports with team spirit for excellence.

**PHSC 413: PUBLIC HEALTH TRAINING METHODS AND INSTRUCTIONAL DESIGN 3 Credits**

The course focuses attention on the modalities used in training, through the approaches of the instructional design methodology. The students are exposed to different aspects of educational methods, including approaches in curriculum planning and designing with integrity. The emphasis is in training of health workers in terms of assessments of training needs, training logistics, instructional materials designing, team spirit, transparency and servant leadership. The course highlights the different components of training, identification of agencies requiring the services of the trainers, identification of the operational processes involved in training of the different cadres of health workers, formulation of instructional objectives, identification of equipment used for teaching and demonstration, presentation, methods of teaching assessments and evaluation and developing plans for different tasks and activities. Also students are introduced to communication principles and concepts; various communication theories, models of mass communication. Theories of adoption of innovation would also be considered. The

course considers a variety of simple audiovisual methods of communication, discussing their relevance and appropriateness in health information dissemination within the context of culture and technology. Production of media materials is encouraged for excellence. **Pre-requisite: PHSC 305.**

**PHSC 409: FIELD WORK IV (COMMUNITY HEALTH PRACTICUM IV,  
9 HOURS/WEEK) 3Credits**

This is an extension of the Community Health Practicum (PHSC 306/309). It gives the students the opportunity to participate in on-going intervention programs and activities at the local government, the community and health facilities levels with team spirit. The students are to produce reports on health systems research based on their experiences at different levels of activities [135 Hours] with integrity and transparency.

**PHSC 415: HEALTH POLICY AND MANAGEMENT 3 Credits**

The course is designed to acquaint Students in the discipline of health sciences with management information with transparency, integrity and skills in matters relating to all aspects of the national health care systems, (the primary health care, the secondary health care and the tertiary health care systems). The course gives an overview of the national health policy and the development of the national health systems. The roles of governments at each of the levels and those of the NGOs are highlighted. Modern concepts and elements of management by objectives are reviewed in the context of health planning, implementation and health programme monitoring and evaluation, with intellectual freedom and responsibility. Modalities for leading health team and organizing health care activities with team spirit are as well highlighted. Methods and means of managing human and material resources are also covered. The course covers also various aspects of selected international health care system for excellence.

**Pre-requisite: PHSC 213.**

**PHSC 416: INTERNSHIP 12 Credits**

A compulsory supervised Field Internship is an integral part of the program, which takes place towards the end of the program and should last a period of 10 weeks in which periodic reports are expected to be submitted by the student. The students are distributed into groups with emphasis on transparency, team spirit, servant leadership, and integrity as they are rotated through the Local Government Primary Health Care departments and the State Ministry of health as well as through an NGO involved in health care delivery [300 Hours] for excellence. Associate institutions that currently provide support to the Department are listed on page 6.

**PHSC 417: SEMINARS (IV) ON CONTEMPORARY ISSUES IN PUBLIC HEALTH  
3 Credits**

The students would have the opportunity of becoming acquainted with current and emerging global issues of public health importance and be able to share these knowledge with colleagues as they develop skills such as team spirit, transparency, integrity and servant

leadership in preparing briefs for presentation. Particular emphasis will be given to the priority health problems such as malaria, polio, HIV/AIDS, tuberculosis/leprosy, cerebrospinal meningitis, maternal mortality and infant mortality. In addition, the opportunities and challenges posed by information technology to contemporary health care workers in a constantly changing global community will be explored.

#### **PHSC 418: SEMINAR V ON CONTEMPORARY ISSUES IN PUBLIC HEALTH**

**3 Credits**

This course will focus on current research and practice topics related to:

- Public Health Information, Education and Communication
- Epidemiology, Disease Control and Surveillance
- Environmental Health/Occupational Health and Safety
- Public Health Nutrition
- Health Policy, Management and Administration
- Family and Reproductive Health

Note: Contemporary issues in Public Health should arise from each of the subspecialty areas indicated above. Project proposal writing skills in these areas will be emphasized with integrity and transparency for excellence.

#### **PHSC 421: HEALTH SOCIOLOGY      3 Credits**

This course reviews the social issues in health with particular reference to welfare services, care of motherless babies, care and rehabilitation of the handicapped, care of the elderly and the care of destitute/beggars, with emphasis on servant leadership, transparency, team spirit and intellectual freedom and responsibility. The course also focuses on specific problems areas such as natural and man-made emergency situations, disasters and refuge problems. The course provides an opportunity for students to become acquainted with what happens in such situations.

#### **PHSC 423: PUBLIC HEALTH ASPECTS OF SUBSTANCE USE AND ABUSE    3 Credits**

The course is designed to provide students with an understanding of the sources of drugs, classification and composition of drugs, herbal medicines; use and abuse of drugs; use and abuse of alcoholic beverages; action and reaction of drugs and alcoholic beverages (prophylactic, therapeutic, and toxicological effects) legal control of drugs and alcoholic beverages; the concept, principles and list of essential drugs with integrity, transparency; physical, physiological, and other public health aspects of drugs and alcoholic beverage use and abuse intellectual freedom and responsibility for excellence.

#### **PHSC 490:                      RESEARCH PROJECT                      6 Credits**

Each student is expected to responsibly identify an area of research interest and develop an excellent research proposal that would enable him/her to conduct a study under the supervision of a Departmental/Faculty Staff in a transparent manner and with integrity, keeping the Adventist Heritage in mind. This project is for two semesters.

#### **PROFESSIONAL CERTIFICATION**

In addition to the B.Sc. Program, the Department may provide professional certification programs for students, from bodies such as the Environmental Health Registration Council of Nigeria (EHORCON), Community Health Officers Practitioners Board and the National Board for Technical Education (NBTE) in the areas of Environmental Health and Community Health. Others include St. John Ambulance certification in First Aid and Cardiopulmonary Resuscitation (CPR), Lifestyle centers, etc.

#### **SCHOOL OF SCIENCE AND TECHNOLOGY**



**Prof. Cyril C. NWANGBURUKA**  
*DEAN*



NDIEN, Justina Abolanle  
*School Officer*

### **PHILOSOPHY**

The School is determined to balance theory with practicals in solving human and environmental problems. With a firm and strong foundation, the students will express the full capacity to display talents and skills that see humanity as the target all to the glory of God

### **VISION STATEMENT**

Applying scientific research and knowledge, on the platform of Christ, for the benefit of mankind.

### **MISSION STATEMENT**

The mission of the School of Science and Technology is to equip students with the necessary ingredients of disciplines character, and that will make them whole leaders in dignity and humanity. With in-depth analytic temper, they will be productive and acceptable to the society while being Christ centred.

### **OBJECTIVES**

- i) The students will be equipped adequately for the challenges in the medical, agricultural and industrial facets of life.
- ii) The students will be able to apply Biblical facts to scientific reason; while wholly imbibing the principles and application of faith and learning as espoused by the Seventh Day Adventist Church.

### **ADMISSION REQUIREMENTS**

Candidates wishing to come for any of the programmes must possess 5 credits at the Ordinary level – WASCE/NECO, including English Language, Mathematics and any other 3 relevant subjects Biology, Chemistry, Physics & Agricultural Science.

In addition, the respective departments stipulate the admission requirement for both the 3- year and 4- year programmes.

## **DEPARTMENTS**

**Agriculture and Industrial Technology**

**Basic Sciences**

**Microbiology**

## **DURATION OF PROGRAMMES**

All the undergraduate programmes run for 4 academic sessions full time for Direct Entry students 3 academic sessions are applicable.

## **GRADUATION REQUIREMENTS**

As stated in the respective departments.

## **DEPARTMENT OF AGRICULTURE AND INDUSTRIAL TECHNOLOGY**



***Kehinde O. OYEKALE, PhD***  
***Head of Department***

## **ACADEMIC STAFF**

Cyril C. NWANGBURUKA, PhD	-	Professor of Plant Breeding & Genetics
Grace Oluwatoyin TAYO, PhD	-	Professor of Animal Nutrition
David. Shola DARAMOLA, PhD	-	Professor of Soil Science



Abdur-Rahman O. ABDULLAH	-	Professor of Animal Breeding & Biostatistics
Grace O. ALUFOHAI PhD	-	Professor of Agricultural Economics
Kehinde O. OYEKALE, PhD	-	Associate Professor, Seed Science & Technology
Akinola D. BABALOLA, Ph.D.	-	Senior Lecturer, Resource Economics & Project Mgt.

#### Appraisal

Martha Dupe OLUMIDE, PhD	-	Senior Lecturer, Animal Nutrition
Gibson O. CHIOMA, MSc	-	Senior Lecturer, Animal Nutrition, Fisheries & Agricultural Extension
Olubunmi BALOGUN, PhD	-	Lecturer I, Farm Management and Accounting
Ayodeji. O. OLARINMOYE, M.P.V.M.,Mph	-	Lecturer I, Vet. Medicine
Olubukola OSUNTADE, PhD.	-	Lecturer I, Agricultural Extension
Olufunso AKINBOYE, PhD	-	Lecturer II, Crop Production
Bolatito SHOBO, PhD	-	Lecturer II, Horticulture
Lois C. NDUBUISI-OGBONNA	-	Lecturer II, Animal Science
Taofeek A BELLO, MSc	-	Lecturer II, Agricultural Economics
Osagie J. AFODU, MSc	-	Lecturer II, Agricultural Economics

#### ADJUNCT STAFF

Carolyn A. AFOLAMI, PhD	-	Professor of Agricultural Economics
Yetunde, O. MAKINDE, PhD	-	Professor of Nutrition and Educational Sciences
Adebayo BALOGUN, MSc	-	Assistant Lecturer, Agricultural Engineering

#### TECHNICAL STAFF

Funmilayo ABIOYE	-	Secretary (Diploma in Secretarial Administration)
Olaoluwa, FILADE, MSc	-	Farm Manager (Crop Production)
Samuel E. AYENI, BSc. Food Sci	-	Chief Lab. Technologist (Chemistry & Biochem)
Amarachi, G. NWOKOCHA, MSc	-	Snr. Lab Technologists (Soil Science)

#### VISION STATEMENT

Producing graduates of agriculture equipped with a holistic and functional knowledge, transforming the society for positive change and service to God.

#### MISSION STATEMENT

The mission of the department is to provide a broad based, functional and practical training in Agriculture bearing in mind the physical, mental and spiritual development of man that is characteristic of the Adventist education. The program is also designed to meet the needs of the immediate environment and agricultural sustainability. Such needs include boosting and improving crop and animal production in a sustainable manner by developing requisite capacity in agriculture. Towards this end the Department offers courses at undergraduate and postgraduate levels in combined and special honor standards, in the following areas:

1. Agricultural Economics
2. Agriculture Extension
3. Agronomy and Landscape

4. Animal Science
5. Agro- Forestry(PG)
6. Soil Science(PG)
7. Plant Breeding(PG)
8. Horticulture(PG)
9. Animal Biochemistry and Nutrition (PG)
10. Animal Breeding and Genetics(PG)
11. Animal Nutrition(PG)
12. Animal Physiology and Reproduction(PG)
13. Ruminant Animal Management and Production(PG)
14. Monogastric Animal Management and Production(PG)
15. Animal Products (PG)
16. Agricultural Economics (PG)

## **OBJECTIVES**

Graduates of Bachelor of Agriculture program are expected to be able to:

- a) Take up employment in any agriculture related area
- b) Establish and operate their own agribusiness making them great agropreneurs providing employment and build capacity in agriculture industry.
- c) Engage in production and research that will provide solutions to Nigeria's agricultural problems.
- d) Practice environment friendly activities as they utilize modern and technological principles in their agricultural career.

## **PHILOSOPHY**

The practice of Agriculture is as old as the creation, when God entrusted man the responsibility of caring for the beautiful and perfect Garden of Eden and all of nature. Man's role as steward of the environment is still as binding today as ever. The challenge of food production to meet the needs of the ever increasing world population is indeed a daunting one. With the increase in knowledge, giant strides have been taken from using primitive methods to hunt and gather food to the highly industrialized scientific and technological methods. In response to the call to stewardship and as a means of contributing to the development and growth of the human race, the department of Agronomy is committed to the training and holistic development of young persons as stewards of the environment and resources for the glory of God and the benefit of the human race.

In this era of sustainable development, Agriculture is expected to gradually assume its former position as the bedrock of the Nigerian economy. With the challenges of feeding the teeming world population and the increasing world-wide awareness and campaign for self-sufficiency in food production, there is an urgent need for appropriate capacity development and technological expertise in the field of Agriculture. The vocational nature of this field also makes it paramount in any Adventist institution.

## **MINIMUM ADMISSION REQUIREMENTS**

### **UME ENTRY MODE (100-LEVEL)**

To be eligible for admission into the Bachelor of Agriculture Program in Agronomy of Babcock University, five O' Level Credits in Chemistry, Biology or Agricultural Science, Mathematics,

English and Economics or any other subject of the SSSCE/GCE/NECO with at least a pass in physics, passed at not more than two sittings are required of prospective candidates. The credit pass in Agricultural Science must be backed up with at least a pass in Biology. In addition, prospective candidates must pass the Babcock University entrance (written and oral) examinations.

### **DIRECT ENTRY MODE (200-LEVEL)**

Candidates with the following qualifications are eligible for admission to 200-level;

1. Those that have satisfied the above minimum 'O' level conditions for admission, and in addition have a minimum of two credit passes at the **General Certificate of Education Advanced Level** or its equivalent in Chemistry, Biology (Botany and Zoology)/Agricultural Science.
2. Those that have satisfied the above minimum 'O' level conditions for admission, and in addition have obtained the **National Diploma (ND)** in Agriculture and related disciplines with a minimum of upper credit are eligible for direct entry into the five year course. The ND must be obtained from a School or College accredited by the National Board for Technical Education (NBTE) and recognized by the University.
3. Those that have satisfied the above minimum 'O' level conditions for admission, and in addition have obtained the **National Certificate of Education (NCE)** with a minimum of credit grade from a Nigerian College of Education accredited by appropriate body, and with relevant subject combinations from among: Agricultural Education.

### **DURATION OF THE PROGRAM**

The program of courses leading to the Bachelor of Agriculture (B. Agric) Agronomy degree covers a period of 4 or 5 academic years/sessions depending on the mode of entry.

### **MINIMUM REQUIREMENT FOR GRADUATION**

For the 5-year degree program, the first year (100 level) shall be a qualifying year. In order to proceed to the second year (200 level), students are expected to maintain acceptable minimum academic performance standards as defined by the University Administration. A minimum of (237, 237, 240 and 239 credits) are required for graduation, for Extension, Agronomy, Agric Econs and Animals science options respectively, as follows:

<b>LEVEL</b>	<b>GEDS COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON-DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
100	21 Credits	-	24 Credits	45
200	15 Credits	31 Credits	4 Credits	50
300	7 Credits	30 Credits	10 Credits	47
400	7 Credits	13 Credits	28 Credits	48
500 Agric Econs	5 Credit	34 Credits	11 Credits	50
500 Agric. Extens	5 Credit	31 Credits	11 Credits	47
500 Agronomy.	5 Credit	23 Credits	19 Credits	47
500 Animal Sci.	5Credit	25 Credits	19 Credits	49
<b>TOTAL</b>		<b>AGRIC ECONS</b>	-	<b>240</b>
<b>TOTAL</b>		<b>AGRIC.</b>	-	<b>237</b>

		<b>EXTENSION</b>		
<b>TOTAL</b>		<b>AGRONOMY</b>	-	<b>237</b>
<b>TOTAL</b>		<b>ANIMAL SCI.</b>	-	<b>239</b>

**BACHELOR OF AGRICULTURE (B.AGRIC)  
100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English 1	2	-
GEDS 132	Communication in English II	-	2

GEDS 134	Nigeria People in a Global Culture	-	2
	<b>CORE COURSES</b>		
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

**\*A minimum of C grade is required to qualify for Communication in English I & II**

**BACHELOR OF AGRICULTURE (B.AGRIC)  
200 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	2	-
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 280	Leadership Skills	-	2
GEDS 290	Spreadsheet and Digital Presentation	-	2
	<b>CORE COURSES</b>		
AGRY 201	Principles of General Agriculture	2	-
AGRY 202	Agricultural Microbiology	-	2
AGRY 203	Introduction to Soil Science	2	-
AGRY 204	Agricultural Botany	-	3
AGRY 205	Introduction to Forestry and wildlife	2	-

AGRY 207	Introduction to Agricultural Mechanization	2	-
AGRY 208	Introduction to Agricultural Climatology and Geographic Information System	-	3
AGRE 201	Introduction to Agricultural Economics	2	-
AGRE 202	Essentials of Food Security	-	2
AGRI 200	Statistics for Agriculture and Bio-sciences	-	2
ANSC 201	Introduction to Animal Husbandry	2	-
ANSC 202	Introduction to Agricultural Biochemistry	-	3
ANSC 203	Principles of Animal Nutrition	2	-
ANSC 204	Anatomy and Physiology of Farm Animals	-	2
ANSC 205	Introduction to Fisheries	2	-
NUDT 202	General and Applied Nutrition	-	2
	<b>TOTAL (50 Credits)</b>	<b>25</b>	<b>25</b>

**BACHELORS OF AGRICULTURE (B.Agric)**  
**300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
AGRI 304	Soil Chemistry	-	2
AGRI 308	Plant Pathology	-	2
AGRI 332	Genetics and Crop Breeding	-	3
AGRI 341	Weed Science, Pasture and Forage Management	3	-
AGRY 303	Physiology of Crop Growth and Yield	2	-
AGRY 312	Economic Entomology	-	2
AGRY 314	Workshop Practice	-	2
AGRY 318	Agricultural Machinery and Mechanization	-	3
AGRE 304	Introduction to Rural Sociology	-	2
AGRE 302	Introduction to Macroeconomics in Agriculture	-	2
AGRE 303	Introduction to Agricultural Extension	2	-
AGRE 305	Introduction to Agricultural Production and Environmental Economics	2	-
AGRE307	Introduction to Farm Management, Finance and Accounting	2	-
AGRE 308	Micro-Computer Application in Agriculture	-	2
AGRE 311	Introduction to Microeconomics in Agriculture	2	-
ANSC 303	Poultry Production and Management	2	-
ANSC 304	Feeds and Feeding	-	2
ANSC 311	Management of Ruminant Animals	3	-
	<b>TOTAL (47 Credits)</b>	<b>23</b>	<b>24</b>

**BACHELORS OF AGRICULTURE (B.AGRIC.)**  
**400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 430	Character Formation and Spiritual Growth	-	3
GEDS 440	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
AGRY 407	Harvest and Post Harvest Technology	2	-
AGRY 409	Elements of Land and Water Management	2	-
AGRY 411	Principles of Field and Plantation Crops Production	2	-
AGRE 400	Agribusiness Management	2	-
AGRE 403	Programme Planning in Agricultural Extension	2	-
ANSC 405	Essentials of Ruminant Animal Production	3	-
ANSC 407	Principles of Aquaculture and Microlivestock Production	2	-
AGRI 421	Soil Fertility and Plant Nutrition	2	-
AGRI 425	Statistical Methods and Field Experimentation	2	-
AGRI 427	Pesticides and Application	2	-
*AGRI 490	Field Practical Training I	-	20
	<b>TOTAL (48 Credits)</b>	<b>23</b>	<b>25</b>

**\*At this time student will go out for field work and return at the beginning of the first semester of the 500-Level for seminar within the first few weeks of resumption.**



**BACHELOR OF AGRICULTURE (B. AGRIC)  
AGRONOMY (OPTION)  
500 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	S/U	S/U
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
*AGRI 500	Field Practical Training II	-	5
AGRY 501	Ornamental Horticulture	2	-
AGRY 502	Seed Production and Certification	-	2
AGRY 503	Plant Breeding	3	-
AGRY 504	Pasture and Forage Management	-	2
AGRY 505	Irrigation and Agronomy	2	-
AGRY 506	Physiology of Crop Growth and Yield II	-	3
AGRY 507	Soil Management and Conservation	2	-
AGRY 508	Soil Microbiology	-	2
AGRY 509	Field Experimentation for Agronomy	2	-
AGRY 510	Landscape Design and Construction	-	2
AGRY 591	Seminar in Agronomy	1	-
AGRI 599	Research Project	-	6
**AGRE 505	Agricultural Project Planning and Implementation	3	-
**ANSC 505	Biotechnology Application in Agriculture	2	-
**AGRE 509	Farm Management and Accounting	3	-
	<b>TOTAL (45 Credits)</b>	<b>23</b>	<b>22</b>

**\*Part of the 25 credit SIWES Course taken in Second and Summer Semester, but the remaining 5credits is carried over to first semester 500L in order to avoid an overload in the 400L second semester.**

**\*\*Compulsory courses taken outside the area of specialization.**

## BACHELOR OF AGRICULTURE (B. AGRIC)

### ANIMAL SCIENCE (OPTION)

#### 500LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional life	3	-
	<b>CORE COURSES</b>		
*AGRI 500	Field Practical Training II	5	-
ANSC 511	Monogastric and Ruminant Animal Nutrition	3	-
ANSC 504	Monogastric (Swine and Rabbit) Production	-	2
ANSC 505	Biotechnology Applications in Agriculture	2	-
ANSC 506	Animal Breeding Methods and Livestock Improvement	-	3
ANSC 507	Animal Experimentation and Research Techniques	2	-
ANSC 508	Bioclimatology of Farm Animals	-	2
ANSC 513	Seminar	1	-
ANSC 510	Animal Products and Processing	-	2
ANSC 515	Hatchery Technologies and Management	2	-
ANSC 512	Reproductive Physiology and Artificial Insemination	-	2
ANSC 514	Animal Health and Diseases	-	2
ANSC 517	Feed Manufacturing and Feed Milling	2	
AGRI 599	Research Project	-	6
	<b>REQUIRED COURSES</b>		
**AGRE 505	Agricultural Project Planning and Implementation	3	-
**AGRY 504	Pasture and Forage Management	-	2
**AGRE 509	Farm Management and Accounting	3	-
	<b>TOTAL (47 Credits)</b>	<b>26</b>	<b>21</b>

**\*Part of the 25 credit SIWES Course taken in Second and Summer Semester, but the remaining 5credits is carried over to first semester 500L in order to avoid an overload in the 400L second semester.**

**\*\*Compulsory courses taken outside the area of specialization.**

**BACHELORS OF AGRICULTURE (B.AGRIC.)**  
**AGRICULTURAL ECONOMICS AND AGRIBUSINESS MANAGEMENT**  
**OPTIONS**  
**500 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
*AGRI 500	Field Practical Training II	5	-
AGRE 531	Principles of Microeconomics in Agriculture	2	-
AGRE 532	Principles of Macroeconomics in Agriculture	-	2
AGRE 529	Economics of Agriculture Production	2	-
AGRE 534	Agricultural Commodity Trade and Marketing	-	3
AGRE 525	Agricultural Project Planning and Appraisal	2	-
AGRE 524	Agricultural Policy and Development	-	2
AGRE 507	Research Methods in Agricultural Economics and Extension	2	-
AGRE 508	Agricultural Finance	-	3
AGRE 509	Farm Management and Accounting	3	-
AGRE 510	Agricultural Resource Economic and Agrarian Law	-	2
AGRE 511	Econometrics in Agricultural Economics	3	-
AGRE 512	Economics of Co-operatives in Agriculture	-	3
AGRE 519	Mathematics in Agriculture Economics	2	-
AGRE 521	Quantitative Technique in Agriculture	2	-
AGRE 536	Leadership and Change Management in Agribusiness	-	2
AGRI 599	Research Project	-	6
	<b>TOTAL (49 Credits)</b>	<b>26</b>	<b>23</b>

**\*Part of the 25 credit SIWES Course taken in Second and Summer Semester, but the remaining 5credits is carried over to first semester 500L in order to avoid an overload in the 400L second semester.**

**BACHELORS OF AGRICULTURE (B.AGRIC.)  
EXTENSION AND RURAL SOCIOLOGY OPTION  
500 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
*AGRI 500	Field Practical Training II	5	-
AGRE 505	Agricultural Project Planning and Implementation	3	-
AGRE 507	Research Methods in Agricultural Economics and Extension	2	-
AGRE 509	Farm Management and Accounting	3	-
AGRE 510	Agriculture Resource Economic and Agrarian Law	-	2
AGRE 511	Econometrics in Agricultural Economics	3	-
AGRE 512	Economics of Co-operatives in Agriculture	-	3
AGRE 514	Audio-Visual Aids in Extension	-	2
AGRE 515	Extension Organization, Management and Supervision	2	-
AGRE 516	Rural Sociology	-	2
AGRE 517	Diffusion of Innovations	3	-
AGRE 528	Rural Community Development Technology and Social Change	-	3
AGRE 538	Social Psychology	-	3
AGRI 599	Research Project	-	6
	<b>TOTAL (45 Credits)</b>	<b>24</b>	<b>21</b>

**\*Part of the 25 credit SIWES Course taken in Second and Summer Semester, but the remaining 5credits is carried over to first semester 500L in order to avoid an overload in the 400L second semester.**

## **BACHELORS OF AGRICULTURE (B.AGRIC)**

### **COURSE DESCRIPTIONS**

#### **BIOL 101: GENERAL BIOLOGY I 3 Credits**

Scientific methods to biology concepts. Characteristics of living and non-living things. Cell, tissue, organ and organ system levels of organization. Basic cell types: Prokaryotic and Eukaryotic and Prokaryotic cells. Cell structure and organization. Function of cellular organelles. Mitosis, Meiosis and Heredity. Elements of Biological Chemistry aspect of organic, inorganic and physical chemistry relevant to Biology. Interrelationship among organisms.

#### **BIOL 102: GENERAL BIOLOGY II 3 Credits**

A brief account of the evolution of plants: Bacteria, fungi, algae, lichens, bryophytes, pteridophytes etc. the major characteristics, structure and physiology of each group. Ecology and types of habitats. Diversity of life- acellular animals (protozoa), coelenterates, acoelomate animals (Platyhelminthes). Nematodes, Mollusca, Arthropods, Echinodermata etc. concept of ecology of the organisms

#### **CHEM 101: GENERAL CHEMISTRY I 3 Credits**

Atoms, molecules and structure, states of matter, thermochemistry, chemical kinetics, acids bases and salts, equilibria, solutions, oxidation and reduction, electrochemistry.

#### **CHEM 102: GENERAL CHEMISTRY II 3 Credits**

Chemical bonding. The periodic Table; Inorganic chemistry of main groups I, II, III, IV; basic principles of Organic Chemistry; Structural terminology; functional group chemistry.

#### **MATH 101: GENERAL MATHEMATICS I 3 Credits**

(Algebra and Trigonometry) Elementary set theory, subsets, union, intersection, complements, Venn diagrams, real numbers, integers, rational and irrational numbers, mathematical induction, real sequences and series theory of quadratic equations, binomial theorem. De Moiré's theorem, nth roots of unity. Circular measure, trigonometric functions of angles of any magnitude, additional and factor formulae.

#### **MATH 102: GENERAL MATHEMATICS II 3 Credits**

(Calculus) Function of real variable, graphs, limits and idea of continuity. The derivatives, as limit of rate of change. Techniques of differentiation. Extrema curve sketching; Integration as an inverse of differentiation. Methods of integration. Define integrals; Application to areas, volume.

#### **PHYS 101: GENERAL PHYSICS I 3 Credits Mechanics,**

Thermal Physics and waves)

Space and time, units and dimension, Kinematics; Fundamental laws of Mechanics, statics and dynamics; work and energy; conservation laws. Elasticity; Hooke's law, Young's shear and bulk moduli, Hydrostatics; Pressure buoyancy, Archimedes' capillary, drops and bubbles.

Temperature; heat; gas laws; laws of thermodynamics; kinetic theory of gases. Sound, applications.

**PHYS 102: GENERAL PHYSICS II 3 Credits**

Electricity, Magnetism and Modern Physics – Electrostatics; conductors and currents; dielectrics; magnetic fields and induction; Maxwell's equations; electromagnetic oscillations and waves; applications.

**AGRY 201: PRINCIPLES OF GENERAL AGRICULTURE 2 Credits**

History of agriculture, ecological distribution of plants crops, factors of the environment and their effects on vegetation timber and crop distribution in Nigeria. Animal distribution and production in Nigeria. Agricultural raw materials, their finished food and industrial products economic use of some agricultural by products development of soil science and its importance in agriculture; soil losses and general methods of conserving soil. Cropping systems. Influence of insects, micro organisms and weeds on crop production, human and livestock health and the ecology. Land use and tenure; marketing and consumption of agricultural products. Natural resources and management; Agroforestry and the environment

**AGRY 202: AGRICULTURAL MICROBIOLOGY 2 Credits**

Introduction to Microbiology, Basic Principles of Microbiology, Introduction to the Use of Microscope, Culture methods in Microbiology, Structure, classification and life history of nematodes, fungi, bacteria, viruses and insects of agricultural importance (Applied Microbiology).

**AGRI 200: STATISTICS FOR AGRICULTURE AND BIO-SCIENCES 2 Credits**

Statistical inference, statistical theories, elements of frequency distribution and probability distribution, characteristics of population and sample, parameters in statistics, basic laws of probability. Probability and biblical promises.

**AGRY 203: INTRODUCTION TO SOIL SCIENCE 2 Credits**

Rocks Definition revealing its primary minerals (silicate and non-silicate).

Description of rock types, (metamorphic, igneous and sedimentary. Rock weathering physical and chemical to generate parent material types – parent materials – precursors of soil.

Soil formation processes and factors of soil formation – soil profile development.

Soil physical properties: Texture, structure bulk density including porosity, soil colour, temperature. Types of soil survey and methods of soil survey. Soil colloids and soil reaction. Soil suitability rating and land use pattern. Soil map production, soil survey report and its usefulness as collateral for securing bank loans: Laboratory analysis on physical properties (texture, structure and colour temperature.

**AGRY 204: AGRICULTURAL BOTANY 3 Credits**

History of Microscopy and their use in scientific studies, Microscope and its main parts. Introduction to plant taxonomy. Characteristics, distribution, economic importance and local examples (crop and weeds) of the following plant families: Leguminosae, Gramineae,

Solanaceae, Compositae, Dioscoreaceae, Malvaceae, Musaceae, Sterculiaceae, Rubiaceae, Euphorbiaceae, Rutaceae, and plant varieties. Introduction to plant Anatomy.

**AGRY 205: INTRODUCTION TO FORESTRY AND WILDLIFE 2 Credits**

Forest and game reserves in Nigeria - scope and importance. Concept for ecosystem; nutrient and energy flow in ecosystem. Silviculture; afforestation; felling and log transportation. Characteristics of major timber and their uses.

**AGRY 207: INTRODUCTION TO AGRICULTURAL MECHANIZATION 2 Credits**

Introduction of the course. Definition of terms: Agriculture, Engineering, Agriculture Engineering, Farm Mechanization. Concepts of agricultural mechanization. Advantages and disadvantages of farm mechanization. Factors enhancing agricultural mechanization in Nigeria. Basic mechanics. Farm machines and field implements. Selective acceleration mechanics, levers and frictions. Farm machines and field implements 15h (T); 45h (P).

**AGRY 208: INTRODUCTION TO AGRIC. CLIMATOLOGY & GEOGRAPHIC INFORMATION SYSTEMS 3 Credits**

Identification of weather variables noting the ones that have resource value (promotive effect on agricultural production – crop, livestock and disease with a view to enhancing the promotive effect through deployment of relevant cultural practices. Noting weather variable with adverse effect on agricultural production and deployment of relevant cultural practice to mitigate the adverse effect. Identification and description of equipment for measuring the variables weather stations – types, typical of dimension of the station. Considerations of factors to note when siting a weather station. Photoperiod/day-length/number of sunshine hours as a factor in some crops flowering. Definition of photoperiodism and classification of crop plants photoperiodic and day neutral crop plants. Visit to a weather station. Rain formation and rainfall; temperature and heat; wind; evaporation and evapotranspiration. The climate of West Africa. Relations between agriculture and climate with reference to irrigation, crops, livestock, pests and diseases. Introduction to basic concepts of vector Geographic Information Systems (GIS) using several industry specific software programs. Introduction to nomenclature of cartography and geography

**ANSC 201: INTRODUCTION TO ANIMAL HUSBANDRY 2 Credits**

Species and breeds of livestock. Their distribution and production in Nigeria and the world. Morphology of farm animals. Feeding habits of farm animals. Management and disease problems of life stock. Farming in the Nigerian economy and human nutrition. Animal Products.

**ANSC 202: INTRODUCTION TO AGRICULTURAL BIOCHEMISTRY 3 Credits**

Chemistry of carbohydrates, lipids, proteins and nucleic acids. Vitamins and their coenzyme functions. Minerals. The nature, classification and function of enzymes and hormones.

**ANSC 203: PRINCIPLES OF ANIMAL NUTRITION 2 Credits**

Chemical composition of the animal body. Water in relation to animal nutrition. Enzymes, co-enzymes and vitamins. Metabolism of carbohydrates, lipids and protein. Urea cycle. Mineral and energy metabolisms

**ANSC 204: ANATOMY AND PHYSIOLOGY OF FARM ANIMALS 2 Credits**

Comparative anatomy of digestive and reproductive tracts of laboratory and farm animal. Anatomy and histology of the reproductive systems in farm animals. Physiological basis for growth and development, lactation, milk let down and egg production. Water balance, nervous systems and hormonal system. Temperature regulation in farm animals.

**ANSC 205: INTRODUCTION TO FISHERIES 2 Credits**

Basic structure of fishes; their adaptation to aquatic life. Ecology of aquatic systems. Fundamental links in the life cycle of fishes. Important species of fishes in West Africa and the significance of fishes in the life of Nigerians. The Fishery industry in Nigeria.

**AGRE 201: INTRODUCTION TO AGRICULTURAL ECONOMICS 2 Credits**

Fundamentals of agricultural Economics, Elementary concepts of Microeconomics and Macroeconomics and their application in Agriculture (Microeconomic component to cover principles of consumer demand; Concept of opportunity cost in agriculture/farm resource allocation, agricultural production and cost. Life applications for the demand for spiritual growth; Price determination mechanism under perfect and imperfect market structures. Macroeconomic component to cover national income accounting, money and banking, theory of international trade and agricultural development. Agriculture as an economic activity and problems of Nigerian Agriculture and the rural economy. Agriculture as the original profession of man and how sin or right living can affect agriculture.

**AGRE 202: ESSENTIALS OF FOODS SECURITY 2 Credits**

Introduction to food security; concepts and definitions. Causes and consequences of hunger and food security with examples in local communities. Food security in Nigeria, ECOWAS region and Sub-Saharan Africa: Trends and commonalities. Effect of climate change and water resources. Challenges and opportunities in sustainable food production. Gender in relation to food security and sustainable livelihoods. Gender roles and relationships in agriculture. Institutions and food security: stakeholders; local and international. Institutional goals and approaches (strength and weakness). Effectiveness of institutions. Food security policy and reforms: law and policy, policy making bodies and institutions in Nigeria, ECOWAS and Africa. Poverty reduction and food policies. Practical steps to eliminating food insecurity.

**NUDT 202: GENERAL AND APPLIED NUTRITION 2 Credits**

Basic nutrition principles with special emphasis on nutrients, digestion, absorption, metabolism and their problems. Control of appetite Nutritive value of tropical foods and Nigerian diet; effect of season and cultural habits on food choice and consumption. Effect of nutritional deficiency and toxicity on people. Interaction of diets and environmental factors in the prevention of diseases (personal hygiene). Interrelationship of nutrients. Food enrichment and supplementation in general. Hormones, nutrition and immune responses. Parasitism. Foetus as a parasite, Effect of diet on biochemical processes. Our commitment (Adventist Heritage) according to *Genesis 1: 26 – 28 is to utilize God's provision at the beginning of the world to feed the Nation and to ensure proper nutrition with a view of sustaining health.*

**AGRE 311: INTRODUCTION TO MICROECONOMICS IN AGRICULTURE**



## **2 Credits**

Overview of economic principles; Utility theory and indifference curves; household demand and Engel's curves; cost theory; market equilibrium analysis under perfect competition market, monopoly, monopolistic competition and oligopoly; public microeconomic policies under comparative economic systems. Introduction to production theory

### **ANSC 311: MANAGEMENT OF RUMINANT ANIMALS 3 Credits**

Management of breeding stock, growing and young animals. Housing and equipment. Principles of feeding cattle, sheep and goats. Production and Management practices. Livestock economics. Health management of ruminant animals. Ruminant animal products.

### **AGRI 341: WEED SCIENCE, PASTURE AND FORAGE MANAGEMENTT 3 Credits**

Biology and ecology of weeds. Characteristics and importance of weeds, Common Weeds of Arable crops, Pasturage in Nigerian agriculture. Geographical distribution of weeds and natural pasture in Nigeria. Pasture establishment and management. Grazing systems. Grass-legume mixtures. Utilization of pasture and fodder crops. Forage preservation.

### **AGRI 332: GENETICS AND CROP BREEDING 3 Credits**

Cell Structure, Chromosomes as the centre for Genetic information, Variations in Chromosome number and structure and its genetic implications, Heritable and non-heritable characters. Mendelism. Probability and test of goodness of fit. Quantitative inheritance. Source and applications of variation in genome structure. Polygenic inheritance. Introduction to population genetics:- Hardy-Weinberg theory, gene frequency etc. Selection and Crop Breeding Methods. Introduction to plant Tissue Culture and Biotechnology.

### **AGRE 302: INTRODUCTION TO MACROECONOMICS IN AGRICULTURE**

#### **2 Credits**

Money, banking and policies, aggregate income and expenditure, inflation, price index, classical theory of saving and investment sample model of consumption function. Jesus' model for banking and financial investment in the parable of the talents

### **AGRY 303: PHYSIOLOGY OF CROP GROWTH AND YIELD 2 Credits**

Water and nutrient uptake and movement in plants, transpiration and heat transfer; photosynthesis and dry matter accumulation; dark respiration. Importance of nitrogen in plants; nitrogen fixation. Plant growth and Cell differentiation; with emphasis on root, shoot and bud development. Germination and dormancy; Physiology of flowering, fruiting and senescence.

### **ANSC 303: POULTRY PRODUCTION AND MANAGEMENT 2 Credits**

Poultry breeds and their characteristics. Housing and Equipment. Production Systems. Management and principles of poultry production. Nutrition and diseases of broilers, layers and chicks.

### **AGRE 303: INTRODUCTION TO AGRICULTURAL EXTENSION 2Credits**

Definition of Agricultural Extension, Historical development of Extension in Nigeria. Basic principles of extension, diffusion, adoption and rejection of innovations. Extension teaching

methods and aids. Jesus' teaching method and aids and application to extension education. The concepts of communication and leadership in agricultural extension.

**ANSC 304: FEEDS AND FEEDING**

**2 Credits**

Classification of feeds. Proximate analysis and nutritive value of Nigerian feed stuffs. Utilization of Agric-industrial by - products. Protein/energy requirements of farm livestock. Feeding standards. Balance trial methods and methods for evaluating the nutritive value of feeds.

**AGRI 304: SOIL CHEMISTRY**

**2 Credits**

Description of soil Colloids (Micelles) types (1) Mineral and organic colloids, their structures layer structure determining their types 1:1, 2:1, 2:2 layer silicate minerals. Propertic of clay types as to size, possession of negative charges – processes of acquisition of the sites and nature of the sites as they influence ability to sorb and retain nutrient cations against leaching loss under varying soil reactions. Chemistry of acid and alkaline soil in relation to nutrient availability. Explanation of types of acidity (active and reserved) total neutralization of acidity. Determination of pH methods colometric, electrode method with pH meter. Laboratory session or practicals on pH determination. Soil pollution through oil spillage toxic heavy metals (lead and mercury) and salt degraded soil saline and sodic and reclamation of polluted soils.

**AGRE 304: INTRODUCTION TO RURAL SOCIOLOGY**

**2 Credits**

Concepts, method and general principles of Rural Sociology and their application to an understanding of the rural farming situation and rural development in Nigeria. Culture, Elements and Processing of Social system, settlement patterns field trip to a rural community. Influence of biblical culture on the Christian farmer.

**AGRE 305: INTRODUCTION TO AGRICULTURAL PRODUCTION AND ENVIRONMENTAL ECONOMICS**

**2 Credits**

Theories and principles of agricultural production and resource use and resource allocation; agricultural production relationships (factor-factor, factor-product, and product-product); agricultural production and the environment; land, water and forest resource resources management for sustainable agricultural production; God's original resource management principles; economics of irrigation and water use in agriculture; production functions. Biblical emphasis on man's responsibility to environmental protection.

**AGRI 308: PLANT PATHOLOGY**

**2 Credits**

Principles of Plant Pathology, Characteristics and Classification of fungi, bacteria, viruses and nematodes of economic importance, Symptoms, Spread and Control of common plant diseases caused by fungi, bacteria, viruses and nematodes, General methods of controlling plant diseases, Plant Disease Epidemiology, Causes, Severity and Effects of Plant Diseases.

**AGRE 308: MICRO-COMPUTER APPLICATION IN AGRICULTURE**

**2 Credits**

Introduction to information technology; computer hardware, storage, communication, application of software, types of software, social, moral, ethical and economic issues relating to

IT. Use of microcomputer applications software in agricultural research. General review of the use of statistical software

**AGRY 312: ECONOMIC ENTOMOLOGY**

**2 Credits**

Introduction to Entomology, History of Entomology, Characteristics and Classification of Insects of Economic Importance, Biology and Ecology of Agricultural Insect Pests, Economic Importance of some Insect Pests, Methods of Controlling Insect Pests, Resistant Plant Varieties, Insects of Social Importance, Insect museums. 1Credit, 1P

**AGRY 314: WORKSHOP PRACTICES**

**2 Credits**

Introduction to workshop practice, Selection and uses of common workshop tools, Properties of workshop materials, Strength of materials, Methods of improving the strength of materials, Workshop practices: Welding, Cutting etc. Accidents in the workshop: Types and Causes. Lathe machines, Milling machines. General safety precautions

**AGRY 318: AGRICULTURAL MECHINERY AND MECHANIZATION 3 Credits**

Identification, selection and uses of common workshop tools. Workshop practices and safety precautions. Description of major farm tools and machine parts specifications and material handling for farm buildings, farm stead planning. Principles and procedures of agricultural land surveying. Source of power on the farm. Description of internal combustion engines and agricultural tractors. Agricultural processing and storage. Description of major farm equipment for primary and secondary tillage operations. Problems and prospects of agricultural machinery usage for Nigerian agriculture. Cost analysis of agricultural power and related field machinery. Machinery capacity and field performance evaluation. Maintenance procedure for field machinery.

Workshop Tools and Workshop Practical.

**AGRE 307: INTRODUCTION TO FARM MANAGEMENT, FINANCE AND ACCOUNTING**

**2 Credits**

Principles of accounting; types of accounting information and their uses; farm records; preparation of farm accounts- balance sheets, income statements, etc; time value of money (compounding and discounting methods); evaluation of farm investment proposals (non-time adjusted and time-adjusted approaches); farm business and enterprise management. Procedures for keeping and analyzing records. efficiency ratios. Farm budgeting, gross margin analysis, profitability analysis, marginal analysis, resource use efficiency; Records management of our character in heaven.

**AGRE 400: AGRIBUSINESS MANAGEMENT**

**2 Credits**

Organization and operation of farm business enterprise; selection, resource mobilization and allocation and special marketing arrangements; concepts of entrepreneurship; legal requirements for establishing or starting a new agribusiness; application of managerial and behavioural models to agribusiness management; key factors in the performance of agribusinesses in Nigeria. Business plan, feasibility of business Agribusiness operations in the parable of the sower.

**ANSC 405: ESSENTIALS OF RUMINANT ANIMAL PRODUCTION**

**3**

**Credits**

World distribution of cattle breeds. Dentition, reproduction, and lactation in cattle. Mating, calving and management routines of cattle. Systems of beef cattle production. Products marketing. Problems of beef and dairy cattle production in Nigeria. World distribution and types of goat and sheep breeds, production and lactation in goat and sheep. Management routines of goat and sheep. Autonomy and Responsibility – our passion.

### **AGRE 403: PROGRAMME PLANNING IN AGRICULTURAL EXTENSION**

**2 Credits**

Meaning and reasons for planning extension programmes; models of extension programme plan; steps in extension programme planning; concept of programme devt in extension; meaning and concept of the down-up and the up-down extension programme plans. Lessons from God's communication methods (bible account). Projects Vs programmes (with examples); monitoring and evaluation in extension practices; Design and use of questionnaires; practical evaluation of an extension programme.

### **ANSC 407: PRINCIPLES OF AQUACULTURE AND MICROLIVESTOCK PRODUCTION**

**2 Credit**

Aims and types of aquaculture. History, present organization and status of aquaculture in Nigeria. Principles of aquaculture-liming and pond fertilization, food supply, growth rate and food conversion, selection of culture species, introduction of exotic species and its implications etc. Stocking feeding and harvesting practices. Fish farm design. Economic considerations in aquaculture. Definition, little known animals with promising economic features. Biology of micro-livestock species. Nutritional behavioral patterns. Feeding under different system of management. Feed resources and alternative feed ingredients. Nutrient requirement of micro livestock. Appropriate technology for feeding micro livestock. Principle of Micro-livestocks. Rearing of micro livestock e.g. grass cutter, honey.

### **AGRI 421: SOIL FERTILITY AND PLANT NUTRITION**

**2 Credits**

Element in the earth crust notably the essential nutrient elements – factors determining essentiality. Classification of essential nutrient elements namely: Macro and Micronutrients with examples, classification of macronutrients, major or primary/secondary macronutrients. Ionic forms of nutrients absorbable by plants. Delimitation of soil fertility/productivity on the basis of soil chemical, physical and biological properties. Functions of nutrients – deficiency symptoms. Treat the major nutrients (NPK) factors guiding their availability to crop plants viz plants. Plant and soil related e.g soil reaction, bulk density, drainage etc.

Biology Nitrogen fixation (BNF) – symbiotic and asymbiotic, factors promoting efficiency of symbiotic fixation – nutritional and rhizobial in circulation; fertilizer – types; mineral and organic – comparative merits and demerit. Sole and combined application in relation to plant nutrition. Basic fertilizer placement methods – factors guiding selection of a method, size fertilizer to apply, characteristics of the fertilizer nutrients as to mobility within the soil, soil factor (soil reaction). Laboratory practical sessions for nutrient (NPK) analysis in soil and plant.

**AGRI 425: STATISTICAL METHODS AND FIELD EXPERIMENTATION****2 Credits**

Concept of statistics and test of significance; Introduction to field experiments. Selection of designs for specific situations, applications to daily living; Collection and analysis of data. Interpretation of results of the following designs partial plots completely randomized, randomized complete block, Latin square, split plot and factorial experiments; lessons from God's design in creation. Statistical inference, test of hypothesis, correlation and regression analysis; Goodness of fit; formulation of research objectives. Multiple means

**AGRY 407: HARVEST AND POST-HARVEST TECHNOLOGY 3 Credits**

Selection, use and maintenance of harvesting equipments suitable for Nigerian agriculture. Field performance evaluation of harvesting equipments and facilities for handling of agricultural products. Identification and description of processing equipments. Principles and practices involved in storage of agricultural crops.

**AGRY 409: ELEMENTS OF LAND AND WATER MANAGEMENT 2 Credits**

Irrigation: Methods of irrigation Measurement of irrigation water. Frequency and amount of irrigation. Design of simple irrigation systems. Drainage: Drainage requirements of crops. Surface and sub-surface drainage. Reclamation of saline and alkaline soils. Soil conservation: Soil erosion by wind. Control of water and wind erosion. Gully control structures.

**AGRY 411: PRINCIPLES OF FIELD AND PLANTATION CROPS PRODUCTION****2 Credits**

Principles of arable crop production. Ecological factors influencing the distribution of arable crops in Nigeria. The production practices of the following arable crops: cereals - maize, rice, guinea corn, wheat and millet; grain legumes - cowpeas and soya beans; root crops - yam, cassava sweet potato and cocoyam; oilseeds - groundnut and sesame; fibre crops, jute kenaf and aramina; vegetables - onion, pepper, tomatoes, okra, melon. Production practices of the following Plantation Crops: Pineapple, Banana, Oil palm, Citrus.

**AGRI 427: PESTICIDES AND APPLICATION****2 Credits**

History and Origin of the Use of Pesticides, Principles of Pest Management, Principles, techniques, and equipment for the application of crop protection chemicals in the control of field and storage pests. Pesticides Toxicity: Symptoms and Treatments. Safe Use of Pesticides. Maintenance and repair of spraying equipment.

**AGRI 490: FIELD PRACTICAL TRAINING I****20 Credits**

Field practical experience on the various aspects of agriculture. The period covers the first and second semester at the 400 level, and the immediate long vacation or the summer semester.

**GEDS 430: CHARACTER FORMATION AND SPIRITUAL GROWTH 3 Credits**

The course focuses on the Biblical perspective on character formation and spiritual growth of the student. Recognizing that character formation and spiritual growth are both life-long process, the course emphasizes the need for spiritual nurture and care. This is expected to lead to the renewing of the mind and the maturing and growth of the Christian identity. The course also

identifies how God utilizes Scripture, people, contexts, literature, spiritual disciplines, and events to transform believers into the image of Christ. Specifically, the spiritual disciplines of prayer, feeding on the word and meditating on it are intentionally designed to foster spiritual growth. The course underscores the role of the Holy Spirit in building a symmetrical and Christ-like character. While references to some Bible characters with a view to evaluating their strengths and weaknesses may be helpful, a major focus of the course is on the life of Christ, the one and only perfect character. By daily contemplating the character of Christ, the student becomes changed to the same image. Students offering the course are expected to imbibe the character traits of love, faithfulness, reverence, integrity, and piety that will equip them to render selfless service in the wider society.

**AGRE 531: PRINCIPLES OF MICROECONOMICS IN AGRICULTURE 2 Credits**

Supply and demand analysis, price and substitution effect on consumption Theory of consumer behaviour and household demand; theories of production and costs; marginal productivity theory of distribution; market equilibrium analysis under perfect and imperfect competition; general equilibrium models; welfare economics. Cost analysis, cost minimization, profit maximization in production, theory of the firm (short and long run).

**AGRE 532: PRINCIPLES OF MACROECONOMICS IN AGRICULTURE 2 Credits**

Classical macroeconomics models, the Keynesian Model. National account and national income determination; commodity and money market; general equilibrium model; fundamentals of economic growth and fluctuations; inflation and consumer price indices; balance of trade and payment. Unemployment, consumption, investment and savings, demand and supply of money.

**AGRE 529: ECONOMICS OF AGRICULTURAL PRODUCTION 2 Credits**

Theory and principles of agricultural production with respect to resource use, resource allocation, resource and product enterprise combination. Faith influence on resource allocation, use and enterprise combination. Empirical production functions. Supply and cost elasticities. Production planning in agriculture using linear programming and simulation. Production decision making under risk and uncertainty. Production diversification and risk minimization. Uncertainty management with the use of subjective probability and the game- against nature approach

**AGRE 534: AGRICULTURAL COMMODITY TRADE AND MARKETING 2 Credits**

Basic concepts of Agricultural marketing. Marketing institution, consumer behavior. Analysis of structure, conduct and performance of the Nigerian marketing system for food and cash crops and livestock. Marketing research. Christian integrity and marketing. Price analysis(spatial and temporal),marketing functions, marketing margin, channels and chains, marketing efficiency of the effect of nature of agricultural product on marketing, supply and demand analysis, elasticities.

**AGRE 525: AGRICULTURAL PROJECT PLANNING AND APPRAISAL 2 Credits**

Planning and Agricultural development: Agricultural planning in Nigeria, steps in Agricultural planning, problems of agric planning. Project definition, important aspect of project preparation and analysis. Project cycle, Project cost and benefits: Objective cost and benefit, with “and without” comparison of benefit and cost, classification of cost and benefit, pricing project cost and benefit. Jesus’ teaching on benefit and cost analysis. Tools of project analysis, time values

of money. Arithmetic of project analysis (NPW/NPV, B/C Ratio, IRR) sensitivity analysis-treatment of uncertainty. Case studies (Preparing feasibility reports).

**AGRE 524: AGRICULTURAL POLICY AND DEVELOPMENT 2 Credits**

Historical and analytical treatment of government agricultural policies and programmes in Nigeria and development countries in general; theories and policies of agricultural development. Role of Agriculture in the economy. Special highlights on agriculture in the bible. Problems of Agricultural development and planning. Integrated rural development planning.

**AGRE 507: RESEARCH METHODS IN AGRICULTURAL ECONOMICS AND EXTENSION 2 Credits**

Steps in research, choosing a research topic, Result oriented projects/studies; Problem definition and conceptualization; justification Hypothesis formulation and objectives; Data gathering methods; Appropriate methods of analysis; Time-chart and scheduling; Conclusion and implementable suggestions. Sampling techniques, questionnaire sign, administration and retrieval

**AGRE 508: AGRICULTURAL FINANCE 3 Credits**

Principles of agricultural finance and problems of financing agriculture and agricultural development; specialized institutions for the extension of agricultural credit in Nigeria, including co-operative loan and thrift societies. Biblical counsel on borrowing for consumption and investment. Managing agricultural finance, course of agric finance

**AGRE 509: FARM MANAGEMENT AND ACCOUNTING 3 Credits**

An overview of relevant economic principles in farm management. Lessons from Edenic farm management principles. Farm record and accounting. Farm business and enterprise analysis. Farm planning methods, budgeting and budgetary analysis , gross margin analysis and program planning, farm investment and analysis. Principles of farm project evaluation. Profitability analysis, management of farm resources, efficiency of farm resource use.

**AGRE 510: AGRICULTURAL RESOURCE ECONOMICS AND AGRARIAN LAW 2 Credits**

Types and characteristics of agric and natural resources; resource use and conservation with emphasis on policies and institutions affecting use and conservation; environmental conservation in the bible teachings. Resource exploitation in agriculture. Basic concepts in land economics - urban and rural, with emphasis on the Nigerian land tenure systems. The Nigerian Land Use Act: Problems and prospects. Legal issues affecting agriculture and rural development; The law of contract; Introduction to real estate finance and market.

**AGRE 511: ECONOMETRICS IN AGRICULTURAL ECONOMICS 3 Credits**

Definition and Scope of Econometrics. Correlation theory: measure of linear correlation, rank correlation and partial correlation. Simple and multiple regression and interpretation. Confidence interval computation. Properties of least square estimations. Econometric problems: the assumption of randomness, zero mean, constant variance and normality of the disturbance

variable 'U'. violation of assumption-multicollinearity, heteroskedasticity, autocorrelation, linear and non-linear functions, estimation with deficient data.

**AGRE 512: ECONOMICS OF CO-OPERATIVES IN AGRICULTURE 3 Credits**

Meaning and philosophy of cooperative, classification of cooperatives, cooperative formation. Cooperatives as a form of business. Purpose, advantages to members and importance of cooperatives to Agriculture. Comparison of other businesses with co-operative business. Principles of co-operative. Historical evolution leading to modern co-operatives. Economic principles and co-operatives in Agriculture. Management of co-operative. Aligning principle, ideals and practices to biblical standard for cooperation. Financing cooperative, cooperative education

**AGRE 514: AUDI-VISUAL IN AIDS EXTENSION L: 1, P: 1 2 Credits**

Definition of Communication and advocacy, Levels of communication, elements of communication. Models of communication, Barriers and problems in communication. Theoretical overview of audio-visual communication. Types of audiovisual equipment such as slide projector, overhead projector, opaque projector, camera and screen. Design of simple audio-visual aids. Conditions for selection and use of audio-visual aids in extension. Presentation of information through exhibits, display, slide sets, film strips and projected software.

**AGRE 515: EXTENSION ORGANIZATION, MANAGEMENT AND SUPERVISION 2 Credits**

Concept, theories, guidelines and principles of extension organization, management and supervision. Roles and responsibilities of various levels of extension and other relevant staff. Staff recruitment, selection, placement and supervision. Principles of morale and motivation and implications for extension staff development and promotion creating conducive working environment. Assessment of extension work accomplishments. Improving Nigeria extension services. Decision making in administration factors influencing organizational structure. Role of supervisor in office management. Training of extension agents, motivation and incentives. Staff grievances, discipline, and public relations. Concept, theories, principles and guidelines of administration, organization, and supervision as applied to extension administrative functions and responsibility in agricultural extension; staff recruitment, selection, placement and supervision. Budget development and fiscal control.

**AGRE 516: ADVANCED RURAL SOCIOLOGY 2 Credits**

General Sociology theory, analysis of social structure of normal agrarian system and societies. Selected theories of social change and their potential for modernization of rural societies; social change and attitude change; measurement of change in rural societies. Economic aspects of social change; group dynamics; traditional institution and their transformation, leadership patterns. Involvement of local people in directed change. Problems of rural societies, their causes and solutions. Special topics in rural sociology. Selected case studies. Rural sociology and bible doctrine with respect to character development, modification and change.

**AGRE 517: DIFFUSION OF INNOVATIONS 3 Credits**



Meaning and elements of diffusion. The innovation decision process. The characteristics of innovations. Adopter categories and characteristics. Community characteristics and adoption. Opinion leadership. Change agents. From theoretical perspectives on diffusion of innovations. Generalizations from diffusion studies in Nigeria and other developing countries.

**AGRE 528: RURAL COMMUNITY DEVELOPMENT. TECHNOLOGY AND SOCIAL CHANGE** **3 Credits**

Sociological, economic and related policy perspectives as they relate to rural development. The theories of community; dimensions of innovations. Community development and other developments. Case studies on community development programmes and identification of factors of success and failure. The future of communication in Nigeria. Understanding technological. General principles of introducing technological change. Technology change in Nigeria agricultural development and agric extension. Ethical and moral consideration in introducing technological change; agricultural engineers and public extension system.

**AGRE 519: MATHEMATICS FOR AGRICULTURAL ECONOMICS** **2 Credit**

Introductory Mathematical Concepts: Notation, Variables, Constants & Parameters, Number Systems, Set Algebra, Necessary & Sufficient Conditions f. Relations & Functions (Basic Properties; Limits; Continuity) Functions: Monotonicity, Inverse, Composite, Extreme Values, Secant Lines & Average Rate of Change, Concavity & Convexity, Frequently Used Functions such as Polynomials, Exponentials and Logs. Equilibrium Analysis: Solving Systems of Equations (Repeated Substitution;. Adding and Subtracting Equations; Gaussian Elimination), Comparative Statics. Matrix Algebra. Univariate Differential Calculus; Multivariate Differential Calculus. Unconstrained Optimization of Univariate Functions: First-Order Condition & Stationary Points, Second-Order Conditions. Unconstrained Optimization of Multivariate Functions: First-Order Conditions, positive & Negative Definite Matrices, Positive & Negative Semi-definite Matrices, Second Order-Conditions. Constrained Optimization. Integral Calculus.

**AGRE 538: SOCIAL PSYCHOLOGY** **3 Credits**

Meaning of Psychology, branches of psychology. Nature of Social and educational Psychology; Concept of Human mental development; Personality development, patterns of personality, childhood personality development and factors. Adulthood personality development and factors. Intelligence, Intelligence theory, implications for Agricultural extension and rural development; attitude and its implications for extension, measurement of attitude.

**AGRE 521: QUANTITATIVE TECHNIQUES IN AGRICULTURE** **2 Credit**

Decision analysis with reference to agricultural investment; linear and non-linear programming and their application in farm management decision; transportation models and assignment problems as applied to agribusiness; inventory control and costs; critical path analysis and investment decisions in agricultural operations; game theory and decision making in agricultural adjustments and changes in technology, stochastic programming and data envelopment analysis, queue theory, inventory management.

**AGRE 536: LEADERSHIP AND CHANGE MANAGEMENT IN AGRIBUSINESS** **2 Credit**

Public policies affecting agribusiness. Stakeholders of agribusiness. Writing a business plan. Introduction to leadership: function, characteristics and types. Leadership dynamics. Management and leadership concepts and meaning. Performing team: high performance, factors affecting performance. Conflict management. Project management: concept and definition. Change management: coalition in team work, development and communication of leadership vision. Resistance and barrier to change. Case study

**AGRY 501: ORNAMENTAL HORTICULTURE 2 Credits**

The fundamentals of Ornamental Horticulture has its roots in the Bible (Isaiah 5: 7) where it was discovered that the Lord Himself had pleasant plans like our present day ornamental plants. This is the basis for the cultivation and study of these plants. Topics to be addressed in this course include nature, scope and historical development of ornamental horticulture. . Techniques of the production, use and handling of ornamental plants (bulbs, roses, pot plants, bedding plants annuals, hedge materials climbers). Lawn culture, site preparation, selection of suitable grasses for different lawn. Management, selection, cultivation, propagation and processing of tropical vegetables, fruits, tree and shrub plants for different purposes. Ecological distribution of exotic and indigenous fruits and vegetables in Nigeria: Principles *Irvingia gabonensis*, *chrysophyllum albidum*, Passion fruit, guava, cashew. Vegetable; *Amaranthus*, okra, onion, *Telfaria occidentalis*, *chorchorusolitorus*, lettuce, cabbage, cucumber, carrot. Horticultural machines and equipment.

**AGRY 502: SEED PRODUCTION AND CERTIFICATION 2 Credits**

Seed Industry. Seed program development in Nigeria. Components of Seed Quality. Pathway of Seed Improvement. Field Inspection and Seed Certification. Seed Processing, Treatment and Packaging. Seed Storage. Seed Marketing and Distribution.

**AGRY 503: PLANT BREEDING 3 Credits**

Principles of plant breeding. Environment and heredity. Lethal genes and their control Breeding systems (in breeding, out breeding, etc.) and associated terms. Breeding methods and procedures in self and cross pollinated crops. Role of plant breeding in pest and disease control in crops. Germ plasm resources; evaluation and utilization of major crops grown in Nigeria. Elements of breeding in the Bible (Gen 1:22, Gen 30:30-41). Biotechnology in Plant Breeding

**AGRY 504: PASTURE AND FORAGE MANAGEMENT 2 Credits**

Principles of grassland husbandry: botany, identification and propagation of indigenous and introduced pasture and forage plants in Nigeria; Physiology and importance of regrowth; concepts of efficiency in primary and secondary production and factors affecting them; factors affecting the nutritive values of forage and forage intake; dry season feeds; pasture and rangeland research methods.

**AGRY 505: IRRIGATION AND AGRONOMY 2 Credits**

Soil - water - plant - atmosphere relations. Water balance and methods of assessing water requirements of crops. Water use pattern of some crops and their critical growth stages for water. Water use efficiency and water economy. Crop Performance under Irrigated condition.

**AGRY 506 PHYSIOLOGY OF CROP GROWTH AND CROP YIELD II 3 Credits**

Inorganic components of plants. Sources of plant nutrition; metabolism of nutrient elements. The physiology of stomata, water stress and drought. Plant hormones and their potential use in Agriculture. Photorespiration;  $C_3$  and  $C_4$  pathways, crassulacean acid metabolism; nitrogen metabolism; secondary metabolism in plants and their products; chemical ecology. Introduction to measurement and control of the environment for improved crop performance.

#### **AGRY 507: SOIL MANAGEMENT AND CONSERVATION                      2 Credits**

Concepts of soil management and conservation – restoration of degraded soils – relevant cultural/agronomic method of achieving the two concepts viz bush clearing, methods – firing the bush or cutting the vegetation and plowing – under or leaving the trash as mulch cropping system. Tillage system – conventional e.g minimum tillage as related to even inherent soil organic matter maintenance and increase in the organic matter.

Soil degradation/loss in soil quality – through soil abuse deforestation without reforestation activity frequent conventional tillage operation disrupts soil structure to induce soil erosion – deployment of relevant cultural practices – cropping, pattern frequent returns of organic residue into the soil – ridging across the slope are conservation methods deployable.

Soil acidity via continuous application of acidic former N fertilizer of sulphate of ammonia – zero return of organic matter into the soil resulting from bush burning which depletes soil of organic colloids and leaching of bases (cause of soil acidity) – liming a crucial for restoration of acid soil to productivity soil erosion. Management water – induced of salt – degraded soil – saline sodic soil. Drainage definition as a soil degradation factor – induced through deployment of heavy tillage machineries – heavy plow and soil compaction by David Brown plow. Massey Ferguson plow less compactions and less drainage problem.

#### **AGRY 508: SOIL MICROBIOLOGY    2 Credits**

Classification of microorganism based (i) on origin plant (flora) and animal (fauna), source of energy to the organism – (ii) Organic substrate e.g Organic matter heterotrophs (iii) Inorganic substrate e.g  $NH_4Cl^+$  Autotrophs, requirement for molecular oxygen (Aerobes), anaerobes deriving energy from reduction of oxygen in water logged and soil with poor drainage and facultative organisms capable of transmitting from anaerobic to aerobic activities. Fungigenous and autochthonous organisms.

Roles of soil organisms on organic matter recycling and mineralization and Biological  $N_2$  fixation, detoxification of pollutants – Methods of estimation of microbial population e.g plate count (indirect) budding of nutrient Agar.

Coated slides

Culturing of flora population on various artificial media – for fungi potatoes dextrose Agar for bacteria – nutrient Agar, mercurial yeast extract Agar ( laboratory practical). Ecological interrelationships. Symbiosis, (Rhizobium/Mycorrhiza/Fungi – predation. Nematode predating rhizobia.

#### **AGRY 509: FIELD EXPERIMENTATION FOR AGRONOMY                      2 Credits**

Principles of field experimentation in crop and soil sciences. Research methodology; experimental layout, field survey; normal distribution and sampling, Data Collection and Data Management, Data Analysis using selected tools (EXCEL, SPSS, SAS), Results Interpretation and Report Writing.

**AGRY 510: LANDSCAPE DESIGN AND CONSTRUCTION      2 Credits**

The concept of designing and construction of the landscape started long ago in the Bible age John 15:1 and Isaiah 51:3; where Jesus acknowledged Himself as the true vine and His father (God) as the vinedresser. This is the whole idea behind our present day Landscape Design and Construction. The Lord also promised to make the desert of Zion the garden of the Lord; which is what we do in Landscape design. Topics under this course include methods of site clearing and site shaping prior to landscaping. Principles of selecting construction materials (types of landscape material, factors influencing choices of construction material and advantages & disadvantages of construction material), Costing of landscape material. Methods of draining and irrigating construction site. Methods of setting out and planting in landscape plan and methods of constructing land features. Landscape Design process. Materials and Equipment in Landscape design, costing landscape design and Practical skills in Landscape design.

**ANSC 511: MONOGASTRIC AND RUMINANT ANIMAL NUTRITION      3 Credits**

Principles of monogastric nutrition, elements of human nutrition; dietary allowances, food surveys, food balance sheets; feeding standards; nutrient requirements for the various classes of animals; feed additives. Water in relation to nutrition. Metabolic water computation and ration formulation.

The structure of the Feed Industry. Feed evaluation, feed mixing and feed manufacture on large scale. Influence of processing on acceptability of feeds. Regulation governing the manufacture and distribution of livestock feeds. Feed formulation. Storage and quality control of feedstuffs and foods. Accountability must be our moral.

Microbiology of the rumen; physiology of rumen action; metabolic processing pathways; non-protein nitrogen utilization; determination of digestion balance trials; systems for energy evaluation, schemes for protein values; water in relation to nutrient and metabolism; requirements and their interrelationships in nutrition; feed additives, proximate analysis; ration formulation; nutritional disorders.

**ANSC 504: MONOGASTRIC (SWINE AND RABBIT) PRODUCTION      2 Credits**

**Swine Production:-** types and feeds of Swine, swine characteristics as they affect production. Requirements for sitting a pig farm. Selection and development of foundation stock. General types of pig production enterprise. Swine production systems. Housing requirements for swine production; System of breeding in swine production. Breeding management practices and record keeping. Common disease of swine and their control. Feeds and feeding requirements for successful swine production including feed processing and the role of pasture feeding. Marketing of swine and pork products.

**Rabbit Production: -** The roles of rabbits in meat production. Breeds of rabbits in commercial production. Rabbit production systems. Housing requirements for rabbits. Reproduction in

rabbits. Management practices in rabbit production, feeding requirements in rabbit production. Diseases of rabbits and control.

**ANSC 505: BIOTECHNOLOGY APPLICATIONS IN AGRICULTURE 2 Credits**

Nature of Chromosomes, DNA replication, modification and restriction. RNA synthesis and transcription; protein synthesis. DNA monitoring and repair. Regulation of gene expression. Mutation; Genetic engineering; cloning (gene cloning, molecular cloning) Gene fusion and fusion of proteins, polymerase chain reaction, mutagenesis. DNA sequencing, functional analysis of genomic DNA.

Applications of biotechnology in improvement of livestock, crops, fishery and forestry. Biotechnology started through God in Genesis 30:32 – 43.

**ANSC 506: ANIMAL BREEDING METHODS AND LIVESTOCK IMPROVEMENT  
3 Credits**

Statistical tools for studying inheritance. Genetic variance and covariance. Heritability and repeatability. Relationships, inbreeding and cross-breeding. Inbreeding depression and heterosis. Environment and heredity. Lethal genes and their control. Single and multi-trait selection methods. Breeding or mating systems. Measurement of genetic progress. Performance testing and livestock improvement methods or schemes. That men should multiply and be in control of the earth Gen 1 :22.

**ANSC 507: ANIMAL EXPERIMENTATION AND RESEARCH TECHNIQUES  
2 Credits**

Techniques and procedures in animal experimentation. Basic statistical designs in animal science research. Ethical considerations in animal science research. Integrity our promise.

**ANSC 508: BIOCLIMATOLOGY OF FARM ANIMALS (2 Credits)**

Climatic factors affecting farm animals; physical factors increasing heat load in farm animals; physiological and physical methods of heat loss; factors affecting feed and water intake, reproduction, growth, milk and egg production.

**ANSC 513: SEMINAR 1 Credits**

Seminar presentation by each student on area of specialization in Animal Science.

**ANSC 510: ANIMAL PRODUCTS AND PROCESSING 2 Credits**

Dairy microbiology and milk processing; livestock processing and preservation techniques; changes in animal products during preservation and storage. Carcass quality evaluation in livestock; egg quality and grading; milk hygiene; chemistry and nutritive value of meat, eggs and milk. Processing of animal by-products. Safety of animal products and relevance to human health. Livestock products as a public issue. Importance of food safety to consumers. Principles of infections and meat-borne disease and prevention. Chemical and antibiotic residues in meat. Common food poisoning organism. Egg contamination and spoilage. Food poisoning symptoms. Governmental agencies and food safety. Biochemistry of animal product.

**ANSC 515 HATCHERY TECHNOLOGIES AND MANAGEMENT 2 Credits**

Establishment of hatchery and layout of infrastructures. Management of breeders with particular reference to nutrition and health. Factors affecting fertility of eggs. Pre-incubation care of hatchable eggs. Incubation periods in poultry species. Incubator types and hatchery sanitation. Ventilation, temperature and humidity regulation in an incubator. Egg candling and turning. Embryonic development and mortality. Factors influencing hatchability of eggs. Sexing and marketing of chicks. Brooding and management of chicks. Hatchery waste management.

**ANSC 512: REPRODUCTIVE PHYSIOLOGY AND ARTIFICIAL INSEMINATION**  
**2 Credits**

Reproductive cycle. Physiology of sperm and ovum. Endocrinology of reproduction. Genetics and physiology. Pregnancy, fetal development, fertility and sterility. Role of Artificial Insemination (A.I.) in livestock production; Management of male donors; semen collection, evaluation, preservation and storage; artificial insemination techniques. Team spirit – our strength.

**ANSC 514: ANIMAL HEALTH AND DISEASES**  
**2 Credits**

Environmental factors in relation to diseases. Major diseases of farm livestock and their control. Causes of diseases in livestock enterprise. Principles of immunity livestock and disease resistance with their practical application. Disease control and other regulations. Vaccination and the underlining principles. Principle of Hygiene in livestock production. Animal handling principle. Public Health of animal disease and control. Christ is the ultimate healer and provider John 16: 23.

**ANSC 517: FEED MAUFACTURING AND FEED MILLING**  
**2 Credits**

Location of Feedmill and sourcing of raw materials. Microbiological and chemical hazards in feed production. Product evaluation and quality determination. Feed quality parameters. Materials weight determination and type of scales. Pest management in facilities. Environmental and public health implications of Feedmill location. Regulatory controls and biosecurity. Factors affecting feed processing and quality. Basic structure of feed mills. Feedmill machineries. Power management and capacity and electrical designs. Safety precautions in Feedmill management. Principle of materials handling, grinding, mixing and pelleting and other operations. Principles of instrumentation and analysis in relation to quality control and research in the feed industry. Plant layout and design of different capacity of feed mills. Record keeping. Extrusion feed technology and application.

**AGRI 599: RESEARCH PROJECT**  
**6 Credits**

Each student is required to conduct research into an approved agricultural production problem culminating in the submission of a thesis/dissertation, under the guidance of a supervisor. Each student is also expected to prepare and deliver a seminar, which, in addition to the project report constitute the final grade.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**  
**3 Credits**

Capstone in Agriculture: A study of biblical principles as it relates to agriculture and farming. Sustainable management of personal and corporate resources as exemplified in the instruction given to the first family (Adam and Eve) and the order in life. Project planning, appraisal and

accountability as it corroborates Jesus Christ teachings and parables. Poverty alleviation strategies as it centres on Gods relationship with man. Dignity in labour and remuneration for use of labour, consumption and production theories. Social welfare theories as aligned with welfare principles of the apostolic church (pre and post Pentecost).

## **DEPARTMENT OF BASIC SCIENCES**



Foluke O. I. ODUTAYO, PhD  
*Head of Department*

### **ACADEMIC STAFF**

- |                              |  |
|------------------------------|--|
| 2. Foluke O. I. ODUTAYO, PhD | Senior Lecturer, Genetics, Biotechnology & Plant Science             |
| 3. K. Olusola OGUNWENMO, PhD | Professor of Molecular Biology, Cytogenetics & Environmental Science |
| 4. Joseph F. ADELODUN, PhD   | Professor of Pure Mathematics  |
| 5. *Isaac O. OYEWOLE, PhD    | Professor of Molecular Biology & Parasitology                        |
| 6. Adebayo O. ONIGBINDE, PhD | Professor of Analytical Chemistry                                    |
| 7. Adesina K. ADIO, PhD      | Senior Lecturer, Industrial Mathematics                              |
| 8. Richmond U. KANU, PhD     | Senior Lecturer, Functional Analysis                                 |

9. Abimbola O. ALESHINLOYE, PhD	Lecturer I, Organic Chemistry
10. Digbo IDIKA I. PhD	Lecturer I, Analytical Chemistry
11. Ayodele, OGUNNOWO, MSc	Lecturer I, Chemistry
12. Semiu A. AYINDE, MSc	Lecturer I, Topological Vector Space
13. Daniel O. KEHINDE, MSc	Lecturer I, Atmospheric Physics
14. Aderike G. ADEWUMI, PhD	Lecturer II, Biosystematics & Environmental Science
15. Olabode O. BAMISILE, MSc	Lecturer II, Mathematics
16. David O. JEGEDE, MSc	Assistant Lecturer, Analytical Chemistry
17. Babatunde T. AKANBI, MSc	Assistant Lecturer, Applied Optional Mathematics
18. Abayomi E. OPADELE, MSc	Assistant Lecturer, Medical Physics
19. Olufisayo O. AWE MSc	Assistant Lecturer, Physics/Electronics
20. Faith OMOLE MSc	Assistant Lecturer, Animal Science
21. Oluwatosin S. SHOKUNBI, BSc	Graduate Assistant, Analytical Chemistry

### **Technical Staff**

- Feyisara B. ADARAMOLA, M.Sc. Principal Lab Technologist (Analytical Chemistry)
- Faith U. NWADIKE, MLT Principal Lab Technologist (Biology)
- Oyeleye O. ABIOYE, ND Senior Lab Technician
- Leah B. ADEKOLA, ND Senior Lab Technician

### **Administrative Staff**

- Miss Odunsi Oluwafunmilayo C. BSc (Ed) Confidential Secretary II

\*Leave of absence

### **VISION STATEMENT**

Providing sound scientists for the benefit of humanity.

### **MISSION STATEMENT**

The mission of the Department, which as of now, consists of Biology, Molecular Biology and Biotechnology, and Ecotoxicology and Environmental Management, Chemistry, Mathematics and Physics with Electronics is to instill in students and equip them with a broad and balanced foundation in the Sciences to enable them carry out further studies in the Sciences and other disciplines that are scientifically related; use their knowledge and skills in solving a wide range of theoretical and practical problems in other disciplines. It is expected that the knowledge gained will be such to enable them conduct researches needed to solve societal needs.

### **PHILOSOPHY OF THE DEPARTMENT**

Our philosophy derives from the Adventist ethos of education of training a new generation of original thinkers than mere carriers of other people's thoughts. Thus, our approach to scientific training is holistic harnessing the intellectual, social, physical and spiritual powers of the individual for innovative skills in biotechnology with sound ethics and environmental awareness.



The Department is poised to instill in students a sense of enthusiasm for the Sciences, and an appreciation of its application in different areas and to involve in stimulating, satisfying experience of learning and studying. To provide students a broad and balanced foundation in scientific and practical knowledge in sciences. The Department also has the aim of developing in students the ability to apply scientific knowledge and skills to the solution of theoretical and practical problems in life, provide a range of transferable skills of value in the sciences, and provide sufficient background to enable the students do further studies in specialized areas of sciences or other disciplines involving sciences.

## **OBJECTIVES**

The courses offered by the Department is designed to provide students with a variety of skills needed to survive and succeed in the high technological environment in the church, industry and general society.

Through projects involving real life applications, our students will be made to have a broad background of knowledge which will enable them to contribute to the growth of the church and the society in general.

## **ADMISSION REQUIREMENTS**

Prospective candidates for any programme in the Department must have 5 Ordinary Level Credits or equivalent in English Language, Mathematics and any other three relevant sciences courses like Biology, Chemistry, Technical Drawing, Agricultural Science, Geography and Physics (in not more than two sittings). In addition candidates must sit and pass UTME and Babcock University entrance (written and oral) examinations. Two of the 5 O'Level credits at A level in appropriate subjects are required for direct entry students.

## **GRADUATION REQUIREMENT**

Minimum number of semesters for graduation in this program is 8. All other conditions are in line with BU policy. The minimum credits requirement for B.Sc. is specified under each programme. The distribution of the minimum credit requirement is shown under each programme.

## **MINIMUM REQUIREMENT GRADUATION**

<b>BSc. Hons. BIOLOGY</b>				
<b>LEVEL</b>	<b>GEDS</b>	<b>CORE COURSES</b>	<b>ELECTIVE COURSES</b>	<b>TOTAL</b>
<b>100</b>	19	24	-	<b>43</b>
<b>200</b>	15	28	3	<b>46</b>
<b>300</b>	9	26	9	<b>44</b>
<b>400</b>	7	25	9	<b>41</b>
<b>TOTAL</b>	<b>50</b>	<b>103</b>	<b>21</b>	<b>174</b>
<b>BSc. BIOLOGY (MOLECULAR BIOLOGY AND BIOTECHNOLOGY)</b>				
<b>LEVEL</b>	<b>GEDS</b>	<b>CORE COURSES</b>	<b>ELECTIVE COURSES</b>	<b>TOTAL</b>
<b>100</b>	19	24	0	<b>43</b>
<b>200</b>	15	30	3	<b>48</b>

<b>300</b>	9	23	12	<b>44</b>
<b>400</b>	7	26	11	<b>44</b>
<b>TOTAL</b>	<b>50</b>	<b>103</b>	<b>26</b>	<b>179</b>
<b>BSc. BIOLOGY (ECOTOXICOLOGY AND ENVIRONMENTAL MANAGEMENT)</b>				
<b>LEVEL</b>	<b>GEDS</b>	<b>CORE COURSES</b>	<b>ELECTIVE COURSES</b>	<b>TOTAL</b>
<b>100</b>	19	30	0	<b>49</b>
<b>200</b>	15	27	3	<b>45</b>
<b>300</b>	9	26	6	<b>41</b>
<b>400</b>	7	34	6	<b>47</b>
<b>TOTAL</b>	<b>50</b>	<b>117</b>	<b>15</b>	<b>182</b>

#### **GRADUATION REQUIREMENT FOR CHEMISTRY**

<b>LEVEL</b>	<b>GEDS</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON-DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
<b>100</b>	19	24	-	<b>43</b>
<b>200</b>	17	26	3	<b>46</b>
<b>300</b>	7	34	3	<b>44</b>
<b>400</b>	7	33	-	<b>40</b>
<b>TOTAL</b>	<b>50</b>	<b>117</b>	<b>9</b>	<b>173</b>

#### **GRADUATION REQUIREMENT FOR MATHEMATICS**

<b>LEVEL</b>	<b>GEDS</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON-DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
<b>100</b>	19	26	-	<b>45</b>
<b>200</b>	17	27	3	<b>47</b>
<b>300</b>	7	36	3	<b>46</b>
<b>400</b>	7	39	-	<b>46</b>
<b>TOTAL</b>	<b>50</b>	<b>128</b>	<b>6</b>	<b>184</b>

#### **GRADUATION REQUIREMENT FOR PHYSICS/ELECTRONICS**

<b>LEVEL</b>	<b>GEDS</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON-DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
<b>100</b>	19	20	6	<b>45</b>
<b>200</b>	17	32	-	<b>49</b>
<b>300</b>	7	26	-	<b>33</b>
<b>400</b>	7	37	-	<b>44</b>
<b>TOTAL</b>	<b>50</b>	<b>115</b>	<b>6</b>	<b>171</b>

**B. Sc. (Hons.) BIOLOGY  
100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizen Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
CHEM 101	General Chemistry I	3	-

CHEM 102	General Chemistry II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
<b>TOTAL (43 Credits)</b>		<b>20</b>	<b>23</b>

**B.Sc. (Hons.) BIOLOGY  
200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001,002	Citizenship orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
	CORE COURSES		
BIOL 201	Genetics I	2	-
BIOL 208	Ecology I	-	2
BIOL 220	Plant and Animal Physiology I	-	2

BIOL 214	Biological Techniques	-	3
BIOL 206	Cell and Developmental Biology	-	2
BCHM 201	Foundations of Biochemistry I	3	-
BOTA 213	Plant Diversity I (Seedless Plants)	3	-
BOTA 214	Plant Diversity II (Seed Plants)	-	3
CHEM 213	Organic Chemistry I	3	-
STAT 204	Biostatistics	-	2
ZOOL 214	Animal Diversity I	-	3
	<b>ELECTIVE COURSES</b>		
BIOL 211	Cell Physiology	2	-
BCHM 202	Foundations of Biochemistry II	3	-
CHEM 244	Analytical Chemistry	-	3
CHEM 214	Organic Chemistry II	-	3
MBIO 201	General Microbiology I	3	-
	<b>TOTAL (47/48 Credits)</b>	<b>22/23</b>	<b>25</b>

**Student are expected to take one elective course in each semester**

**B.Sc. (Hons.) BIOLOGY  
300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management		2
GEDS 317	Religion and Social Ethics	3	-
GEDS 280	Leadership Skills	2	
	<b>CORE COURSES</b>		
BIOL 301	Genetics II	2	-
BIOL 360	Student Industrial Work Experience (SIWES)	-	3
BIOL 302	General Cytology	-	2
BIOL 304	Ecology II	-	3
BIOL 307	Molecular Biology	3	-
BIOL 308	Plant and Animal Physiology II	-	3

BOTA 311	Plant Taxonomy/Flowering Plants Systematics	3	-
MBBT 307	Biotechnology (Animal Microtechniques & Transgenics)	3	-
	<b>ELECTIVE COURSES</b>		
BIOL 303	Evolution I	3	-
BIOL 305	Environmental Conservation	3	
BIOL 306	Toxicology	-	2
BIOL 309	Introductory Nematology	2	-
ZOOL 301	Animal Diversity II (Chordates)	3	-
ZOOL 302	Entomology	-	2
ZOOL 314	Parasitology I	-	3
MBBT 309	Microbial Technology and Applied Microbiology	3	-
BOTA 308	Economic Botany	-	2
MBIO 311	Food Microbiology I	3	-
MBIO 316	Ecology of Microbes	-	3
MBIO 318	Fundamentals of Virology	-	3
MBIO 320	Microbiology and the Environment	-	3
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

Students are expected to take two elective courses in first semester and at least one elective course in second semester.

**B.Sc. (Hons.) BIOLOGY  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
GEDS 410	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
BIOL 401	Genetics III	2	-
BIOL 402	Developmental Biology	-	3
BIOL 403	Systematic Biology	3	-
BIOL 406	Cytogenetics	-	2
BIOL 419	Soil Chemistry and Ecology	3	-
BIOL 433	Seminar	2	-
BIOL 490	Research Project	-	6
BIOL 405	Advanced Biological Techniques	3	-
	<b>ELECTIVES COURSES</b>		

BIOL 408	Human Genetics and Genomics	-	3
BIOL 404	Population Ecology and Biogeography	-	3
BIOL 415	Forensic Biology	3	-
BIOL 416	Marine Biology	-	2
BIOL 418	Hydrobiology	-	2
BIOL 420	Comparative Virology	-	2
BOTA 411	Plant Science and Environmental Pollution	2	-
MBBT 425	Bioinformatics and Sequence Analysis	2	-
ZOOL 414	Parasitology II	-	3
MBIO 402	Industrial Microbiology	-	3
	<b>TOTAL (40 Credits)</b>	<b>18</b>	<b>22</b>

Students are expected to take at least one elective course in first semester and at least two elective courses in second semester.

**BSc. BIOLOGY**  
**MOLECULAR BIOLOGY AND BIOTECHNOLOGY**  
**100 LEVEL**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001,002	Citizen Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3

PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
	<b>TOTAL (43 Credits)</b>	<b>20</b>	<b>23</b>

**MOLECULAR BIOLOGY AND BIOTECHNOLOGY  
200 LEVEL**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001,002	Citizenship orientation	S/U	S/U
GEDS 200	Communication in French	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
MBBT 201	Fundamentals of Genetics	3	-
BIOL 208	Ecology I	-	2
BIOL 220	Plant and Animal Physiology I	-	2
MBBT 204	Biotechnology Techniques I	-	3
MBBT 206	Molecular Cell and Developmental Biology	-	2
BOTA 213	Plant Diversity I (Seedless Plants)	3	-



BOTA 214	Plant Diversity II (Seed Plants)	-	3
BCHM 201	Foundations of Biochemistry I	3	-
CHEM 213	Organic Chemistry I	3	-
MBBT 203	Biotechnology I	2	-
STAT 204	Biostatistics	-	2
ZOOL 214	Animal Diversity I	-	3
	<b>ELECTIVE COURSES</b>		
BIOL 211	Cell Physiology	2	
BCHM 202	Foundations of Biochemistry II	-	3
CHEM 214	Organic Chemistry II	-	3
CHEM 244	Analytical Chemistry	-	3
MBIO 201	General Microbiology I	3	-
	<b>TOTAL (51/52 Credits)</b>	<b>25/26</b>	<b>26</b>

**Students are expected to take one elective course per semester**

### **MOLECULAR BIOLOGY AND BIOTECHNOLOGY 300 LEVEL**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001,002	Citizenship Orientation	0	0
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
GEDS 310	E-Customer Relationship Management	-	2
GEDS 280	Leadership Skills	2	-
	<b>CORE COURSES</b>		
BIOL 301	Genetics II	2	-
BIOL 304	Ecology II	-	3
BIOL 307	Molecular Biology	2	-
BIOL 308	Plant and Animal Physiology II	-	3
MBBT 307	Biotechnology II (Animal Micro-techniques and Transgenics)	3	-
MBBT 360	Student Industrial Work Experience	-	6
MBBT 309	Microbial Technology and Applied Microbiology	3	-

	<b>ELECTIVE COURSES</b>		
BIOL 302	General Cytology	-	2
BIOL 303	Evolution I	3	-
BIOL 305	Environmental Conservation	3	
BIOL 306	Toxicology	-	2
BIOL 309	Introductory Nematology	2	-
BCHM 307	Metabolism of Nucleic Acids	2	-
BCHM 321	Instrumental Biochemistry	3	-
BCHM 315	Introduction to Enzymology	2	-
BCHM 325	Metabolism of Amino Acids and Proteins	2	-
MBIO 311	Food Microbiology I	3	-
MBIO 316	Ecology of Microbes	-	3
MBIO 318	Fundamentals of Virology	-	3
MBIO 320	Microbiology and the Environment	-	3
ZOOL 302	Entomology	-	2
ZOOL 301	Animal Diversity II (Chordates)	3	-
	<b>TOTAL (39/43 Credits)</b>	<b>19/21</b>	<b>20/22</b>

Students are expected to take at least two elective courses per semester.

**BSC. MOLECULAR BIOLOGY AND BIOTECHNOLOGY  
400 LEVEL**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 410	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE/REQUIRED COURSES</b>		
MBBT 423	Biotechnology Techniques II	3	-
MBBT 424	Industrial Biotechnology	-	3
MBBT 425	Bioinformatics and Nucleotide Sequence Analysis	2	-
MBBT 428	Biosafety, Bioethics and Intellectual Property Rights	-	2
MBBT 433	Seminar	2	-
MBBT 490	Research Project	-	6
BIOL 401	Genetics III	2	-
MBBT 431	Molecular Systematics Biology	3	-
BIOL 406	Cytogenetics	-	2
	<b>ELECTIVE COURSES</b>		
BIOL 408	Human Genetics and Genomics	-	3

MBBT 417	Bioresources Management	3	-
MBBT 408	Process Biotechnology	-	2
MBBT 429	Metabolic Engineering	2	-
MBBT 427	Plant Gene Transfer	2	-
BIOL 419	Soil Chemistry and Ecology	3	-
BIOL 415	Forensic Biology	3	-
BIOL 421	Biology of Cancer	2	-
BIOL 420	Comparative Virology	-	2
MBBT 410	Biotechnology of Animal Reproduction	-	2
MBBT 411	Biotechnology Robotics	3	-
MBIO 415	Microbial Analyses and Quality Control	3	-
	<b>TOTAL (43 Credits)</b>	<b>20</b>	<b>23</b>

Students are expected to take two elective courses per semester.

**BSC. BIOLOGY**  
**ECOTOXICOLOGY AND ENVIRONMENTAL MANAGEMENT OPTION**  
**100 LEVEL**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001,002	Citizen Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3

PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
BSAD 101	Principles of Management I	3	-
BSAD 102	Principles of Management II	-	3
	<b>TOTAL (49 Credits)</b>	<b>23</b>	<b>26</b>

**ECOTOXICOLOGY AND ENVIRONMENTAL MANAGEMENT  
200 LEVEL**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
EVMT 201	Principles and Methods in Environ. Sc. and Analysis	3	-
EVMT 202	Environment, Ecosystem and Man	-	2
BIOL 220	Plant and Animal Physiology I	-	2
BCHM 201	Foundations of Biochemistry I	3	-
CHEM 213	Organic Chemistry I	3	-
CHEM 233	Physical Chemistry I	3	-
INSY 314	Management Information Systems	-	3

BSAD 202	Management Theory	-	3
STAT 204	Biostatistics	-	2
MBIO 201	General Microbiology I	3	-
	<b>ELECTIVE COURSES</b>		
EVMT 203	Elements of Hydrology	2	-
EVMT 204	Introduction to Climatology and Biogeography	-	2
EVMT 206	Oceanography	-	2
BOTA 213	Plant Diversity I (Seedless Plants)	3	-
BOTA 214	Plant Diversity II (Seed Plants)	-	3
ZOOL 214	Animal Diversity I	-	3
BCHM 202	Foundations of Biochemistry II	-	3
EVMT 208	Fundamentals of Supply and Chain Management I	-	2
CHEM 201	Inorganic Chemistry I	3	-
	<b>TOTAL (48 Credits)</b>	<b>25</b>	<b>23</b>

**Students are expected to take at least one elective course per semester.**

### ECOTOXICOLOGY AND ENVIRONMENTAL MANAGEMENT 300 LEVEL

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>st</sup>	2 <sup>nd</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	2	-
GEDS 317	Religion and Social Ethics	3	-
GEDS 280	Leadership Skills	2	-
	<b>CORE COURSES</b>		
EVMT 301	Principles of Natural Resources Management	2	-
EVMT 304	Hazardous Substances Management	-	3
EVMT 305	Metals and the Environment	2	-
EVMT 306	Environmental Assessment Techniques and GIS	-	3
EVMT 360	Students Industrial Work Experience (SIWES)	-	6
EVMT 307	Environmental Pollution	2	-
EVMT 308	Environment aspects of Pesticides and other Toxicants usage	-	3
EVMT 311	Project development and Management	3	-
EVMT 312	Energy and the Environment	-	2

	<b>ELECTIVE COURSES</b>		
EVMT 309	Remote sensing Techniques	3	-
EVMT 313	Fundamentals of Supply and Chain Management II	2	-
BIOL 305	Environmental Conservation	3	-
CHEM 325	Environmental Chemistry	3	-
MBBT 309	Microbial Technology and Applied Microbiology	3	
MBIO 316	Ecology of Microbes	-	3
MBIO 320	Microbiology and the Environment	3	-
ZOOL 301	Animal Diversity II (Chordates)	2	-
ZOOL 310	Animal Conservation and Biodiversity	-	2
	<b>TOTAL (43/46 Credits)</b>	<b>19/22</b>	<b>24</b>

Students are expected to take at least one elective course per semester.

**ECOTOXICOLOGY AND ENVIRONMENTAL MANAGEMENT  
400 LEVEL**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1ST</b>	<b>2<sup>ND</sup></b>
GEDS 001	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurship Skills	2	-
GEDS 410	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
EVMT 401	Environmental Monitoring System and Techniques	3	-
EVMT 403	Environmental Law	2	-
EVMT 406	Waste Management	-	3
EVMT 411	Environmental Toxicology I	3	-
EVMT 412	Environmental Toxicology II	-	3
EVMT 433	Seminar	2	-
EVMT 490	Research Project	-	6
EVMT 405	Environmental Education, Ecological Disasters & Control	3	-
BIOL 419	Soil Chemistry and Ecology	3	-
EVMT 410	Petroleum and Environment	-	2

MBBT 417	Bioresources Management	3	-
EVMT 413	Experimental Pesticide Chemistry and Residue	2	-
	<b>ELECTIVE COURSES</b>		
EVMT 408	Wildlife Ecology, Conservation and Management	-	3
MBBT 428	Biosafety, Bioethics and Intellectual Property Rights	-	2
EVMT 414	Water resources of Nigeria	-	2
EVMT 415	Forest and Wildlife Policy, Law and Administration	2	-
EVMT 417	Biodiversity Conservation and Management	2	-
EVMT 419	Principles of Recreation and Ecotourism	2	-
EVMT 420	Natural Resources Conservation and Environmental Management	-	2
BIOL 404	Population Ecology and Biogeography	-	3
BOTA 406	Economic Plants	-	3
BOTA 411	Plant Science and Environmental Pollution	2	-
MBIO 411	Petroleum Microbiology	3	-
MBIO 415	Microbial Analyses and Quality Control	3	-
	<b>TOTAL (46/48 Credits)</b>	<b>25/26</b>	<b>21/22</b>

Students are expected to take one elective course per semester.

**B.Sc. (Hons) BIOLOGY AND OPTIONS IN:  
MOLECULAR BIOLOGY AND BIOTECHNOLOGY,  
ECOTOXICOLOGY AND ENVIRONMENTAL MANAGEMENT  
COURSE DESCRIPTIONS**

**BIOL 101: GENERAL BIOLOGY I** **L:1, P:1, T:1** **3 Credits**

Activities of living things. Basic cell types: Prokaryotic and Eukaryotic cells. Cell structure and organization. Function of cellular organelles. Mitosis, Meiosis and heredity. Characteristics and classification of living things. Reproduction. Interrelationship among organisms. Relationship between structure and function. *Intelligent designs (ID) in nature and creation*. Prerequisite: O'Level Biology or equivalent.

**BIOL 102: GENERAL BIOLOGY II** **L:1, P:1, T:1** **3 Credits**

A generalized survey of plant and animal kingdom based on their major characteristics, similarities and differences in structure and function of each group. Overview of diversity of life. Plants - Bacteria, Fungi, Algae, Lichens, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms. Acellular and multicellular animals - Protozoa, Coelenterates, Acoelomate animals (Platyhelminthes), Nematode, Mollusca, Arthropods, Echinodermata, Chordates. Ecological adaptations of these forms. Origin of life, heredity and evolution. *Brief but critical overview of creation and intelligent designs (ID) in nature*. Pre-requisite: BIOL 101.

**CHEM 101: GENERAL CHEMISTRY I****L:1, P:1, T:1****3 Credits**

Course taken at the department of Basic and Applied Sciences would include an introduction to atomic structure, Development of electronic configuration of the elements. Stoichiometry and mole concept. The periodic classification of the elements. General study of one or two representative elements of groups in the periodic tables with emphasis on similarities and differences based on position of the elements. Radioactivity and its applications. Structure of solids.

**CHEM 102: GENERAL CHEMISTRY II****L:2; P:1 T:1****3 Credits**

Fundamental chemical Course taken at the department of Basic and Applied Sciences would include principles: the gas law, kinetic theory of gases, Raoult's laws, Henry's law and molar determination. Thermo chemistry, chemical equilibrium, law of mass action, reaction rate and chemical energetic. Electrochemistry. Ionic. equilibrium. Theory of acids, bases and indicators. Phase equilibrium study of one and two components systems.

**PHYS 101: GENERAL PHYSICS I****L:2; P:1 T:1****3 Credits****"PHYS101\: General Physics I L\3; P\1 3 Credits"**

Space and time, frame of reference, units, measurements and dimensions. Vectors, kinematics, velocity and acceleration. Forces, mass and acceleration forces acting on a particle, and on a system of particles, statics of rigid bodies. Momentum. Integration of equations of motion. Motion along a curved path, simple harmonic motion. Energies of particles. System of particles. Angular momentum. Gravitation. Fluid statics and fluid dynamics. Gases and thermal motion. Heat. Zeroth law. First and second laws of thermodynamics, Entropy. Elasticity, Hooke's law, Young modulus, machines.

tc "Space and time, frame of reference, units, measurements and dimensions. Vectors, kinematics, velocity and acceleration. Forces, mass and acceleration forces acting on a particle, and on a system of particles, statics of rigid bodies. Momentum. Integration of equations of motion. Motion along a curved path, simple harmonic motion. Energies of particles. System of particles. Angular momentum. Gravitation. Fluid statics and fluid dynamics. Gases and thermal motion. Heat. Zeroth law. First and second laws of thermodynamics, Entropy. Elasticity, Hooke's law, Young modulus, machines."tc ""

**PHYS 102: GENERAL PHYSICS II****L:2; P:1 T:1****3 Credits****"PHYS102\: General Physics II L\3; P\1 3 Credits"**

Sound waves, electromagnetic waves. Waves and their phenomena: interference, Diffraction, Reflection, Refraction and Polarization. Geometrical optics. Electrostatics. Electric charges and fields. Gauss's law. Electric potential. Conductors and dielectrics in electrostatics, Capacitors electric current and resistance. Electric circuits. The forces exerted by a magnetic field. Magnetic fields produced by steady current. Magnetic properties of matter. Maxwell's equations. Electromagnetic oscillations and waves, applications. Elementary modern physics, Bohr's Theory, Photoelectric effect. De Broglie equation and elementary semiconductor physics. Alternate current.

**MATH 101: GENERAL MATHEMATICS I****L:2; P:1 T:1****3 Credits**

Elementary set theory, subsets, union, intersection, complements, Venn diagrams, real numbers, integers, rational and irrational numbers, mathematical induction, real sequences and series



theory of quadratic equations, binomial theorem. De Moiré's theorem, nth roots of unity. Circular measure, trigonometric functions of angles of any magnitude, additional and factor formulae. Prerequisite: O'level Mathematics or equivalent.

**MATH 102: GENERAL MATHEMATICS II**                      **L:2; P:1 T:1**                      **3 Credits**

Function of real variable, graphs, limits and idea of continuity. The derivatives, as limit of rate of change. Techniques of differentiation. Extrema curve sketching: Integration as an inverse of differentiation. Methods of integration. Define integrals; Application to areas, volume.

**BIOL 201: GENETICS I**                      **L:1, P:0, T:1**                      **2Credits**

Introduction to Genetics, the physical basis of heredity, cell division and Reproduction - Gametogenesis. Historical background of Genetics. Mendelism - Heritable and non-heritable characteristics, Monohybrid inheritance. Dihybrid inheritance - complete, incomplete and co-dominance. Deviation from Mendel's Inheritance. Genetic Interaction - Epistasis. Probability and Tests of Goodness of fit. Linkage, Crossing over and Genetic mapping. Multiple Alleles and Blood Group Inheritance. Sex determination and Inheritance. Pedigree Analysis. Quantitative inheritance. Source and applications of variation in genome structure. Extranuclear polygenic inheritance. Introduction to population genetics. *Inheritable characteristics and DNA complexity as evidence of ID in nature and perfection in creation*. Pre-requisite: BIOL 101 &102.

**BIOL 206: CELL AND DEVELOPMENTAL BIOLOGY**                      **L:1, P:0, T:1**                      **2 Credits**

Cell. Prokaryotic and Eukaryotic cell. History and present trends in cell Biology. Methods and equipment for studying cell and use of different types of microscopes. Molecules of the cell – Structure, storage and function of Water, Carbohydrate, Lipid, Nucleic acid and Protein. Structure and function of the cell and its organelles – Protein sorting and Transport, Respiration (Bioenergetics) and Photosynthesis (Metabolism), Cytoskeleton and Cell movement, Plasma membrane, Cell wall, Extracellular matrix and cell interactions, Cell Signaling. Reproduction - Cell division, differentiation and growth. A brief study of the molecular basis of cell structure, function and development (Transcription, Translation, Gene expression, Regulation and Repairs, the genetic code and its relationship to cellular function). *Specificity, regulation and repairs of genetic systems and mechanisms as evidence of ID in nature and creation*. Pre-requisites: BIOL 101, 102.

**BIOL 208: ECOLOGY I**                      **L:1, P:1, T:1**                      **2 Credits**

Ecosystem and community structure. Ecological classification of habitat types, terrestrial and aquatic biomass. Ecological factors (biotic and abiotic) affecting plants and animals in terrestrial and aquatic habitats. Major terrestrial ecosystems, productivity. Success of community interactions and their natural destruction factors. Natural cycles. Population dynamics. Adaptations of living organism to their environment. Human influence on ecosystems and effects on habitats. *The Garden of Eden as a perfect model of a balanced environment before sin. Restoration of our ecosystem to perfect pre-sin Eden-type*. Pre-requisites: BIOL 101, 102.

**BIOL 220: PLANT AND ANIMAL PHYSIOLOGY I**                      **L:1, P:0, T:1**                      **2 Credits**

Physical and Chemical processes in basic plants and animal physiology, exchange of materials across cell membrane. Fundamental principles of respiration, photosynthesis, transportation or circulation, Plant water relation. Reproduction, germination, growth and growth regulation –

hormones and enzymology. *Evidence of Irreducible Complexity (IC) of molecular machines contrary to Darwinian synthesis of gradual long-period blind evolution.* Pre-requisites: BIOL 101, 102.

**BIOL 211: CELL PHYSIOLOGY**

**L:2, P:0, T:1**

**2 Credits**

Physiochemical properties of the cell, exchange of materials across the cell membrane. Conversion of energy and matter in the cell metabolic pathways. *Irreducible complexity (IC) of molecular machines in cells.* Pre-requisites: BIOL 210.

**BIOL 214: BIOLOGICAL TECHNIQUES**

**L:0; P:3, T:0**

**3 Credits**

Preparation of microscope slides, biological drawings, microtomy, calorimetry, photometry, cytological techniques, chromatography, collection and preservation of biological specimens. Herbarium techniques. Aspects of genetics and cell biology and biotechnology techniques - Blood group test, Genotype test, PTC test, normal and abnormal human characters and frequencies. *Students identify evidence of ID in nature particularly at microscopic level.* Pre-requisites: BIOL 101, 102, 201, 206, 208.

**MBBT 201: FUNDAMENTALS OF GENETICS**

**L:1P:0 T:1**

**3 Credits**

Molecular approach to Genetics, the physical basis of heredity, cell division and Reproduction - Gametogenesis. Historical background of Genetics. Mendelism - Heritable and non-heritable characteristics, Monohybrid inheritance. Dihybrid inheritance - complete, incomplete and co-dominance. Deviation from Mendel's Inheritance. Genetic Interaction - Epistasis. Probability and Tests of Goodness of fit. Linkage, Crossing over and Genetic mapping. Multiple Alleles and Blood Group Inheritance. Sex determination and Inheritance. Pedigree Analysis. Quantitative inheritance. Source and applications of variation in genome structure. Extranuclear polygenic inheritance. Introduction to population genetics. *Inheritable characteristics and DNA complexity as evidence of ID in nature and perfection in creation.* Pre-requisite: BIOL 101 &102.

**MBBT 203: BIOTECHNOLOGY I**

**L:1 P:0 T:1**

**2 Credits**

Historical developments. Principles and applications of biotechnology. Consideration and implications of molecular biology, genomics, gene transfer technology, transgenics in biotechnology including ethical and social dimensions. Historical development and application of Cell and Tissue Culture (for MBBT 214) – Totipotency of plant cells, Culture medium, Organ, Tissue explants, Cell and Protoplast cultures, Haploid cell culture, Callus Clone and Ramet formation. Application of Biotechnology to Agriculture, Human and Animal Health, Environmental Protection, Biodiversity, Industries – Agro-allied, Pharmaceuticals, Fermentation industries etc, Prospects and Problems of Biotechnology. *ID and perfection in natural systems and creation versus error in artificial systems.* Pre-requisites: BIOL 101, 102, 201, 206.

**MBBT 204: BIOTECHNOLOGY TECHNIQUES I**

**L:0 P:3 T:0 3 Credits**

Methods and techniques of organ, tissue explants, cell and protoplast cultures, haploid cell culture, callus, clone and ramet formation. Consideration of micropropagation and genetic engineering, biosensors, biochips, biofilms, bioreactors and biosurfactants, virus free plants, somaclonal variations, haploid plants, embryo rescue, somatic hybrids and cybrids, germsplasm, molecular markers, batch and continuous cultures. Other considerations - Cloning techniques: Cell, Gene, Microbial, Plant and Animal (Dolly sheep) cloning. Single cell protein. Bacterial cell

and Insect caterpillars as living protein factories. Gene Libraries and Gene Banks. Cell and tissue preparation. Basic biological, microbiological and biotechnological techniques. *ID and perfection in natural systems and creation versus error in artificial systems*. Pre-requisites: BIOL 201, 206, MBBT 201.

### **MBBT 206: MOLECULAR CELL AND DEVELOPMENTAL BIOLOGY**

**L:0:P:3 T:0 2 Credits**

Molecular approach to Cell and Developmental Biology Methods and equipment for studying cell and use of different types of microscopes. Molecules of the cell – Structure, storage and function of Water, Carbohydrate, Lipid, Nucleic acid and Protein. Structure and function of the cell and its organelles – Protein sorting and Transport, Respiration (Bioenergetics) and Photosynthesis (Metabolism), Cytoskeleton and Cell movement, Plasma membrane, Cell wall, Extracellular matrix and cell interactions, Cell Signaling. Reproduction - Cell division, differentiation and growth. A brief study of the molecular basis of cell structure, function and development (Transcription, Translation, Gene expression, Regulation and Repairs, the genetic code and its relationship to cellular function). *Specificity, regulation and repairs of genetic systems and mechanisms as evidence of ID in nature and creation*. Pre-requisites: BIOL 101, 102.

### **BOTA 213: PLANT DIVERSITY I (SEEDLESS PLANTS) L:1; P:1; T:1 3 Credits**

Classification, morphology and reproduction of representative members of viruses, bacteria, algae, fungi, bryophytes, pteridophytes including fossils. The life cycles of seedless plants, their importance such as bryophytes as indicator of atmospheric pollution. *Brief but critical overview of the order of creation in Genesis account and intelligent designs (ID) in nature diversity*. Pre-requisite: BIOL 102.

### **BOTA 214: PLANT DIVERSITY II (SEED PLANTS) L:1; P/T:1 2 Credits**

Morphology and reproduction of seed plants - Gymnosperms and Angiosperms. *Evaluation of Creation and micro-evolutionary theory versus macroevolution. ID in nature diversity*. Pre-requisite: BIOL 211.

### **BOTA 308: ECONOMIC BOTANY L:1, P:0, T:1 2 Credits**

A study of the Nigerian economic plants in the different vegetation zones of Nigeria (Swamp, forest, savanna, grassland and arid zones), their botany, cultivation and economic importance. Rare, endangered and lost economic plants of Nigeria, conservation methods/techniques to reverse the trend. Biodiversity convention Rio de Janeiro. Diversity and order of created plants in the book of Genesis, their use and prevalence in the Garden of Eden for a model human habitat. Pre-requisite: BOTA 211, 212.

### **ZOOL 214: ANIMAL DIVERSITY I (INVERTEBRATES) L:1; P:1 T:1 3 Credits**

A survey of the systematics, interrelationship and basic organization and biology of invertebrates - Protozoa, Porifera, Cnidaria, Ctenophora, Platyhelminthes, Nemertines, Rotifera and Nematode, Annelida, Arthropoda, Mollusca, Echinodermata. *Brief but critical overview of the order creation in Genesis account and intelligent designs (ID) in nature diversity*. Pre-requisite: BIOL 102.

**CHEM 213: ORGANIC CHEMISTRY I****L:2, P:1, T:1 3 Credits**

Kinetics and Energetics of Reactions; Multiple Bonds; Aromatic Compounds; Chemistry of C-Halogens Bond; Chemistry of Hydroxyl group; Ethers, Thiols and Thioethers.

**CHEM 214: ORGANIC CHEMISTRY II****L:2, P:1, T:1 3 Credits**

Amines and Derivatives; Chemistry of the Carbonyl group; Chemistry of Carboxylic Acids and Derivatives; Sulphuric Acids; Some Important types of Natural Products – Lipids, Carbohydrates, Chemistry of Amino Acids and Proteins.

**CHEM 244: ANALYTICAL CHEMISTRY****L:2, P:0, T:1 3 Credits**

The course explains the theory and types of errors that are involved in laboratory work and how to calculate the errors. It further deals with optical methods of monitoring chemical reactions. Theory of errors, statistical treatment of data, and theory of sampling, chemical methods of analysis including volumetric, gravimetric and physicochemical methods, Optical methods of analysis, Separation methods. Comparisons of error-borne physical systems with perfect natural systems in Genesis creations.

**BCHM 201: FOUNDATIONS OF BIOCHEMISTRY I****L:2; P:1 T:1 3 Credits**

Experimental discoveries and the history of biochemistry. Contributions of the following biochemists to the subject: Nueberg, Emil Fisher, Warburg, Michaelis-Menten, Krebs, C. Cori and G Cori, Hills Ochoa, Calvin and Benson, Watson and Crick, Jacob, Monod, Niremberg, Sanger, Bornberg and others. Structures and functions of major cell components; Prokaryotic versus Eukaryotic organisms. Chemistry of amino acids, proteins and their derivatives; Methods of isolation and identification; Chemistry and structures of carbohydrates, proteins, lipids and nucleic acids.

**BCHM 202: FOUNDATIONS OF BIOCHEMISTRY II****L:2, P:1, T:1 3 Credits**

Review of structures, properties and biological significance of proteins, carbohydrate, Lipids and nucleic acids. Primary, secondary, tertiary and quaternary structures of proteins. Determination of structures and biochemical applications of proteins. Nomenclature of nucleosides and nucleotides. Hydrolytic effects of acid and alkali on nucleic acids.

**STAT 204: BIOSTATISTICS****L:1; P:0 T:1 2 Credits**

Aims, characteristics and application of biostatistics. Vital statistics. Measure of central tendencies and variation. Collection and presentation of data. Probability sampling. Tests of statistical significance. Experimental designs and clinical trials. Other application of biostatistics to clinical and preventive medicine.

**MBIO 201: GENERAL MICROBIOLOGY I****L:2; P:1 T:1 3 Credits**

Historical aspects including origins and scope of Microbiology. Introduction to various forms and characteristics of microorganisms including bacteria, viruses, fungi, protozoa and lagae. A brief account of their growth, reproduction, and distribution in nature, their relationships to each other and other living things and their beneficial and harmful effects on man. Control of microbial pollution involving both physical and chemical agents.

**BIOL 301: GENETICS II****L:1, P:0, T:1****2 Credits**

Molecular basis and structure of Genes, functions and interactions. Chemical nature of hereditary material. The Genetic code. Gene regulation. Molecular basis of gene mutation and chromosomal aberration - structural and Numerical changes in Chromosome. Cytoplasmic Inheritance. Aspects of Human genetics. Pedigree analysis. Introduction to Population Genetics - Hardy-Weinberg theory. Gene frequencies. *Specificity, regulation and repairs of genetic systems and mechanisms as evidence of ID in nature and perfection in creation. The genetic code as God's programming language in nature and regulation of life.* Pre-requisites: BIOL 201.

**BIOL 302: GENERAL CYTOLOGY****L:1, P:1, T:1****2Credits**

Light, phase contrast, dark field and electron microscopy, auto-radiography. Florescence. Cell cycle and implications. Introductory cytogenetics. Structure and behavior of chromosomes at mitosis and meiosis. Karyotype and idiogram. Structural and Numerical changes in Chromosome. Cytotoxicity and genotoxicity in plants and animals test systems or batteries (*Allium cepa*, *Drosophila melanogaster*, Ames test etc.). *Chromosome structure and behaviour as evidence of ID in nature and perfection in creation.* Pre-requisite: BIOL 201, 301.

**BIOL 303: EVOLUTION I****L:1; P:0; T:1****3 Credits**

Current concept of evolution. Theories, evidence and mechanisms of organic evolution. Geological periods and epochs. Genetic variation and speciation. Evolution of selected organisms. *Creation and science - intelligent design and irreducible complexity. The Biblical flood account as a global concept that may explain current diversity of Life. The conundrum of Geologic column and human distribution and diversity should be considered.* Pre-requisites: BIOL 101, 102, 201 or 301.

**BIOL 304: ECOLOGY II****L:1; P/T:1****3 Credits**

Population ecology and dynamics. Sampling and estimation. Growth and regulation, theories of population. Interrelationship of biotic and environmental factors that control population responses and interaction, competition, competitive exclusion principles. Predation, parasitism. Natural regulation of numbers. Succession in populations. Hand-Weinberg theory. *The Garden of Eden as a perfect model of a balanced environment before sin. Restoration of our ecosystem to Eden-type.* Pre-requisites: BIOL 208.

**BIOL 305: ENVIRONMENTAL CONSERVATION****L:1, P:1, T:1****3Credits**

The forest, wildlife and biodiversity resources of Nigeria, dynamics, conservation policies, methods and management techniques, problems and prospects. World wildlife resources: difference in values, management philosophies and traditions. Endangered and endemic species of fauna and flora in Nigeria, their status, economic importance and conservation. *The Garden of Eden as a perfect model of a balanced environment before sin. Environmental conservation towards the Eden-type model.* Pre-requisites: BIOL 208.

**BIOL 306: TOXICOLOGY****L:1, P:0, T:1****2 Credits**

History and components of toxicology. Nature and classification of common environmental toxicant. Effects and pathways/degradation. Pollution (air, water and land). Mode of action. Resistance of animals to toxicant. Formation of toxicant. Analysis of toxic substances, toxicity

testing, toxic waste disposal. Environmental impact assessment, risk management, control and remedies. Regulatory policies. FEPA, NGO's. International Environmental Institutions. *Toxicology as example of a disturbed ecosystem likened to imbalance introduced in Eden by sin.* Pre-requisite: BIOL 101 or 208.

**BIOL 307: MOLECULAR BIOLOGY**

**L:2, P:0, T:1**

**3 Credits**

Genetics at the molecular level as related to gene structure, function, variation, expression and regulation of eukaryotic genes. Chromosome structure and replication; gene structure, transcription and RNA processing; protein synthesis and translational control, development, immune system and on cogenesis. Genetic engineering and gene technology. *Transcription and translation, specificity, regulation and repairs of genetic systems and mechanisms as evidence of ID in nature and perfection in creation.* Pre-requisites: BIOL 201, 301.

**BIOL 308: PLANT AND ANIMAL PHYSIOLOGY II**

**L:2, P:0, T:1 3 Credits**

A general study of osmoregulation, excretion, transport, homeostasis and their coordination in animals. Plant water relation, growth and growth regulation. Physiological aspect of crop yield. *Evidence of IC of molecular machines contrary to Darwinian synthesis of gradual long-period blind evolution.* Pre-requisites: BIOL 210.

**BIOL 309: INTRODUCTORY NEMATOLOGY**

**L:1, P:0, T:1**

**2 Credits**

Principal characteristics of nematodes, morphology, position and outline of classification of nematodes. Morphology, position and outlines of classification of nematodes. Morphology and biology of important plant parasitic nematodes and their economic importance. Nematological techniques. General principles and methods of controlling nematodes. *Visualization of ID in nature's diversity and a perfectly working Eden ecosystem with symbiotic nematodes.* Pre-requisites: BIOL 101, 102.

**BIOL 360: STUDENT INDUSTRIAL WORK EXPERIENCE (SIWES)**

**L:0: P:3 T:0 3 Credits**

Students will be attached to relevant industrial firms for a minimum of 3 months. At the end of period of practical industrial exposure, a written report is submitted, together with the report of daily activity of the student as approved by the industry and other relevant documents, to the department for assessment.

**MBBT 307: BIOTECHNOLOGY TECHNIQUES II (ANIMAL MICRO-TECHNIQUES & TRANSGENIC)**

**L:0, P:2, T:1 3 Credits**

Recombinant DNA Technology I: Methods and techniques in: 1. Gene isolation: DNA extraction and cleavage with restriction endonuclease enzyme. 2. *Blotting techniques* – Southern, Northern and Western Blot methods/Hybridization of protein and DNA identifications. Methods of labeling nucleic acids and probes and choice of labeling. 3. *Electrophoresis* – Techniques, methodologies, principles and applications of electrophoresis, chromatography, spectroscopy, spectrophotometry, centrifugation and isotopic techniques. Ultracentrifugation, dialysis, optical microscopy. 4. *DNA amplification* - Principles and techniques of Polymerase Chain Reaction (PCR), Purification of PCR products. *ID and perfection in natural systems and creation versus error in artificial systems.* Pre-requisites: MBBT 214.

### **MBBT 309: MICROBIAL TECHNOLOGY AND APPLIED MICROBIOLOGY**

**L:2, P:0, T:1 3 Credits**

An integrated discussion of recent genetic, biochemical and engineering approach to microbial processing from antibiotics, biomass and citric acids to zymomonas and ethanol production. Applications of micro-organisms in industry, agriculture, environment with emphasis on the physical and chemical factors of growth and control in relation to industrial and natural processes. *Pollution-free Bacterial biosynthetic factories versus pollution-ridden artificial biochemical factories – ID in nature.* Pre-requisites: MBIO 201.

### **MBBT 360: STUDENT INDUSTRIAL WORK EXPERIENCE (SIWES)**

**L:0 P:3 T:0 6 Credits**

Student will be attached to relevant biotech industries for a minimum of 3 months. At the end of period of practical industrial exposure, a written report is submitted, together with the report of daily activity of the student as approved by the industry and other relevant documents, to the department for assessment.

### **MBBT 431: MOLECULAR SYSTEMATICS BIOLOGY**

**L:1, P:1, T:1 3 Credits**

Molecular approaches to Plant Taxonomy and Systematics Concepts: Biosystematics and classification; Taxa – Species, Clades; Nomenclature, Codes. Nomenclatural types. Trees: Systematic data – Phenotypes, DNA barcodes, Molecular sequences. Systematic methods: RFLP, Cladistics, Molecular homology, Parsimony, Homoplasy, Bayesian inference and ancestral character state reconstruction – dendrograms, phylogenies. Applications: Coevolution, Macroevolution, Biogeography, Phylogeography, Phylogenomics, Conservation and Biodiversity. *DNA complexity, specificity and identification capacity for individual organism as evidence of ID imprint of God in creation. Comparison and parallels in modern day diversity of organisms with Genesis creation account.* Pre-requisites: BOTA 311.

### **BOTA 311: PLANT TAXONOMY AND FLOWERING PLANT SYSTEMATICS**

**L:1, P:1, T:1 3 Credits**

Aims and concepts of taxonomy, Principles and methods of identification, Construction and use of taxonomic keys. Sources of taxonomic data and methods of analysis - Vegetative and reproductive morphology and taxonomy of selected families of seed plants. The basis of variation - genotype and phenotype; Biosystematics categories and gene exchange. Experimental taxonomy with special emphasis on Cytotaxonomy and Chemotaxonomy. Taxonomic literature. *Comparison and parallels in modern day flowering plants diversity with the ID and diversity laid out in Genesis creation account.* Pre-requisites: BIOL 102, BOTA 212.

### **ZOOL 301: ANIMAL DIVERSITY II (CHORDATES)**

**L:1, P:1, T:1 3 Credits**

The systematics, inter-relations and basic organization of the vertebrates. *Diversity and ID in nature as in Genesis creation account.* Pre-requisite: ZOOL 212.

### **ZOOL 302: ENTOMOLOGY**

**L:1; P/T:1 2 Credits**

Taxonomy, epidemiology and physiological effects on hosts of the major insect, pests of agricultural, medical and veterinary importance in Nigeria. Management of pests and disease. Collection, cultivating, preservation of insect groups. Coexistence, population dynamics swarming and pest outbreaks. *Diversity and ID in nature as in Genesis creation account.* Pre-requisite: ZOOL 212.

### **ZOOL 310: ANIMAL CONSERVATION AND BIODIVERSITY**

**L:1, P:1, T:1 2 Credits**

Basic and practical objectives of biodiversity management and conservation in Nigeria. The importance of wildlife species (with emphasis on Nigeria species) - Classification, Morphology and distribution of important fauna species. The wildlife resources of Nigeria; conservation policies, problems and prospects. World wildlife resources: difference in values, management philosophies and traditions. Identification and management of Game reserves, National Parks and other conservation areas in Nigeria and West Africa countries. Significance of wildlife management and production. Field techniques in Wildlife Management. Introductory Game ranching and domestication. *Visualization of ID in nature's diversity and a perfectly working Eden ecosystem with symbiotic relationship*. Pre-requisite: ZOOL 212.

### **ZOOL 314: PARASITOLOGY I**

**L:1, P:0, T:1 2 Credits**

Classification, Adaptation, Morphology, Anatomy, Life cycle, and other features of Protozoans, Platyhelminthes, Nematodes and parasitic Arthropods; Special reference to adaptation to parasitic mode of life of tropical parasites. *Visualization of ID in nature's diversity and a perfectly working Eden ecosystem with symbiotic parasites*. Pre-requisite: ZOOL 212.

### **BCHM 307: METABOLISM OF NUCLEIC ACIDS**

**L:1, P:1, T:1 2 Credits**

Review of structure, properties & function of nucleic acids; genome organization. Catabolism and biosynthesis of purines and pyrimidines nucleotides; some abnormalities in nucleic acid metabolism – gout, xeroderma pigmentosum and skin cancer. DNA Replication in prokaryotes and eukaryotes. DNA Damage, Repair & Genetic Recombination. DNA transcription in prokaryotes and eukaryotes. This course will enable students to appreciate the creative and redemptive powers of God at the molecular level in addition to the need to uphold integrity and team spirit. Pre-requisites: BCHM 201, BCHM 202.

### **BCHM 321: INSTRUMENTAL BIOCHEMISTRY**

**L:2, P:1, T:0**

**3 Credits**

Practical laboratory exercises cutting across a wide spectrum of general biochemistry methods. Principles, mode of operation and uses of the following instruments in biochemical research: pH meter, centrifuge, weighing balance, warburg manometer, colorimeters and spectrophotometers, radioisotope counters, electrophoretic apparatus, chromatographic apparatus (paper, TLC, HPLC, GC), rotary evaporator, vacuum/suction pumps, refluxing apparatus, photometers, fluorimeters, water bath, ELISA method, Kjeldahl apparatus etc. This will reflect the concept of integrity and accountability and also illustrate how the bible serves as the pathfinder of the truth. Pre-requisites: BCHM 201, BCHM 202.

### **BCHM 315: INTRODUCTION TO ENZYMOLOGY**

**L:2, P:0 T:1**

**2 Credits**

Classification and nomenclature of enzymes, Kinetic of enzymes and inhibition. Mechanism of enzyme-catalyzed reactions. Michael's Menten equation. Allosteric/regulatory enzymes. Estimation of kinetic parameters-enzymes Activities, Km, Vmax, Ki, Zymogen activator, digestive enzymes, Enzyme production, immobilized enzymes and application, vitamins and coenzymes. This course will reflect the concept of team spirit and roles of the Holy Spirit in life. Pre-requisites: BCHM 201, BCHM 202.



## **BCHM 325: METABOLISM OF AMINO ACIDS AND PROTEIN**

**L:2, P:1, T:1**

**3 Credits**

General review of chemistry & function of amino acids & protein. Metabolism of amino acids and protein, digestion and absorption of protein, catabolism of amino acids: deamination, transamination, transport of  $\text{NH}_3$  by glutamine and alanine, urea cycle. Pathways of amino acid degradation, fate of ketogenic and glucogenic amino acids, pathways of biosynthesis of amino acids, biosynthesis of amino acid derived compounds: porphyrins, heme, glutathione, creatine, biological amines; nitric oxide biosynthesis from arginine; in-born errors of amino acid metabolism. This course will enable students to appreciate the creative and redemptive powers of God at the molecular level in addition to the need to uphold integrity and team spirit. Pre-requisites: BCHM 201, BCHM 202.

## **MBIO 311: FOOD MICROBIOLOGY I**

**L:2, P:1, T:1**

**3 Credits**

The course deals with and emphasizes the distribution, role and significance of microorganisms in food. Factors that affect microbial growth in foods. Food spoilage and food-borne diseases. Food preservation techniques (including irradiation). Microbial indices of food quality. Food Microbiological standards. God is interested in conservation of resources as depicted in the miracle Jesus commanding the gathering of excess food after feeding the five thousand crowd. Hence, spoilage of food should be avoided as much as possible. Pre requisite: MBIO 201, MBIO 202, BCHM 201.

## **MBIO 316: ECOLOGY OF MICROBES**

**L:1, P:1, T:1**

**3 Credits**

The course studies the dispersal of and colonization of microorganism in different ecosystems. It also examines microbial ecology of air, solid and water. Ecology of microorganisms in specific habitats e.g. skin, mouth, intestine, phyllo plane and rhizosphere. Air microbiology; sources of air pollution. Indices of air pollution. Physical microbiological properties of air in different environments. Microorganisms and other organisms important in aquatic systems and disposals. Microbiological and chemical examination of water. Water quality standards. Microbiological sewage and methods of sewage treatments and disposal. Disease transmission by water. Fate of chemicals in aquatic ecosystems. Visits to sewage plants and water treatment plants. Two are better than one, because they have a good reward for their labour. Microorganisms work together as a team in order to achieve microbial succession. Pre requisite: MBIO 201, MBIO 202, BCHM 201, BIO 101.

## **MBIO 318: FUNDAMENTALS OF VIROLOGY**

**L:1, P:1, T:1**

**3 Credits**

This course deals with the study of virus and its classification. Viral architecture, laboratory diagnosis of viral infections. Viral strandedness. Mode of transmission. General characteristics of plant, animal and bacterial viruses, viral replication; spread and cytopathic effects. Viral cultivation, purification and assay. Laboratory diagnosis of viral infections i.e. Haem agglutination tests, Complement fixation test and Neutralization test. Viral-host interactions. Systematic study of viral diseases and general methods of control and prevention. Interferon, immunotherapy and chemotherapy in viral infections, inclusion bodies and cytopathic effects. Viral vaccines and immunoprophylaxis. Viruses and genetic engineering. Everything created was good until the advent of sin that brought various diseases including HIV that can be contracted mainly from immoral acts. Turning back to God will bring sanity.

**MBIO 320: MICROBIOLOGY AND THE ENVIRONMENT L:2, P:0, T:1 3 Credits**

This course is designed to study air microbiology; sources of air pollution. Indices of air pollution. Microbiological quality of air, relevant organisms in aquatic systems. Ecology of microorganisms in fresh water and marine pollution. Self-purification of water. Microbiological and chemical examination of water. Water quality standards. Microbiological sewage and methods of sewage treatment and disposal. Disease transmission by water. Fate of chemical in aquatic ecosystems will be examined in this course. Visits to sewage plants and water treatment plants. God created man into a perfect environment until the advent of sin that brought hard labour which constantly disrupt the aesthetics of the environment. However, heart yielded in obedience to God will experience restoration. Pre-requisite: MBIO 201, MBIO 202, MBIO 201.

**BIOL 401: GENETICS III****L:1, P:0, T: 2 Credits**

An introductory consideration of mathematical models for the analysis of gene frequencies and genetic variation in populations. *DNA complexity and interaction with population of organisms and the environment as evidence of ID and God's control, intervention and supremacy in life.* STAT 204, BIOL 201, 301, 302 or 307.

**BIO 402: DEVELOPMENTAL BIOLOGY****L:2, P:0, T:1 2 Credits**

Molecular and genetic aspects of development. A detailed study of the cellular and multicellular basis of development. *Specificity, regulation and repairs of genetic systems and mechanisms as evidence of ID in nature and creation.* Pre-requisites: BIOL 206.

**BIOL 403: SYSTEMATICS BIOLOGY****L:1, P:1, T:1 3 Credits**

Concepts: Biosystematics and classification; Taxa – Species, Clades; Nomenclature, Codes. Nomenclatural types. Trees: Systematic data – Phenotypes, DNA barcodes, Molecular sequences. Systematic methods: RFLP, Cladistics, Molecular homology, Parsimony, Homoplasy, Bayesian inference and ancestral character state reconstruction – dendograms, phylogenies. Applications: Coevolution, Macroevolution, Biogeography, Phylogeography, Phylogenomics, Conservation and Biodiversity. *DNA complexity, specificity and identification capacity for individual organism as evidence of ID imprint of God in creation. Comparison and parallels in modern day diversity of organisms with Genesis creation account.* Pre-requisites: BOTA 311.

**BIOL 404: POPULATION ECOLOGY AND BIOGEOGRAPHY****L:1, P:1, T:1 3 Credits**

Growth and regulation of population. Interrelationship of biotic and environmental factors that control population responses and interaction. The subdivisions of the earth into zoogeographic regions. Faunistic characteristics of each region. Focus on Ethiopian and neighbouring regions. Island types and classification. The transition zones. Plate tectonics and continental drift. Continuous and discontinuous types of distribution. Animal and plant distribution. The effect of man on the distribution of animals and plants. *Diversity and ID in nature as in Genesis creation account.* Pre-requisites: BIOL 208, BOTA 212, ZOOL 304.

**BIOL 406: CYTOGENETICS****L:1, P:0, T:1 2 Credits**

Aspects of cell and nuclear divisions. Morphology and behavior of chromosomes. Chromosomal aberrations and polyploidy. *Chromosome structure and behaviour as evidence of ID in nature*

*and perfection in creation. Aberrations as extraneous, unintended non-ID occurrence akin to sin in the course human relationship with God. Pre-requisite: BIOL 201, 301.*

### **BIOL 419: SOIL CHEMISTRY AND ECOLOGY**

**L:2, P:0, T:1 3 Credits**

Physical and chemical nature of soil. Historical perspective. Chemical composition of soils, Soil colloids: inorganic and organic colloids. Silicate mineral chemistry. Cation and Anion exchange phenomena and base saturation. Flocculation and dispersion. Soil reaction (active and reserve acidity, Alkalinity, buffering capacity, soil acidity and liming, lime requirements and management consideration). Soil organisms (detritus) - cycling of minerals and nutrient pools (energy and nutrient cycles), classification systems; distribution in soils, growth requirements and functions of representative groups of micro- and macro-fauna, micro- and macro-flora. Association between microbes and plants. Soil Organic matter. Importance of soil organic matter in humid tropical soils; general decomposition process. Humification; organic matter maintenance. The dynamics of N, P and S pools. *Synergy and mutualism in nutrient cycling in biotic and abiotic components of nature as evidence of ID in creation.* Pre-requisite: BIOL 208.

### **BIO 408: HUMAN GENETICS AND GENOMICS**

**L:2, P:0, T:1 3 Credits**

Human molecular genetic variation, molecular basis of metabolic disorders, chromosome aberrations and consequences. Fundamentals of genomics, including structural genomics, functional genomics and proteomics. Analysis of the human genome. *Specificity, regulation and repairs of genetic systems and mechanisms as evidence of ID in nature and perfection in creation. Aberrations as extraneous, unintended non-ID occurrence akin to sin in the course human relationship with God.* Pre-requisite: BIOL 201, 301 or 307.

### **BIOL 415: FORENSIC BIOLOGY**

**L:2, P:0 T:1 3 Credits**

History of forensic Science, crime labs and forensic science, ethics and integrity, ROP, Fingerprinting, Biomolecules (Carbohydrate, Fats, Protein – functions and biochemistry). Biology, Chemistry and forensic identification of *body fluids* - urine, blood, saliva, faeces, sweat. Analytical procedures for collection, extraction and preservation of materials and tissues of forensic interest. Instrumentation (electrophoresis – gel, slab-gel, capillary ABI prism analyzer). Genetics – Genes and genetic variables, causes of genetic variables. Polymerase Chain Reaction (PCR) – role in forensic Short Tandem Repeat (STR) and Variable Science Nucleotide Tandem Repeat (VSNT), Report writing in forensic biology. Law, Science and Medicine application in forensic practices. *DNA complexity, specificity and identification capacity for individual organism as evidence of ID imprint of God in creation.* Pre-requisite: BIOL 201, MBBT 301.

### **BIOL 416: MARINE BIOLOGY**

**L:1, P:1 T:1 2 Credits**

A study of the biology of marine fauna and flora. Economic importance of the marine organisms. *Brief but critical overview of the order creation in Genesis account and intelligent designs (ID) in nature diversity.* Pre-requisite: BOTA 211, 212, ZOOL 212, 304.

### **BIOL 418: HYDROBIOLOGY**

**L:1, P:0, T:1 2 Credits**

Types of aquatic habitat; ecological adaptations to aquatic life. Brief but critical overview of the order of creation in Genesis account and intelligent designs (ID) in nature diversity. The Garden of Eden as a perfect model of a balanced environment before sin. Pre-requisites: BIOL 208.

**BIOL 421: BIOLOGY OF CANCER****L:1, P:0, T:1 2 Credits**

A consideration of chemical, viral and physical oncogenic agents; genetics and host Factors; immunological response to neoplasia; chemotherapy. *Specificity, regulation and repairs of genetic systems and mechanisms as evidence of ID in nature and perfection in creation. Nuclear and cell division aberrations as extraneous, unintended non-ID occurrence akin to sin in the course human relationship with God.* Pre-requisite: BIOL 201, 301 or 307.

**BIOL 420: COMPARATIVE VIROLOGY****L:1, P:0, T:1 2 Credits**

Biology of viruses and approaches to control through the use of antiviral agents and Genetic engineering. Genome organization, gene expression, replication, movement and transmission across kingdom. *Creation was perfect but sin like virus introduced imperfection, imbalance and disease in nature.* Pre-requisite: MBIO 318, ZOOL 314.

**BIOL 433: SEMINAR****L:0, P:0, T:2 2 Credits**

Under the supervision of a staff, each student is expected to select a topic for detailed study based on literature search. The emphasis should be on recent advances in the chosen field of Biology, Molecular Biology and Biotechnology. The study shall be presented at a class seminar. A write up on the topic shall also be submitted.

**BIOL 490: RESEARCH PROJECT****L:0, P:6, T:0 6 Credits**

Independent research into selected areas/topics of interest in chosen field of Biology, Molecular Biology and Biotechnology. Students will be required to carry out literature survey on the topics, perform experiments under the guidance of an academic staff and produce reports (preferably at the end of second semester). Students will be subjected to both seminar and oral examination on the projects undertaken.

**MBBT 423: BIOTECHNOLOGY TECHNIQUES II****L:1, P:1, T:1 3 Credits**

**Recombinant DNA Technology II:** 5. *Cloning* - Constituting Recombinant DNA, use of Ligases, Linkers and Terminal transferase. Cloning of Vectors - Practical examples from Bacterial plasmids, Bacteriophage vectors, Cosmids, Viral shuttle. Lac and Expression vectors. 6. *Methods of gene transfer* - Transformation, Transduction, Biological delivery systems - *Agrobacterium tumefaciens*; Vectors; Artificial delivery systems - Bioballistic process/Gene Gun - Particle bombardment, Microinjection; Lipoinfection - Silicon carbide Fiber; Vortex, Sonication; Electroporation; Poly-cation Mediated DNA uptake, Ca-DNA Co-Precipitation; Ultrasonication; UV Laser Microbeam. 7. *Gene expression* - Reporter gene for transient expression - Practical examples from  $\beta$  - Glucuronidase (GUS from *E. coli*), Luciferase gene (from Fireflies *Photinus pyralis*), chloramphenicol Acetyl Transferase Gene, Nopaline (nos) synthase, Neomycin Phosphotransferase Gene (NPT II), Anthocyanins, Dihydrofolate Reductase Gene; *Bacillus thuringiensis* BT gene; Promoter elements; Selectable Marker Gene; Inactivation of foreign Gene Expression: Transgene inactivation and Methylation; Double transformations and Gene silencing; Post-Transcriptional Gene Suppression. 8. *DNA sequencing. DNA complexity, specificity and identification capacity for individual organism as evidence of ID imprint of God in creation.* Pre-requisite: BIOL 201, MBBT 301.

**MBBT 424: INDUSTRIAL BIOTECHNOLOGY****L:1, P:0, T:1 3 Credits**

Micro-organisms of industrial importance and their roles, culture techniques and maintenance of selected strains, improvement of strains through mutation, gene Amplification, hybridization, protoplast fusion and transformation & DNA techniques and Future impact. Basic fermentation design and operations. Single cell proteins, Bioinsecticides and biofertilizers. Development and prospects of enzyme technology. Biodegradation of industrial materials. Industrial production of organic acids, amino Acids, antibiotics and vitamins. Pre-requisite: MBBT 301.

**MBBT 425: BIOINFORMATICS AAND NUCLEOTIDE SEQUENCE ANALYSIS****L:1 P:1 T:1 2Credits**

Computer analysis of nucleotide sequences assembly; Restriction analysis; gene location and identification; protein sequence analysis and structure prediction; database searching; Sequence alignments; and phylogenetic analysis. *The genetic code as God's programming language in nature and regulation of life*. Pre-requisite: BIOL 301, 307 or MBBT 301.

**MBBT 428: BIOSAFETY, BIOETHICS AND INTELLECTUAL PROPERTY RIGHTS****L:1, P:0, T:1 2 Credits**

Biosafety - Definition and scope. Hierarchy of regulatory, organs. Overview of safety issues and application in various products and services. Environmental risks associated with gene manipulation and editing. Biohazards, risk assessment and management. Bioethics - Definition and scope, ethical issues, sperm bank designer babies, organ donation. Property rights protection, patents, innovations and lineation and other legal instruments. Pre-requisite: MBBT 301, BIOL 208, 301, or 415.

**MBBT 417: BIORESOURCES MANAGEMENT****L:1, P:0, T:1 3 Credits**

Biological diversity, genetic diversity, specific diversity; species of local cereals, local legume species, local fruit tree species. Genetic diversity expressed through large number of associations or combinations of genes in individuals of single species. Wild local Plants related to cultivated species and whose genetic diversity is crucial ingredient to co-Breeding or hybridization processes aimed at giving more vigour to the crop varieties that have been cultivated over so many years. Loss of genetic variability of crops or genetic erosion; species disease resistance, utilization of plant and animal genetic resources, local Germplasms. Conservation of plant and animal genetic resources, the effects of destruction of natural environment on local plant and animal genetic resources. The importance of conserving the biological heritage of plant and animal kingdoms. Development of seed and gene banks, modes of operation of gene banks, germplasm collections of local crop species, gene banks and breeding. Selection of resistant varieties, Biotechnologically-based alternatives to live animal experiments; Biotechnological protection of forest plantations and economic plants, germplasm appropriation and privatization for crop improvement. Patents and plant breeders' rights, production of improved plants and animals. *Visualization of ID in nature's diversity and a perfectly working Eden ecosystem with symbiotic parasites*. Pre-requisite: BIOL 208, 305, ZOOL 310.

**MBBT 408: PROCESS BIOTECHNOLOGY****L:1, P:0, T:1 2 Credits**

Description of various types of vessels for cell cultivation. Bioreactor design and Optimization. Agitation of bioreactors. Survey of the applications of biotechnology, emphasizing the

pharmaceutical industry and the operation of fermentation systems. Case studies of downstream separation and purification protocols employed on an Industrial scale. Pre-requisite: BIOL 208

**MBBT 429: METABOLIC ENGINEERING**

**L:1, P:0, T:1 2 Credits**

Regulation of metabolism, induction, nutritional repression, feedback regulation, Metabolic control mechanisms; regulatory mechanism of carbohydrates metabolism; Regulation of protein and amino acid synthesis; Regulation of biosynthetic pathways in Prokaryotes and eukaryotes, feedback resistance mutation. Pre-requisite: MBBT 301.

**MBBT 410: BIOTECHNOLOGY OF ANIMAL REPRODUCTION** **L:1, P:0, T:1**

**2 Credits**

The issue of food security, principle of animal breeding; marker assisted selection and breeding; artificial insemination, in vitro. Fertilization, multiple relation embryo Techniques for farm animals; genetic engineering of farm animals for better growth, Monoclonal antibodies, recombinant DNA technology for development of diagnostics. Reagents for detection of animal diseases, animal vaccine production. *The mandate of procreation in Genesis creation account. Embryogenesis as evidence of ID.* Pre-requisite: ZOOL 308.

**MBBT 411: BIOTECHNOLOGY OF ROBOTICS**

**L:2, P:0, T:1 3 Credits**

Application and use of robotic equipment in the analysis of large number of samples; assay and protocol design; data collating, analysis and interpretation, applications in various life science industries. Pre-requisite: MBBT 301.

**MBBT 427: PLANT GENE TRANSFER**

**L:1, P:0, T:1 2 Credits**

Principles and experimental techniques of non-sexual gene transfer in plants. Application of gene-transfer techniques in crop improvement and research in gene expression. Pre-requisite: MBBT 301.

**MBBT 433: SEMINAR**

**L:0, P:0, T:2 2 Credits**

Under the supervision of a staff, each student is expected to select a topic for detailed study based on literature search. The emphasis should be on recent advances in the chosen field of Molecular Biology, Plant and Animal Science, and Biotechnology. The study shall be presented at a class seminar. A write up on the topic shall also be submitted.

**MBBT 490: RESEARCH PROJECT**

**L:0, P:6, T:0 6 Credits**

Independent research into selected areas/topics of interest in chosen field of Molecular Biology, Plant and Animal Science, and Biotechnology. Students will be required to carry out literature survey on the topics, perform experiments under the guidance of an academic staff and produce reports (preferably at the end of second semester). Students will be subjected to both seminar and oral examination on the projects undertaken.

**BOTA 406: ECONOMIC PLANTS**

**L:1 P:1 T:1 2Credits**

Ethnobotanical information and study of medicinal plants used by indigenous people of West Africa for human diseases - description, identification, classification and extracts. Ethno-veterinary medicine. Plants used as dyes, food, colours, preservatives and pesticides. Wild

edible fruits, collection, preservation, and conservation techniques. Agro-botanical characteristics of selected Nigerian crops; tree crops e.g. cocoa; food crops e.g. cassava, rice; oil plants e.g. palm tree, groundnut; elastomers e.g. rubber; vegetables e.g. tomatoes; fruits e.g. pineapple; spices e.g. cinnamon, pepper; etc. Economic potential of lower plants e.g. algae, fungi, bryophytes and pteridophytes. *Diversity and order of created plants in the book of Genesis, injunction for their use as food and adoption in the Garden of Eden as a model for human.* Pre-requisite: BOTA 308.

#### **BOTA 411: PLANTS SCIENCE AND ENVIRONMENTAL POLLUTION**

**L:1, P:1, T:0 2 Credits**

The use of algae, lichens, Bryophytes and higher plants in monitoring air pollution. The use of algae as indicators of aquatic pollution. The merits and demerits of using various taxonomic groups as indicators. *Parallels from Garden of Eden as a perfect balanced pollution-free environment until sin emerged.* Pre-requisites: BIOL 208, BOTA 211.

#### **ZOOL 406: APPLIED PARASITOLOGY**

**L:1, P:0, T:1 2 Credits**

Animal associations, commensalism, phoresis, mutualism, symbiosis, Microenvironment of parasites in a host. Evolution of parasitic mode of life. Epidemiological studies and control measures of important tropical parasitic disease. Role of vectors in transmission of parasitic disease. Host finding behavior, immunity to parasites. In vitro culture of parasites. *Visualization of ID in nature's diversity and a perfectly working Eden ecosystem with symbiotic parasites.* Pre-requisite: ZOOL 314.

#### **ZOOL 414: PARASITOLOGY II**

**L:2, P:0, T:1 3Credits**

Mode of life exhibited by parasites of medical and veterinary importance-hatching and molting processes, arrested development and self-cure phenomena. Parasite-host relationship and nature of parasitism in relation to other forms of animal associations. Epidemiological studies and control measures of important tropical parasites and the role of vectors in their transmission culture and staining techniques. *Visualization of ID in nature's diversity and a perfectly working Eden ecosystem with symbiotic parasites.* Pre-requisite: ZOOL 314.

#### **EVMT 408: WILDLIFE ECOLOGY, CONSERVATION AND MANAGEMENT**

**L:1, P:1, T:1 3 Credits**

The ecology of wild animals with special reference to their distribution, and natural history, as well as the application of the knowledge gained for wildlife management. Dynamics of wildlife population - factors affecting wildlife abundance and distribution, immigration and emigration in wildlife population; population structure analysis with respect to size, age-group, sex -ratio, reproductive, survivorship and recruitment. Techniques of wildlife investigation - Wildlife capture techniques, traps and designs, drugs immobilization, handling, care and feeding of captured animals; field exercises of different capture methods. Construction of life tables for wildlife populations and application of different sampling techniques in wildlife management. The niche concept - habitat studies of wildlife communities in major aquatic and terrestrial ecosystems of Nigeria. Territorial defense, home range of the individual species and populations. Implication of wildlife population dynamics for management and conservation of wildlife.

*Visualization of ID in nature's diversity and a perfectly working Eden ecosystem with symbiotic relationship. Pre-requisite: ZOOL 310.*

### **MBIO 415: MICROBIAL ANALYSES AND QUALITY CONTROL**

**L:1, P:1, T:1 3 Credits**

This course will examine the role of microorganisms as reagents in qualitative analysis. Selection and response test organisms for assays (antibiotics, amino acids, vitamins etc.). Response of microorganisms used in assays. Obtaining and measuring responses. Preparation of assay samples. Methods of assays. Interpretation of results. Aspects of quality control. Plant and equipment sanitation. Microbiological standards and specifications. *The word of God is the acceptable standard for all findings.* Pre-requisite: MBIO 306, MBIO 309.

### **\*ECOTOXICOLOGY AND ENVIRONMENTAL MANAGEMENT**

*(\*See Biology course description above for other courses in the synopsis)*

### **COURSE DESCRIPTIONS**

#### **BSAD 101: PRINCIPLES OF MANAGEMENT 1**

**L:2, P:0, T:1 3**

#### **Credits**

Define and explain the nature of Business, Examine the managerial functions, levels and skills. Define and explain the nature of business. Identify and explain the forms/types of business ownership/ organization, dimension of organizational structure. Business ethics/social responsibility of a business/corporate body. Understand the nature of Business Environment and its relevance for policy decisions to be made by the management of any organization. The basic concepts, principles and techniques of management. Apply the concepts, Principles and techniques in the solution of management problems. The objective of this course is to make the students understand that God the creator of human and material resources is the greatest manager.



**BSAD 102: PRINCIPLES OF MANAGEMENT 11****L:2, P:0, T:1 3 Credits**

Examines the four elements of the management process: planning, organizing, leading, and controlling. Identify principles to assist managers in adapting these elements to fit a variety of situations and enterprises; Reviews methods to improve the quality of managerial decisions in small and large, profit-seeking and not-for-profit organizations. Topics include management as a discipline, alternative organizational models, effective decision making, mission and strategy, operational strategy, and adaptive planning. The principles learnt from this study/course will make the students to be God fearing, and better future servant-leaders.

**EVMT 201: PRINCIPLES AND METHODS IN ENVIRONMENTAL SCIENCE AND ANALYSIS I****L:2, P:0, T:1 3 Credits**

Application of physical and chemical principles, ecological concepts, and systems approach to policy analysis of atmospheric environments, freshwater and marine environments, land use, energy supplies and technology and other resources. Review of fundamental concepts. Sampling techniques, statistical treatment, analytical data, accuracy, precision, errors, student's "T" function and rejection of outliers. Gravimetric analysis: Types; precipitate/crystal formation, contamination and appropriate handling of precipitates/crystals, co-precipitation, precipitation from homogenous solution. Titrimetric analysis: Acid-base, redox, complex metric, precipitation non- aqueous titrations, indicators. Colorimetry: Spectrophotometric reagents, elementary visible spectrophotometry: spectrophotometric titrations. *Our solar system and galaxies reflect inexplicable constants and precision beyond human scientific comprehension. This warrant 'Intelligent Design' and 'Perfection' only measured and paralleled by an infinite, Almighty Creator of Heavens and Earth.* Pre-requisite: CHEM 101

**EVMT 202: ENVIRONMENT, ECOSYSTEMS AND MAN****L:1, P:0, T:1 2 Credits**

Population, community, ecosystem, environment and environmental factors. Study of Communities and ecosystem, abundance, density, yield, cover, frequency. The ecology of niche, niche overlap, competition, coexistency, resource shift. Habitats: The primary terrestrial and aquatic habitats which affect man. Alteration imposed on the habitats by Man. Integration of ecology and environment into development planning. Ecological Management – Eco-development and integrated development. – Environmental planning Principles – interdisciplinary not multidisciplinary, holistic, comprehensive, participative coordinated, integrated and continuous planning. *The Garden of Eden as a perfect model of a balanced environment before sin. Restoration of our ecosystem to perfect pre-sin Eden-type.* Pre-requisites: BIOL 101, 102.

**CHEM 201: INORGANIC CHEMISTRY I****L:2, P:0, T:1 3 Credits**

The course deals with theoretical concepts of how atoms react with each other, new concepts about what is an acid or base and physical and chemical properties of more elements in the periodic table. Review Nature of Atom, Neil's Bohr's Postulation of electron, Nature of Electron-particles or waves; Structure of Simple covalent molecules, Sidgwick-Powell Theory of Molecules; Molecular Orbital Theory; Physical Properties of Elements; Complex Ion Formation; Application of Redox Potential; Concepts of Soft and Hard Acids and Bases; Comparative Chemistry of Groups V, VI & VII Elements; Application of some important Inorganic Chemicals

in Chemistry, Agriculture, Medicine and Industry. Prerequisite: any of CHEM 101, 102, 103,104, 105, or 106

*We learn in this course that God understands the fundamentals of everything because He created them and they all work in unison for our own use. This course shows us how God operates at the microscopic and macroscopic level and confirms that He pay attention to everything about our life*

### **CHEM 233: PHYSICAL CHEMISTRY I**

**L:2, P:0, T:1 3 Credits**

This is the first course in chemistry that explains forms of matter and studies the physical properties and other phenomenon of matter like heat and chemical equilibrium. States of matter, Kinetic Theory of Gases, Boyle's law; Charles law, Graham' law of diffusion, molecular velocity and their distribution, chemical thermodynamics, Heat capacity and Joule's experiment, laws of thermodynamics, Clausius-Clapeyron equation; thermo-chemistry; chemical Equilibrium. Le Charteliers-Braun. Prerequisite: General Mathematics I and II. God creates man as body, soul and spirit. These are different entities all behaving differently but working in unison. So likewise God created different phenomenon which have different behavioral characteristics but works in unison.

### **BSAD 202: MANAGEMENT THEORY**

**L:2, P:0, T:1 3 Credits**

The nature of management theory. Basic management techniques and concepts. Classical and neo-classical theories of organization and management. The modern and systems theories of management. Theories of motivation and leadership. The contingency approach. This course will emphasize the importance of treating others the way ones want to be treated. Biblical principles of equity, justice, and fairness will be emphasized.

### **EVMT 203: ELEMENTS OF HYDROLOGY**

**L:1, P:0, T:1 2 Credits**

Definition, scope and application of hydrology. The concept of hydrological cycle and Drainage basin characteristics: Precipitation-forms, types and measurements. Factors affecting interception, evaporation, evapotranspiration, surface run-off and subsurface Flow. Determination and analysis of infiltration, percolation, permeability, aquifers and Groundwater movement. *Some natural resources like water and the sun are God's perfect gift benevolently replenished and recycled in nature for our responsible and sustainable use.* Pre-requisites: BIOL 101, 102.

### **EVMT 204: INTRODUCTION TO CLIMATOLOGY AND BIOGEOGRAPHY**

**L:1, P:0, T:1 2 Credits**

Basic definitions and explanations in climatology and biogeography. – Climatological problems and investigation methods – relationship with meteorology, bio-geography and hydrology, climatology data processing methods; basic factors of climate formation, Influence of relief on climate and plants. Geographical distribution of climate elements, Plants and animals, climate and soil. The concept of adaptation in plants and animals. Classification of climate and biogeography of the earth. *Natural resources and endowments by the creator in the Genesis creation account are to be responsibly utilized for a perfect balanced pre-sin Eden-type environment.* Pre-requisites: EVMT 202 or BIOL 208.

### **EVMT 206: OCEANOGRAPHY**

**L:1, P:0, T:1 2 Credits**

Study of the temperature and chemistry of sea water. Biological activities and their Distribution. Salinity, chlorinity, currents, tides, waves, sound and radiation in the sea, Conductivity, diffusion, viscosity and dynamics of sea water distribution and plankton. Brackish water condition and fauna. Interrelationship and physiological adaptations of Marine organisms. *Natural resources, Ocean and aquatic resources were created at the beginning and endowed to us for care, keep and use.* Pre-requisites: Pre-requisites: EVMT 202 or BIOL 208.

### **EVMT 208: FUNDAMENTALS OF SUPPLY AND CHAIN MANAGEMENT I**

**L:1, P:0, T:1 2 Credits**

The course considers basics of supply chain and supply chain's roles within organizations. The course includes defining supply chain management and the various domains within supply chain (i.e., customer service, manufacturing and service operations, order management, procurement and supply management, demand planning, inventory management, warehousing operations, and transportation operations). *Production must be matched by responsible and equitable distribution as in the miracle of the feeding of the 5000 multitude by Jesus.*

### **EVMT 301: PRINCIPLES OF NATURAL RESOURCES MANAGEMENT**

**L:1, P:0, T:1 2 Credits**

Natural resources types and origin, environment, resource and development; rational use of resources and concept of sustainable development. Management of forests, grazing, lands, soils, foods, minerals, etc. Community resource development, population and pressure on resource utilization. Administration and management of natural resource in Nigeria. Resource economics and management. Environmental conservation - Protection of nature and conservation of species. Conservation of agricultural landscape. Case studies concerned with concepts of balanced approach to natural resources management. Development of planning and management principles of natural resources and ecosystem subject to increasing development processes. Convention on Biodiversity. *Natural resources and endowments by the creator in the Genesis creation account are to be responsibly utilized for a perfect balanced pre-sin Eden-type environment.* Pre-requisites: EVMT 202 or BIOL 208.

### **EVMT 304: HAZARDOUS SUBSTANCES MANAGEMENT L:2, P:0, T:1 3Credits**

The nature, origin and classification of hazardous toxic substances; Characteristics of wastes and hazardous substances. Identification of hazardous substances. Sources and pathways of hazardous substances. Disposal methods and technology of hazardous substances. Geological environmental factors affecting choice of disposal site; contamination of water bearing strata; soil, plants, food webs and bio-concentration. Analysis of hazardous and toxic substances. Regulations and law governing the sale, importation, transportation, storage and disposal of hazardous and toxic substances. *The Garden of Eden was a perfect model of a balanced environment before sin. Irresponsible generation and introduction of hazardous substances will destroy our ecosystem as sin destroyed Eden.* Pre-requisites: EVMT 202 or BIOL 208.

### **EVMT 305: METALS AND THE ENVIRONMENT L:1, P:0, T:1 2Credits**

Origin of metals. Classification of metals., utilization of metals in industries. Sources of metal pollution; geological weathering, industrial discharge. Metals – fabricating and furnishing, leaching of metals from garbage, agricultural waste products. Effect of metals on the environment – sediment, waste, air and food. Adverse effect of heavy metals – poisoning effects

of pb, cd, zn and hg. Other effects e.g. Neurological, and renal effects. Analysis of metals in environmental samples. *The Garden of Eden as a perfect model of a balanced environment before sin. Irresponsible use and introduction of hazardous metals will destroy our ecosystem as sin destroyed Eden.* Pre-requisites: EVMT 202 or BIOL 208.

### **EVMT 306: ENVIRONMENTAL ASSESSMENT TECHNIQUES**

**L:1, P:1, T:1**

**3 Credits**

Introduction and principles of environmental assessment including Environmental Impact assessment (EIA) and environmental auditing. Relationship between Environmental Impact Assessment (EIA) and environment impact statement (EIS). The potential problems of EIA and proffered solutions. Essentials Steps in EIA and the EIA process; the essential elements in the EIA process, major players in the EIA process and the pre-requisites for EIA. Considerations of environmental issues in project planning (physical infrastructure and facilities; biological, socio-cultural; economic and political). Environmental Modeling, GIS methods - geographical data collection; exploration, land use survey, computer cartography, geographic coding, remote Sensing. Types of Environmental Impact, identification, prediction, evaluation, impact mitigation, Environmental monitoring. Environmental policy and regulations on Environmental Assessment, Risk assessment. The Cost-benefit analysis as a tool for environment decision-making procedure for Monitoring, Auditing and preparation of Environmental Management Programme Report. *The Garden of Eden as a perfect model of a balanced environment before sin. Restoration of our ecosystem to perfect pre-sin Eden-type.* Pre-requisites: EVMT 202, BIOL 208.

### **EVMT 307: ENVIRONMENTAL POLLUTION**

**L:1, P:0, T:1**

**2Credits**

Introduction and principles of pollution of environmental media (air, soil and water) and associated resources. Fate of pollutants, effects and monitoring. Environmental indicators of pollution and marker compounds. Remediation of contaminated environment. *God bestows the earth and its natural resources unto us at creation for dominion, responsible use, care, keep and sustenance as in Eden.* Pre-requisites: EVMT 202, BIOL 208.

### **EVMT 308: ENVIRONMENTAL ASPECTS OF PESTICIDE AND OTHER TOXICANTS' USAGE**

**L:2, P:0, T:1**

**3 Credits**

Movement and absorption of pesticides in soil. Factors affecting mobility of pesticides and other toxicants in the soil. soil-herbicide interaction and herbicide efficacy. Fumigant action and systematic activity. Pesticide conversion mechanisms in the environment. Enzymic and non-enzymic conversion, degradation of pesticides and toxicants in soil water, plants and animals. Pesticides in food chains. Detection/determination of toxic wastes in the environment, sanitary fundamentals of pesticide application, safety measures in storage, dispensing, transportation and use of pesticides; disposal of pesticide containers and wastes; ecological and environmental health effects. Environmental criteria standards, regulation on pesticide use. Case studies of global disasters of misuse and abuse of pesticides. *The Garden of Eden as a perfect model of a balanced environment before sin. Irresponsible use and introduction of pesticides metals will destroy our ecosystem as sin destroyed Eden. Restoration of our ecosystem to perfect pre-sin Eden-type.* Pre-requisites: EVMT 202, BIOL 208 or EVMT 307.

### **EVMT 309: REMOTE SENSING TECHNIQUES**

**L:1, P:2, T:0**

**3 Credits**

Concept of remote sensing. The electromagnetic spectrum; imaging systems and their capabilities, remote sensing platforms; applications in natural resource surveys and monitoring land use.

### **EVMT 311: PROJECT DEVELOPMENT AND MANAGEMENT**

**L:1, P:1, T:1      3Credits**

Distinguishing features of projects and the constraints, relationship between organizational strategy and project management, identify and plan to manage risks, the structures and information that have to be in place to successfully initiate a project, assess the importance of developing a project plan and discuss the work required to produce this plan, relevance of projects to process redesign, e-business systems development and quality initiatives; managing and leading projects, organization and implications of project-based team structures, role and responsibilities of the project manager and the project sponsor, identify and describe typical problems encountered by a project manager when leading a project, advice on how these typical problems might be addressed and overcome; monitoring, controlling and concluding projects.

Monitor the status of a project and identify project risks, issues, slippage and changes and the likely achievement of business benefits, formulate responses for dealing with project risks, and changes, establish mechanisms for successfully concluding a project and discuss the meaning and benefits of an end project review, including benefits realization. *The Genesis creation account saw a diligent God at work who not only closely supervised His work but also worked as a team with the 'Trinity' and ensured 'Perfection' of His creations and creatures.* Pre-requisites: EVMT 201.

### **EVMT 312: ENERGY AND THE ENVIRONMENT**

**L:1, P:0, T:1      2 Credits**

Energy and power: Its demand, principles and outlook. Cost of transformation of energy. Thermal pollution and electrical energy from fossil fuel, hydroelectric power generation. Cost, capacity, storage, reserves, efficiency and environmental effects of these. Electrical energy from nuclear reactors; prospect for the future through the promise (and problems) of breeder reactors, fusion power, solar power, geothermal, tidal and wind power. *The Garden of Eden was a perfect balanced model-ecosystem of energy and nutrient recycling before sin.* Pre-requisites: EVMT 202 or BIOL 208.

### **INSY 314: MANAGEMENT INFORMATION SYSTEMS**

**L:1, P:1, T:1      3 Credits**

Introduction to the use of computing and information systems in organizations and to problems of analysis, design, implementation, and management information systems. The role of technology and the organizational forms and processes needed to effectively apply technology in organizations is contrasted with the role of management and in directing and guiding information activities. The use of advanced systems development technologies such as application generators complements materials on systems design, control, and database methods, and systems organization.

### **EVMT 313: FUNDAMENTALS OF SUPPLY AND CHAIN MANAGEMENT II**

**L:1, P:0, T:1      2 Credits**

The course expounds on basic theories of supply chain and supply chain's roles within organizations. The domains within supply chain: customer service, manufacturing and service operations, order management, procurement and supply management, demand planning,

inventory management, warehousing operations, and transportation operations are empirically correlated to ensure effective supply and chain management. *Jesus maintained equity in the feeding of the 5000 multitude as a perfect example for present day supply chain.* Pre-requisites: EVMT 208.

### **EVMT 360: STUDENT INDUSTRIAL WORK EXPERIENCE**

**L:0, P:6, T:0 6 Credits**

Students should be attached to relevant organizations for 24 weeks for appropriate hands- On practical experience. Students should be assessed based on seminar presentations, written reports and supervisors' assessments.

### **CHEM 325: ENVIRONMENTAL CHEMISTRY**

**L:2, P:0, T:1 3 Credits**

The course focuses of on the chemistry of the environment. Biogeochemical cycles (H<sub>2</sub>, C, N cycle), components of the air and atmosphere, environmental pollution (Air, Water, solid wastes, waste water), organic and domestic waste treatment, management effluents case studies, Waste recycling.

God wants us to master our environment through His guidance. That is why he mandated us to flourish and replenish the earth with the help of the Holy Spirit. If we allow God to take control of our life, He would let us be able to control our life. *The Garden of Eden as a perfect model of a balanced environment before sin. Restoration of our ecosystem to perfect pre-sin Eden-type.* Pre-requisites: EVMT 202, BIOL 208.

### **EVMT 401: ENVIRONMENTAL MONITORING SYSTEMS AND TECHNIQUES**

**L:2, P:0, T:1 3 Credits**

Definition, general principles of environmental monitoring. Organization of monitoring programmes for site and resource specific strategies. Classification of monitoring techniques and use (physical, chemical, biological, radioactive); of sources, sinks and transport (mass balance) of both man-made and natural atmospheric trace components, ocean-atmosphere interactions, reversible effect of human activities on the global environment e.g. greenhouse effect, climate change, depletion of stratosphere ozone layer, acid rain; Analysis of air, soils, minerals, rocks and other miscellaneous materials. Sampling and analysis of water for various biological and physicochemical water quality Parameters: pH, hardness, alkalinity, chloride, nature, ammonia, sulphates sulphide, sulphite, faecal bacteria, etc. Determination of dissolved oxygen (DO) Chemical oxygen demand (COD), biochemical oxygen demand (BOD) dissolved and Suspended solids, conductivity, turbidity, temperature, Saturation Index, Sodium Adsorption ratio, etc.; Air pollution meteorology, chemistry and biology. Atmosphere dispersion models. Elements of air pollution control. Sampling and air monitoring techniques. Mechanism of pollutant interaction with oil and vegetation. General principles of bio testing, aquatic toxicity, types, bioassays, data analysis and interpretation. *Our solar system and galaxies reflect inexplicable constants and precision beyond human scientific comprehension. The 'Intelligent Design' and 'Perfection' can only be measured and paralleled by an infinite, Almighty Creator of Heavens and Earth. Restoration of our ecosystem to a perfect pre-sin Eden-type through constant awareness and monitoring.* Pre-requisite: CHEM 101, EVMT 201, 202, 306.

### **EVMT 403: ENVIRONMENTAL LAW**

**L:1, P:0, T:1**

**2 Credits**

Basic concept of environmental standard criteria and regulation. Federal environmental laws on environment protection. State edicts and regulations on the environment, plant and animal quarantine. Regulations and enforcement mechanisms; violations and Sanctions. Comparative study of environmental laws in some advance countries. E.g. USA, Canada, etc. International laws and conventions. *Honesty, equity and fear of the Lord in the dispensing and enforcement of the law as God is just.*

**EVMT 405: ENVIRONMENTAL EDUCATION, ECOLOGICAL DISASTERS AND CONTROL** **L:1, P:0, T:1** **3 Credits**

Population and environment (responsible use). Role of education intervention in environmental action. Methods of dissemination of environmental information, case studies of information to various target groups. Methods of public assessment, social theory for environmental, ecological, psychological participation, social response to environmental-pollution, environmental damage and compensation; Ecological consequences of mismanagement of natural resources. Origin, causes, mechanics and types of erosion. Erosion forecasting, surface water management. Soil hydrology. Soil water movement. Drainage, leaching and water disposal. Economics and benefits of erosion control. Evapo-transportation erosion/flood control measures, engineering and administrative measures. *Our use of the earth and its natural resources must be responsible with adequate care and sustenance as in Eden. Irresponsible use of our natural resources and introduction of hazardous substances will destroy our ecosystem as sin destroyed Eden.* Pre-requisites: BIOL 208, EVMT 202, or 307.

**EVMT 406: WASTE MANAGEMENT** **L:2, P:0, T:1** **3 Credits**

Types and forms of wastes. Sources of waste. Methods of solid, liquid and gaseous Waste management technology including wastes recycling and utilization. Institutional Arrangements for waste management. Environmental health effects of waste Management. Economics of waste management; waste management strategies. Case studies. *God bequeathed the earth and its natural resources unto us at creation for dominion, responsible use, care, keep and sustenance as in Eden with orderliness and beauty.* Pre-requisites: EVMT 202, 307.

**EVMT 408: WILDLIFE ECOLOGY, CONSERVATION AND MANAGEMENT** **L:1, P:1, T:1** **3 Credits**

The ecology of wild animals with special reference to their distribution, and natural history, as well as the application of the knowledge gained for wildlife management. Dynamics of wildlife population - factors affecting wildlife abundance and distribution, immigration and emigration in wildlife population; population structure analysis with respect to size, age-group, sex -ratio, reproductive, survivorship and recruitment. Techniques of wildlife investigation - Wildlife capture techniques, traps and designs, drugs immobilization, handling, care and feeding of captured animals; field exercises of different capture methods. Construction of life tables for wildlife populations and application of different sampling techniques in wildlife management. The niche concept - habitat studies of wildlife communities in major aquatic and terrestrial ecosystems of Nigeria. Territorial defense, home range of the individual species and populations. Implication of wildlife population dynamics for management and conservation of wildlife. *Visualization of ID in nature's diversity and a perfectly working Eden ecosystem with symbiotic relationship.* Pre-requisite: ZOOL 310.

**EVMT 410: PETROLEUM AND ENVIRONMENT****L:1, P:0, T:1 2 Credits**

Origin and composition of crude oil, composition of refined oils; extent, sources, fate and effects of oil in the environment. Characteristic of biogenic and petrogenic hydrocarbons; control of oil pollution. Oil pollution monitoring; sampling, sample containers. Extraction, clean-up, identification and quantification; Oil tagging. Use of bio-indicators in oil pollution monitoring. Biomarkers. *Natural resources like Petroleum are God's gift unto us for responsible use, care, keep and sustenance as in Eden. Irresponsible use of our natural resources creates imbalance in our ecosystem as sin destroyed Eden. Restoration of our ecosystem to perfect pre-sin Eden-type.* Pre-requisites: EVMT 202, BIOL 208 or EVMT 304, 305, 307, 407.

**EVMT 411: ENVIROMENTAL TOXICOLOGY I****L:1, P:1, T:1 3Credits**

History of toxicology, Biochemistry cellular and molecular toxicology. Biotoxins, Carcinogenesis, tetraogenesis and mutagenesis/genetic science, biotransformation of Toxicants. Systematic toxicology, toxic responses of blood, liver, kidney, respiratory systems, central nervous systems, skin, reproductive system, eye and the immune systems.

Practical: Demonstration to topical application contract tests, systemic activity of Pesticides. Acetylcholinesterases inhibition in insects in vivo and in vitro. Inhibition of Egg hatch in nematodes and chitin deposition in insects. Resistance tests in insects. Probit analysis. Effect of gamma irradiation on insect Development studies. Effect of morphogenic agents on larval and pupa development in Insects. – Auto radiographic studies. Bioassay of resistant/susceptible strains of insects, audiovisuals. *God bestows the earth and its natural resources unto us at creation for dominion, responsible use, care, keep and sustenance as in Eden.* Pre-requisites: EVMT 202, 307.

**EVMT 412: ENVIROMENTAL TOXICOLOGY II****L:1, P:0, T:1 3Credits**

Sources, fate and effects of different toxicants in the environment; pesticides, metals, Radiation and radioactive materials, plant and animal toxins, polyhalogenated compounds, Hazardous wastes, dusts, asbestos, plastics. Factors that influence toxicity, route of Administration, chemical and biological factors. Environmental toxicology, food Additives and contaminants, atmospheric, aquatic and soil pollutants. Clinical toxicology, Cosmetics and drugs, occupational toxicology and health. Autoradiography. Toxicity Testing. Future of toxicology in the developing countries i.e. regulatory and legal Requirements. *God bestows the earth and its natural resources unto us at creation for dominion, responsible use, care, keep and sustenance as in Eden.* Pre-requisites: EVMT 202, 411.

**EVMT413: EXPERIMENTAL PESTICIDE CHEMISTRY AND RESIDUE****ANALYSIS****L:0, P:1, T:1****2 Credits**

Sampling: Planning the sampling programme, sample containers, collection of various Environmental samples – water, Solid. Sediments, Vegetation, blood, milk, fish, invertebrates, birds, mammals, air, etc. Sample Preservation: Extraction and clean-up methods, instrumentation for pesticide Analysis, use of gas chromatograph for determination of pesticide residues; analytical Quality assurance; recovery and precision studies. Pesticide formulation analysis. Experimental designs and field/greenhouse trials on effect of pesticide on (a) growth and Yield of crops, (b) control of pests and diseases, (c) insect resistance probit analysis Screening of Nigerian herbs for pesticidal activities. Phytochemical characterization/ analysis of extracts of Nigerian herbs. Maintenance, trouble shooting and calibration of instruments. *The Garden of*



*Eden as a perfect model of a balanced environment before sin. Irresponsible use and introduction of pesticides metals will destroy our ecosystem as sin destroyed Eden. Restoration of our ecosystem to perfect pre-sin Eden-type.* Pre-requisites: EVMT 202, BIOL 208 or EVMT 06, 308.

**EVMT 414: WATER RESOURCES OF NIGERIA      L:1, P:0, T:1      2Credits**

Rainfall-pattern, spread and quantity. Daily, monthly and yearly rainfall in different Regions of the country. Rivers in Nigeria – main rivers and their flows, average flow, Maximum and minimum flow, annual yield. Rivers Niger, Benue, Ogun, Kaduna, Sokoto, Rima, Hadejia, Jamare, Gurara etc. Lakes and reservoirs, natural and artificial Lakes, reservoirs above dams – Kainji and Jebba. Tuga dams and reservoirs etc. Reservoirs behind small and medium earth dams in different states in Nigeria. Tidal and Saline waters in the coastal areas. Groundwater – in boreholes and tube wells. Use of Water – irrigation for agriculture, water supply and waste water engineering, navigation, Hydropower Generation, environmental sanitation, industrial use, etc. Agencies – Federal Ministry of Agriculture and Water Resources. Water Corporations. Department of Waterways and Navigation, River Basin Development Authorities, Research Institute, Universities. *Natural resources and endowments by the creator in the Genesis creation account are to be responsibly utilized for a perfect balanced pre-sin Eden-type environment.* Pre-requisites: EVMT 202, 301.

**EVMT 415: FOREST AND WILDLIFE POLICY, LAW AND ADMINISTRATION**

**L:1, P:0, T:1 2 Credits**

Environmental conservation laws and regulations based on the ecological concepts of environment, its natural resources and human anthropogenic activities. Forest, wildlife and related natural resources - policies, effective and sustainable economic and recreational use, administrative structure, and problems including conserving threatened and endangered species. Nigerian law on natural resources management. By extension, land-use, mining, petroleum exploration and exploitation, forestry and maritime laws and their effects on marine, aquatic and terrestrial natural resources. The enforcement tools - institutions, government, as well as various agencies saddled with responsibilities of taking custodian of the environmental natural resources of the country. Reference should be made to international environmental natural resources conservation interest groups and environmental conservation treaties and agreements to which Nigeria is signatory. *Honesty, equity and fear of the Lord in the dispensing and enforcement of the law as God is just.* EVMT 408.

**EVMT 417: BIODIVERSITY CONSERVATION AND MANAGEMENT**

**L:1, P:0, T:1 2 Credits**

Basic and practical objectives of biodiversity management and conservation in Nigeria. Development, management and conservation methods of the various biodiversity components and their natural habitats or ecosystems; genetic, species, ecosystems, diversity, distribution, factors influencing the distribution of biodiversity, global distribution, distribution in Africa, biodiversity hotspots, values of biodiversity – uses, non-use values, biodiversity and livelihoods, threats to biodiversity, measurement of biodiversity, biodiversity conservation approaches and options. Biodiversity administration and legislation; problems of enforcing biodiversity conservation laws and regulations. Government policy regarding biodiversity administration and management in Nigeria. Conservation of endangered species of fauna and flora of endemic status

and of economic importance and with reference to the United Nations Global Convention demands on biodiversity, that is “Biodiversity Convention”. *Natural resources and endowments by the creator in the Genesis creation account are to be responsibly utilized for a perfect balanced pre-sin Eden-type environment.* Pre-requisites: EVMT 202, 408.

#### **EVMT 419: PRINCIPLES OF RECREATION AND ECOTOURISM**

**L:1,P:0,T:1, 2Credits**

Tourism and recreation travel, origins, present characteristics and societal impacts, implication of non-business travel in Nigeria, and emerging importance of international recreation. Components of the tourism - park and recreation centre development system and the concepts of planning resource use at the larger-than-site scale. Physical and programme factors important to development for visitors’ use. Computer techniques for land assessment. Liaises with the Nigeria Embassy of the prospective visitor’s home country. Economic importance of tourism to local communities and state and national economies. Tourism regulations and advancement. *Natural resources and endowments are a perfect gift to us by the creator. They are to be responsibly utilized for a perfect balanced pre-sin Eden-type environment.* Pre-requisites: EVMT 202, 408.

#### **EVMT 420: NATURAL RESOURCES CONSERVATION AND ENVIRONMENTAL MANAGEMENT**

**L:1, P:0, T:1 2Credits**

Natural Resources, Concepts and definitions; Natural Resources Exploitation; Environmental and ecological implications of threatened and endangered natural resources; Sustainable use and conservation of natural resources. *Natural resources are a gift to by the Creator for responsible use, care, keep and sustenance as in Eden. Visualization of ID in nature’s diversity and a perfectly working Eden ecosystem with symbiotic relationship.* Pre-requisite: EVMT 301.

#### **EVMT 433: SEMINAR**

**L:0, P:0, T:2 2Credits**

The purpose of this course is to familiarize the students with effective use of the library, Preparation of project reports, papers for journal publication and journal reviews. Students should be given essays on topics of general interest from different areas of Environmental management.

#### **EVMT 490: RESEARCH PROJECT**

**L:0, P:6, T:0 6 Credits**

Independent research of a relevant identified environmental problem involving field and/or laboratory investigation with scientific presentation and oral examination. Students will be required to carry out literature survey on the topic, perform experiments under the guidance of an academic staff and produce written scientific reports. Students will be graded from the assessment of the Project Supervisor, the External Examiner’s Assessment and oral presentation before the Panel of Examiners. Students are mandated to submit four bound copies of the dissertation after the External Examiner’s Assessment.

#### **MBIO 411: PETROLEUM MICROBIOLOGY**

**L:1 P:1 T:1 3Credits**

This course will encompass the detailed study of the carbon cycle. Theories about the genesis of fossil fuels with emphasis on microbiological influence. Prospecting for oil by means of microbial indicators. Drilling: Corrosion of pipes and equipment – microbiology of the process. Acid mine drainage. Risks posed by bioleaching, physiology and genetics of *Thiobacillus ferrobacillus* and *Desulfovibrio* species. Environmental aspects of oil shale oxidation including

industrial waste disposal. Effects of oil spills on microbial ecology of seas and soils. Problems in transportation and storage – microbial decomposition of petroleum – economic considerations and control methods. Structure and recalcitrance of by-products of the petroleum industry including plastics, waxes, sprays, paints and oils. Fungal influence on these products. Equipment and models of experimentation in petroleum microbiology research. Relationships with other fields of petroleum technology. God endowed humanity with natural resources, it is our responsibility to judiciously use the given wealth.

## B.Sc. (Hons.) CHEMISTRY

### 100 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
	<b>*ELECTIVE COURSES</b>		
BIOL101	General Biology I	3	-
BIOL102	General Biology II	-	3
COSC 111	Introduction to Computer Science and Programming I	3	-
COSC 112	Introduction to Computer Science and Programming II	-	3
	<b>TOTAL (43/49 Credits)</b>	<b>20/23</b>	<b>23/26</b>

**\*Students are expected to take at least one elective course in each semester**

## B.Sc. (Hons.) CHEMISTRY

### 200 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	2	-
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 280	Leadership Skills	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
	<b>CORE COURSES</b>		
CHEM 201	Inorganic Chemistry I	3	-
CHEM 206	Quantitative Chemistry	-	3
CHEM 213	Organic Chemistry I	3	-
CHEM 214	Organic Chemistry II	-	3
CHEM 224	Electrochemistry	-	3
CHEM 233	Physical Chemistry I	3	-
CHEM 244	Analytical Chemistry	-	3
MATH 202	Ordinary Differential Equations I	-	3
	<b>*ELECTIVE COURSES</b>		
MATH 221	Mathematical Methods I	3	-
ICHM 204	Biophysical Chemistry	-	3
BIOL 201	Genetics I	2	-
	<b>TOTAL (46/47 Credits)</b>	<b>22/23</b>	<b>24</b>

\*Students are expected to take at least one electives course per semester

**B.Sc. (Hons.) CHEMISTRY****300 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
CHEM 309	Soil Chemistry	3	-
CHEM 310	Physical Chemistry II	-	3
CHEM 311	Introduction to Quantum Chemistry	3	-
CHEM 313	Inorganic Chemistry II	3	-
CHEM 314	Inorganic Chemistry (Laboratory)	-	2
CHEM 315	Organic Chemistry (Laboratory)	2	-
CHEM 317	Introduction to Spectroscopy	3	-
CHEM 321	Aromatic and Alicyclic Chemistry	3	-
CHEM 322	Stereochemistry and Poly-Functional compounds	-	3
CHEM 360	Student Industrial Work Experience (SIWES)	-	6
CHEM 332	Separation Techniques and Instrumentation	-	3
	<b>*ELECTIVE COURSES</b>		
CHEM 325	Environmental Chemistry	3	-
CHEM 326	Colloidal Chemistry	-	3
CHEM 334	Chemistry and Technology of Lipids	-	3
BCHM 334	Enzymology I	-	3
	<b>TOTAL (44 Credits)</b>	<b>25</b>	<b>19</b>

\*Students are expected to take one elective course per semester.

**B.Sc. (Hons.) CHEMISTRY****400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 440	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
CHEM 402	Organic Synthesis	-	3
CHEM 406	Organometallic Chemistry	-	3
CHEM 417	Spectroscopy	3	-
CHEM 421	Organic Reaction Mechanism	3	-
CHEM 424	Coordination Chemistry	-	3
CHEM 425	Advanced Chemical Kinetics	3	-
CHEM 433	Seminar	2	-
CHEM 435	Physical Chemistry Laboratory	1	-
CHEM 436	Radiochemistry and Nuclear Chemistry	-	3
CHEM 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
CHEM 423	Instrumental Analysis	3	-
CHEM 429	Quantum Chemistry	3	-
CHEM 431	Natural Products	3	-
	<b>TOTAL (40/43 Credits)</b>	<b>18/21</b>	<b>22</b>

\*Students are expected to take at least one elective course per semester.

## **B. Sc. (Hons) CHEMISTRY COURSE DESCRIPTIONS**

### **CHEM 101: GENERAL CHEMISTRY I                      L: 2, P: 1 T:1                      3 Credits**

The course introduces beginners to the concepts of Chemistry and the common chemical phenomenon in our environment. These concept includes; Measurements, concentration units, Thermochemistry, atomic structure, periodicity, nomenclature, chemical bonding, states of matter, colligative properties, redox, acids/bases, gases, concentration units, states of matter. Prerequisite: Secondary school chemistry, algebra or concurrent enrollment in General Mathematics. This course allows us to understand the foundation of creation and makes us realize the creativity, mightiness and presence of God in everything on earth. It also enable us to know that all what we are doing is just exploring things that God already created and everything is created by Him.

### **CHEM 102: GENERAL CHEMISTRY II                      L: 2, P: 1 T:1                      3 Credits**

This course is a build-up on chemistry 101. It introduces more basic concepts of chemistry that involves chemistry of elements and organic chemistry. Kinetics, equilibria, electrochemistry, descriptive inorganic chemistry of main groups I,II, III, IV, nuclear chemistry, introduction to biochemistry(carbohydrates, disaccharides, proteins, lipids, nucleic acids), introduction to organic chemistry: functional group chemistry, isomerism, nomenclature, hybridization, etc. Prerequisite: CHEM-101 and concurrent enrollment in General Mathematics 2. This course further introduces us to understand more of Gods creativity and both animate and inanimate things he created are related to each other.

### **MATH 101: GENERAL MATHEMATICS 1                      (L 30: P O: T O)                      3 Credits** **(Algebra and Trigonometry)**

Elementary set theory, subsets, union, intersection, complements, venn diagrams. Real numbers; This course focuses on elementary set theory, (subsets, union, intersection, complements and venn diagrams), rel numbers, integers, rational and irrational number, mathematical induction, real sequences and series, theory of quadratic equations, binomial theorem. The course also deal with complex numbers; algebra of complex numbers; the argand diagram, De moivre's theorem, nth wob of unity. Circular measure, trigonometric functions of angles of any magnitude, addition and factor formulae. Here we teach the basic ideas of the concepts so that the foundation is built to lead to excellence.

### **MATH 102: GENERAL MATHEMATICS II                      L.30 P.O: T 15                      3 Credits** **Calculus**

The course deals with functions, limits of functions; and the idea of continuity. The course also emphasize on the derivative as limit of rate of change, techniques of differentiation. Extreme curve sketching; integration as an inverse of differentiation methods of integration, definite integrals and application to areas and volume.

God wants us to know that change is the only constant thing in life. He is the one that allows "change" to happen in every existence. Here, again attention is paid to minute changes, teaching carefulness which leads to excellence.



**PHYS 101:                    GENERAL PHYSICS I: L 30: P0:T 15                    3 Credits**  
**(Mechanics, Thermal Physics and Waves)**

This course emphasizes on number systems and operation to real life problems. Number bases expressions; Basic notions of equations and inequalities and methods of solutions with application. Interests (simple and compound).

God is the Creator of all numbers. For instance, the natural numbers also called the counting numbers were created and first used by God. Any time we use these numbers, our attention should be drawn to God who created the numbers for our use.

**PHYS 102:                    GENERAL PHYSICS                    L30:P0:T 15                    3 Credits**  
**(Electricity, Magnetism and Modern Physics)**

Electrostatics; conductors and currents; dielectrics; magnetic fields and induction; Maxwell's equations; electromagnetic oscillations and waves; applications.

**BIOL 101:    GENERAL BIOLOGY I                    L;2, P:1, T:1                    3 Credits**

The aim of the course is to understand some basic concepts in Biology. Activities of living things. Basic cell types: Prokaryotic and Eukaryotic cells. Cell structure and organization. Function of cellular organelles. Mitosis. Meiosis and heredity. Characteristics and classification of living things. Reproduction. Interrelationship among organisms. Relationship between structure and function. Biology as a discipline is richly represented in the pages of the Bible. The course emphasizes the beauty of God's creation from the simplest 'cell' to a more complex 'whole organism' (Ps 139v13-14)

**BIOL 102:    GENERAL BIOLOGY II                    L;2, P:1, T:1                    3 Credits**

The course aims to understand the diversity of living things. A brief account of the evolution of plants: Bacteria, Fungi, Algae, Lichens, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms. The major characteristics, structure and physiology of each group. Ecology and types of habitat. Diversity of life-Acellular animal (protozoa), Coelenterates, Acoelomate animals (Platyhelminthes). Nematode, Mollusca, Arthropods, Echinodermata, Chordates concept of ecology of the organisms. God created the all living things both plants and animals as recorded in Gen 1 and also showed Himself as the first Biologist accurately describing the behaviours and features of some of these organisms (Job 39 v 1-30)

**COSC 111, 112:    INTRODUCTION TO COMPUTER SCIENCE AND  
PROGRAMMING I, II                    L:2,P:1                    3 Credits**

Introduction to programming methodology using the C++programming language. C++ basic parts, data types, control structures, arrays, functions, searching and sorting, algorithm development. Basic class concepts- constructors/destructors, operator overloads, inheritance, program style, program design, code documentation techniques, and program correctness. Procedural and object oriented programming. File processing. Stacks and queues.

**CHEM 201:    INORGANIC CHEMISTRY I                    L: 2, P: 1, T: 1                    3 Credits**

The course deals with theoretical concepts of how atoms react with each other, new concepts about what is an acid or base and physical and chemical properties of more elements in the periodic table. Review Nature of Atom, Neil's Bohr's Postulation of electron, Nature of

Electron-particles or waves; Structure of Simple covalent molecules, Sidgwick-Powell Theory of Molecules; Molecular Orbital Theory; Physical Properties of Elements; Complex Ion Formation; Application of Redox Potential; Concepts of Soft and Hard Acids and Bases; Comparative Chemistry of Groups V, VI & VII Elements; Application of some important Inorganic Chemicals in Chemistry, Agriculture, Medicine and Industry. Prerequisite: any of CHEM 101, 102, 103, 104, 105, or 106

We learn in this course that God understands the fundamentals of everything because He created them and they all work in unison for our own use. This course shows us how God operates at the microscopic and macroscopic level and confirms that He pay attention to everything about our life.

**CHEM 233: PHYSICAL CHEMISTRY I L. 1, P 1 T. 1. 3 Credits**

This is the first course in chemistry that explains forms of matter and studies the physical properties and other phenomenon of matter like heat and chemical equilibrium. States of matter, Kinetic Theory of Gases, Boyle's law; Charles law, Graham' law of diffusion, molecular velocity and their distribution, chemical thermodynamics, Heat capacity and Joule's experiment, laws of thermodynamics, Clausius-Clapeyron equation; thermo-chemistry; chemical Equilibrium. Le Charteliers-Braun. Prerequisite: General Mathematics I and II.

God creates man as body, soul and spirit. These are different entities all behaving differently but working in unison. So likewise God created different phenomenon which have different behavioral characteristics but works in unison.

**CHEM 205: SCIENTIFIC RESEARCH METHODOLOGIES AND REPORT WRITING  
L2 P0 T0 3 Credits**

The course deals with how to conduct and organized a scientific research and how to write a scientific report. Obtaining scientific information (empirical and deductive science), principles of research design (qualitative and quantitative), elements of scientific data, test of questions and hypothesis, collection of data (experimental), précis of statistical analysis, communication of scientific information (writing reports, presentation (talk, poster, proposal), the scientific paper (organization, tables, figures, analysis), appraisal and utilization of research paper

God has a plan for every human life on earth. The plan is organized and already known before a human life is created. So when we arrive here, there is already a plan laid out on how to live our life.

**CHEM 206: QUANTITATIVE CHEMISTRY 2 P1 T1 3 Credits**

The course is aimed at studying how to do quantitation of reactions that involve matter. Different ways of quantifying chemical reactions are discussed. The theory of quantitative chemistry is extended to both qualitative and quantitative chemical analysis with introductory practice in UV-visible spectroscopy, electrochemistry, and separation science. Tools of the Trade, Analysis of Experimental Data: Statistics: Gaussian error curve, mean values, standard deviation, probability. Student t-test, confident intervals, comparisons of means, dealing with bad data, finding the best straight line, method of least squares, how reliable are least squares parameters and practical examples of least squares, Basic Principles of Precipitation and Back Titrations: Precipitation titrations: principles and calculations of volumetric analysis, mass titrations, the shape of a precipitation titration curve (before and after the equivalent point, at equivalence point) titration of a mixture, end-point detection, Acid -Base Equilibria: Strong acids and bases,

weak acid and weak bases, weak acid and weak base equilibria, buffers (preparation, capacity, limitations, and Henderson-Hasselbalch equation) Acid Base Titrations: Titration of strong acid with strong base, titration of weak acid with a strong base, titration of a weak base with strong acid, titration with diprotic systems, finding the end points, Complexometric titrations (EDTA titrations, Spectrophotometry: Introduction and Application of Ultra Violet Light : Introduction and application of Ultra Violet light; instrumentation, Beer- Lambert law, serum iron determination with UV spectrophotometer, Introduction and Application of Ultra Violet Light: Spectrophotometry I: Introduction and application of Ultra Violet light; instrumentation, Beer- Lambert law, serum iron determination with UV spectrophotometer, Chromatographic Separations: Solvent Extraction, paper, column chromatography.

**CHEM 213: ORGANIC CHEMISTRY I L:1 P:1, T.1. 3 Credits**

The course describes what types of molecules are described as organic compounds and the energies involve in the reactions of such compounds. Kinetics and Energetics of Reactions; Hydrocarbons, Multiple Bonds; Aromatic Compounds; Chemistry of C-Halogens Bond; Chemistry of Hydroxyl group; Ethers, Thiols and Thioethers.

Our behavior on earth varies because we are wired differently. So every man is different from the other. Even though we are made of the same type of cells, we are still different from each other. God has made inanimate molecules in the same way as animated objects and makes all to work together to show his Excellency and all things that He made is good.

**CHEM 214: ORGANIC CHEMISTRY II L. 1 P: 1, T.1 3 Credits**

This course further deal with the chemistry of various organic compounds, their reactions, and industrial use. Amines and Derivatives; Chemistry of the Carbonyl group; Chemistry of Carboxylic Acids and Derivatives; Sulfuric Acids; Some Important types of Natural Products – Lipids, Carbohydrates, chemistry of Amino Acids and Proteins.

The diversity of creation is enormous so also is the diversity of organic molecules. All are made by God for man's use. Psalm 8 vs. 1 says “ O lord my God how excellent is your name. Our Lord is awesome and wonderful.

**CHEM 224: ELECTROCHEMISTRY L 2 P 1 T 1 3 Credits**

The course deals with equilibrium reactions that is common in nature, reactions that involves absorption or release of heat and what happens when electrical voltages are applied to solutions of chemicals. Chemical equilibria, Ionic equilibria, Conductance, theory and measurement, interpretation of data for strong and weak electrolytes conductance and transport processes. Thermodynamics and galvanic cells, standard electrode potentials, practical electrode. Molecular forces in solid and liquids, Dipole moment. Interaction potentials and forces. Reversible galvanic cells, measurement of e.m.f. Electrode potential and electrochemical series. Standard state and the Nernst equation. Applications of e.m.f. measurement (excluding thermodynamic relationship). Potentiometric titration including measurement of pH. Redox reactions. The electrical double layer and its applications. There are different situations that exist in our life that God intervenes to steady it. Those situations are like a chemical reaction that produces a product. Therefore, God's interaction with situations in your life always produces positive result and move situations.

**CHEM 244: ANALYTICAL CHEMISTRY (L. 1, P.1. T.1.) 3 Credits**

The course explains the theory and types of errors that are involved in laboratory work and how to calculate the errors. It further deals with optical methods of monitoring chemical reactions. Theory of errors, statistical treatment of data, and theory of sampling, chemical methods of analysis including volumetric, gravimetric and physicochemical methods, Optical methods of analysis, Separation methods. God monitor every aspect of our life and it is monitoring is error free. God is able to do this because the Bible tells us that God is a spirit. Humans cannot do anything with no margin of error but God made everything good and perfect. For example creating man does not have error. All what God made is perfect and error free. It is only when we do what we are supposed not to do (sin) that we introduce error into our life and we fall sick i.e. we introduce error into our life

**MATH 221: MATHEMATICAL METHODS (L.30 P.O: T I) 3 Credits**

The course aims at teaching real – valued function of one, two and three variables, differentiation and integration of functions of two or three variables. Mean – value theorem and Taylor series expansion of real – valued functions of up to three variables. Emphasis is placed on Partial derivatives of functions of up to three variables, Lagrange’s Multiplier of linear approximation, Increment, Evaluation of line integral and multiple integrals is also considered. The course teaches the concept of dependent and independent variables of 1 – 3 variables. Going through the course given ability to differentiates, not function of one variable but also functions of several variables. This is an added knowledge.

**MATH 202: ORDINARY DIFFERENTIAL EQUATIONS I (L.30 P. O.: T 15)  
3 Credits**

**(Equations 1): Pre-requisite – MATH 103**

The course teaches and establish the concept of existence and uniqueness of solution of ordinary differential equation. Different methods of solution and general theory of first order to higher order differential equations, Laplace transformation, solution of initial value problem by Laplace transform method. The student is also introduced to simple treatment of partial differential equations in two independent variables. Emphasis is placed on applications of Ordinary Differential Equation (ODE) and Partial Differential Equations (PDEs) to physical, life science, natural science, finance and medical sciences etc. From the course we can see that the solution to a differential equation is unique (Existence and Uniqueness of Solution), in the same way the bible teaches that the only true source of solution to the problems in this world can only be found in Jesus Christ, and that just as solutions of equations exist, so God also exists.

**ICHM 204: BIOPHYSICAL CHEMISTRY (L 2. P 0. T 1) 3 Credits**

This course deals with understand the anatomy and physiology of human beings and the biochemical interactions in the body. The anatomy and physiology of the human body. Anatomy of the nervous system, smooth and voluntary muscles. Autonomic pharmacology. The endocrine glands, its function and roles. Components of blood and coagulation. Ventilation. The gastro intestinal system. Excretory organs and their functions. Homeostasis, urine formation acid –base balance, role in maintenance of blood volume and pressure. Introduction on pharmacology. Classification of drugs. Theories of drug action. Dose-response curves, antagonism, principles of drug metabolism and excretion. Drug screening, bioassay, drug toxicity.

This course allows us to know the architecture of our body and the food that we eat. Both interacts together to support life by the design of God Almighty. No human inventions are so perfect and complex as these two systems. It shows that God is perfect and great.

**BIOL 201: GENETICIS I L.2, P:1, T:1 2 Credits**

**Pre-requisite: BIO 101**

The course aims to understand how traits/characters are transferred. Heritable and non-heritable characters. Mendelism. Probability and test of goodness of fit Quantitative inheritance. Source and applications of variation in genome structure. Extranu clear polygenic inheritance. Introduction of population genetics: Hardy-Weinberg theory, gene frequencies etc. pre-requisite: BIO 101. Spiritual genetics began from God in Gen 1 v 27. He made man in His image and seek to see man replicate His nature. Jesus used various examples to illustrate traits' transfer from parent organisms to their offspring (e.g. Mk 7 v 16-18).

**CHEM 313: INORGANIC CHEMISTRY II L 2. P 0. T 1 3 Credits**

The course deals with inorganic transitional compounds, compounds that form dimers and crystals and the shape theory of how the lattices of the crystal are formed. Theories of valence, ionic lattice and molecular shape; oxo-acids, their structure and properties; Binary compounds, structural treatment of boride, nitrides, carbides, oxides and halides; Chemistry of transition elements, first, second and third series. Lanthanides, actinides; Hydrides, electron deficient compounds and boron chemistry.

There are different aspects in our life and God is present in every aspect. He mold us according to these different aspects that is why we are different.

**CHEM 317: INTRODUCTION TO SPECTROSCOPY L2 P1 T 1 3 Credits**

The course focuses of the theory of physical methods of measuring physical chemical phenomenon's. The origin of spectra, wavelength, wave number, frequency and quantum relationships, laws of absorption. Principles and instrumentation of UV, IR, NMR 13C spectroscopy and mass spectroscopy to the determination of structure of organic compounds, Raman and Mossbauer spectroscopy

Just as there are numerous physical phenomenon's in the world that we need to evaluate, the same way the bible asks us to seek God always. There are different ways to seek the face of God. We can go through prayer, fasting, speaking in tongues, praising Him, dancing, singing etc. All these methods will lead us to know the nature of God.

**CHEM 309: SOIL CHEMISTRY L2.P.1.T.O 3 Credits**

The course describes the chemistry of nutrients in the soil and their movements. Colloid chemistry and surface properties of soils, Chemical and physical make up to soils. Soils of Nigeria, macronutrients and micronutrients, Depletion and replacement of nutrients under different kind of cultivation, fertilizer requirements, selected economic aspects of fertilizer importance and manufacture

The bible says we should guard our heart because that is where the issues of life come out. The soil is where we get all foods we eat to sustain life. Therefore we must know it and understand it.

**CHEM 310: PHYSICAL CHEMISTRY II      L1 P1 T1      3 Credits**

This is an advanced course that describes some physical phenomenon in chemistry and what happens to matter when subjected to heat and other forms of energy. Chemical kinetics, catalysis; electrochemistry, Hess Law, thermodynamic treatment of equilibrium (entropy, Gibb's free energy), third Law of thermodynamic, colloids, Debye-Huckel theory, electrochemical cells, Nernst equation Prerequisite: Chem. 203

The mightiness of God is unbelievable and we should revere him for all the wondrous things He has done. He made the earth and the Heavens and all that is therein. His awesomeness will always be revealed to us from time to time. The world is held together by different principles that needs to be learned and master.

**CHEM 311: INTRODUCTION TO QUANTUM CHEMISTRY    L3P0T0    3 Credits**

This course deals with the theory of electromagnetic waves and what happens at subatomic level. Review of the Atomic Theory and Electromagnetic waves, (electronic structure, Bohr's theory of atoms), Introduction of quantum mechanical concepts by reviewing of experiments which cannot be explained by classical physics, the beginning of wave mechanics (wave equation, Hamiltonian equation, meaning of the wave equation), the hydrogen atom, the hydrogen atom orbitals, with a basic treatment of angular momentum (states derived from electronic configurations), hydrogen atom orbitals (s, p, d, f orbitals), The states derived from Electronic configurations, electron spin, exclusion principle, Aufbau principle, Hund's rule, ionization energy and electron affinity.

It is only God who knows how all the parts of your body work. Up till today scientist are trying to unravel the mystery surrounding the body of man. It is only God who made man that can know the basis of life and how the things are assembled together.

**CHEM 314: INORGANIC CHEMISTRY LABORATORY    L0 P2 T0    2 Credits**

**Pre-requisite: CHEM 313**

God has created the five- fold ministries in the church for the progress of His work and the edification of the saints. He has created many compounds that make up the universe that we have to know how to make and use them. He created all things for His pleasure.

**CHEM 315: ORGANIC CHEMISTRY LABORATORY L0 P2 T0      2 Credits**

This course focuses on laboratory methods of preparing and separating organic compounds. Organic compounds, including separation, instrumental methods of analysis and identification.

**PREREQ: CHEM 314**

The different ministries in the church play an important role. We must play our part in the ministry that we are called and contribute to the progress of the church just as each compound has its own use.

**CHEM 321: AROMATIC AND ALICYCLIC CHEMISTRY    L 2 P 1 T 1    3 Credits**

This course deals with the chemistry and reactions of ring compounds called aromatics, their derivatives, and the reactions of some straight chain compounds. Benzene: Natural occurrence properties, stability of benzene, canonical structures of benzene, Kekule, Dewall. Aromaticity: classical treatment, comparison of aromatic and non-aromatic systems; Polynuclear aromatic hydrocarbons (PAH), Types, occurrence. Canonical forms, reactivity of different positions in naphthalene, phenanthrene and anthracene; Important aromatic compounds and derivatives, Natural sources, synthesis and properties; Nucleophilic substitution reaction in aromatic systems;

Alicyclic compounds, types of compounds, nomenclature of polycyclic alkanes, synthesis of alicyclic compound and special reactions, strain theory, conformational analysis.

Adultery and fornication is a twin evil in the life of a man. They are similar and will have similar negative effect on man. Both are different but as well as the same and have the same effect on life.

## **CHEM 322: STEREOCHEMISTRY AND POLY-FUNCTIONAL COMPOUNDS**

**L2 P0 T1**

**3 Credits**

The course focuses on the configuration of organic compounds that have many functional groups, their preparation, types and example of important natural ones. Stereochemistry of compounds (with symmetric carbon- biphenyls, R, and S specification of configuration), Important methods of preparation, and reactions: of halogen acids, hydroxyacids, lactones, dicarboxylic acids, unsaturated ketones and epoxides. Blanc's rule, preparation and synthetic applications of aceto acetic ester and malonic ester, tautomerism, Heterocyclics with one heteroatom (furan, thiophene, pyrrole, pyridine, quinoline and isoquinoline), Heterocyclics with more than one heteroatom (pyrazole, imidazole, oxazole, pyridozine, pyrimidine, pyrazine, thiazine, oxazine with reference to important natural products like vitamins, purine nucleic acids etc.

God reveals Himself to us in a mysterious ways. He shows Himself in diverse ways and whenever He does so, we become anew. God focuses on your inner man to perfect us.

## **CHEM 360: STUDENT INDUSTRIAL WORK EXPERIENCE (SIWES) 6 Credits**

This course is a hands-on course which gives the student the experience of how chemistry is practiced in an industrial setting. Student Industrial Work Experience 3 months. Living a Godly life is a practical thing and we must experience it to know it

## **CHEM 325: ENVIRONMENTAL CHEMISTRY L2 P 0 T 1 3 Credits**

The course focuses of on the chemistry of the environment. Biogeochemical cycles ( $H_2$ , C, N cycle), components of the air and atmosphere, environmental pollution (Air, Water, solid wastes, waste water), organic and domestic waste treatment, management effluents case studies, Waste recycling.

God wants us to master our environment through His guidance. That is why he mandated us to flourish and replenish the earth with the help of the Holy Spirit. If we allow God to take control of our life, He would let us be able to control our life.

## **CHEM 326: COLLOIDAL CHEMISTRY L2.P.1.T.O 3 Credits**

The course deals with the chemistry of compounds that are suspensions of solids in liquids. Definition of colloid, history of colloidal development, irreversible systems: Lyophobic sols (dilute suspensions), emulsions, foams, Pastes (concentrated suspensions) Gel structures. Reversible processes: Polymers- addition, condensation and radical. Proteins and protein structures, gels, association colloids, (Soaps and dyes), Detergency.

The bible wants to know that there are different people with different characters just as we have different compounds with different physical properties. We have to study them and only imbibe the ones that reflect His character.

**CHEM 332: SEPARATION TECHNIQUES AND INSTRUMENTATION L0 P 2 T 0****3 Credits**

This course describes different methods of separating mixtures which are very common in nature. Distillation, sublimation, solvent extraction, chromatography: gas, liquid, absorption, partition, paper, column and thin layer: ion exchange, gel filtration, electrophoresis, High performance liquid chromatography (HPLC), GC. Spectroscopic techniques: ultraviolet and visible methods. UV/VIS spectrophotometric titrations, photoluminescence, fluorescence and phosphorescence spectrometry; flame emission; atomic absorption spectrometry (AAS); Infrared spectroscopy (IR), Nuclear magnetic resonance (NMR); Mass Spectrometry, Electron spin resonance spectroscopy (ESR); Polarimetry, Colorimetry. Prerequisite: Pre-requisite: Chem. 242

God says he will separate the whiff from the chaff on the judgement day. So, we have to be careful in how we live while we are on earth. We must live and learn how to separate good and Godly living from bad and worldly life.

**CHEM 334: CHEMISTRY AND TECHNOLOGY OF LIPIDS L 2 P 0 T 1 3 Credits**

The course deals with what are fats and lipids which are similar compounds; we discuss how to make them and their chemical reactions. Definition and classification of lipids; Role and use of lipids in foods; glyceride composition and structure; Physical characteristics of lipids; Chemical reactions of lipids; Lipid oxidation and antioxidants; Technology of processing fats and oils; Effect of processing on functional properties and nutritive value.

**CHEM 421: ORGANIC REACTION MECHANISMS L.2.P.1.T.0 3 Credits**

This course deals with the different types of reactions that occur in organic reactions and its mechanism. Methods of determining reaction mechanism, critical treatment of Nucleophilic substitution at saturated carbon, electrophilic addition to multiple bonds, elimination reactions, electrophilic aromatic substitution and nucleophilic aromatic substitution, Steric effects, neighboring group participation, molecular rearrangements, radical reactions, pericyclic reactions

There are different events that happen in life and there is a way God intervenes in every one of it. When he intervenes we get a different and intriguing experience

**CHEM 402: ORGANIC SYNTHESIS L2.P.1.T.O 3 Credits**

The course focuses on the different methods of creating new organic compounds. Review of some notable methods is discussed in this course. Critical review of important reactions, reagents, methods including the mechanism, applications for synthesis of important and complex organic compounds

We are given different gift of the ministry but one spirit. The diverse gifts do different things and we must learn it.

**CHEM 406: ORGANOMETALLIC CHEMISTRY L2.P.1.T.O 3 Credits**

This course focuses of the chemistry of compounds with Carbon- metal bonds. Survey of the organometallic chemistry of the representative elements (preparations, reactions, uses), detailed chemistry of the more important organometallic compounds- Mg, Li, Al, the Grignard reagents. Organometallic compounds of the transition elements. Ethylenic and acetylenic complexes, the cyclopentadienyls, ferrocene, benzenoid metal complexes, Chemistry of the metal carbonyls and related compounds, organometallics in Catalysis, Industrial applications.



The whole world is a complex one with varieties of substance created by God The diversity is so great and complex that it reveals the mightiness of God.

**CHEM 423: INSTRUMENTAL ANALYSIS L0 P3 T0 3 Credits**

This course focuses on the use of different analytical instruments and methods on analyzing chemical compounds. Topics to be discussed include: Classification of analytical methods, types of instrumental methods, instruments for analysis, calibration of instrumental methods, selecting an analytical method, UV Determination of the Benzene Impurity in cyclohexane; Analysis of PABA in Suntan Lotions by UV, Analysis of Calcium in Antacids Tablets by Atomic Absorption spectroscopy, Quantitative determination of xylenes by FTIR, Analysis of Ascorbic Acid by a Constant Current Coulometric Titration, Analysis of Menthol in a Cough Lozenge by Gas Chromatograph, Determination of Caffeine, Acetaminophen and Aspirin in Analgesic Tablets by HPLC using a Single Standard Mixture, Determination of Caffeine, Acetaminophen and Aspirin in Analgesic Tablets by HPLC using a Calibration Curve, Determination of Caffeine, Acetaminophen and Aspirin in Analgesic Tablets by HPLC using Acetonitrile Mobile Phase, Characterization of Hydrocarbon Mixtures by Gas Chromatography Mass Spectroscopy.

Pre-requisite: CHEM 206 and CHEM 332.

The words of God that are sharper than the edged sword and it discern every single situation of our life. So the word of God explains and analyze every situation in our life.

**CHEM 425: ADVANCE CHEMICAL KINETICS L2.P.1.T.O 3 Credits**

**(i) Complex reaction systems:**

Distinction from simple (elementary) reactions

Examples of complete reactions

Concurrent reactions, Opposing reactions, Consecutive reactions, Radical Reactions

**(ii) Theories of reactions rates:**

Collision theory and absolute rate ( or Transition State) theory. Relationship between the two theories. Theory of unimolecular reactions. Lindermann's theory, Modification and treatments by Hinshelwoods's RRK; Slater's rrkm

**(iii) Absorption of radiation during chemical reactions:**

(a) Photochemistry: quantum fields, transitions causing fluorescence and phosphorescence; photosensitization; flash photolysis. Applications.

(b) Radiation Chemistry: interaction of radiation with matter, ions and electrons. Pulse radiolysis. Applications

**(iv) Chemical reactions at electrodes: current controlled and diffusion controlled reactions. Applications.**

**Course Description**

This course is an advance course in chemistry that deals with theories of how fast or slow a reaction is and what happens to a chemical when absorbs an electromagnetic radiation

- i) **Complex reaction systems:** Distinction from simple (elementary) reactions, Examples of complete reactions, Concurrent reactions, Opposing reactions, Consecutive reactions, Radical Reactions
- ii) **Theories of reactions rates:**  
Collision theory and absolute rate (Transition State) theory, relationship between the two theories, theory of unimolecular reactions, Lindeman's theory, Modification and treatments by Hinshelwood's RRK; Slater's RRKM theories
- iii) **Absorption of radiation during chemical reactions:**
- iv) Photochemistry: quantum fields, transitions causing fluorescence and phosphorescence; photosensitization; flash photolysis. Applications.
- v) Radiation Chemistry: interaction of radiation with matter, ions and electrons. Pulse radiolysis. Applications
- vi) **Chemical reactions at electrodes:** current controlled and diffusion controlled reactions. Applications.  
The effect of prayers shows up at different rates in our life. How fast it works depends on your closeness to God. There are different kinds of prayers but all works at different rates.

**CHEM 429: QUANTUM CHEMISTRY L2.P.1.T.O 3 Credits**

This course is an advanced course in chemistry that deals with what happens at subatomic levels. Quantum chemistry including quantum mechanics and statistical thermodynamics, relationships between the various bonding theories-balance bond, molecular orbital, LCAO and non- paring spatial theory, postulates of the quantum theory. The Schrödinger equation and the particle in a box problem, treatment of the hydrogen molecule ion, the hydrogen molecule and many electron atoms, perturbation and variation methods

God gets to the bottom of every situation in order to know what is wrong because he made everything and without Him everything that was made will not be made. He understands everything that goes on at the microscopic level

**CHEM 417: SPECTROSCOPY L2. P.1.T.O 3 Credits**

This course describes the theory of how compounds with many ligands are configured and formed. Definition, Recognition and Applications of coordination compounds, nomenclature, Coordination formula and isomerism in complexes. Stereochemistry of complex molecules, theories of structure and bonding, physical methods of structural investigation, magnetic properties, Absorption and Vibrational spectra, spectro chemical series, The Nephelauxetic series and the Jahn- Teller distortions. Stabilization of unusual oxidation states by complex formation. Thermodynamic stability of complex compounds, the stability constant, the chelate effect. Preparation and reactions of complexes, Kinetics and mechanisms

God meets each individual in different ways. The ways are so diverse and complex that it takes the initiated to understand it. That is why he said that only the deep can call the deep.

**CHEM 424: COORDINATION CHEMISTRY L2.P.1.T.O 3 Credits**

This is an advanced course of physical methods of measuring physical phenomenon in chemistry that helps to identify the structure of the compound. Application of UV, IR, NMR spectroscopy and mass spectroscopy to the determination of structures of organic compounds. Prerequisite: CHEM 317.

There are different measures of the Holy Spirit in every one of us. The amount of the measure is reflected in how the Holy Spirit works in every one of us.

**CHEM 431: NATURAL PRODUCTS                      L2P1T0                      3 Credits**

The course deals with the chemistry of products that are natural in the environment. Chemistry to terpenoids, steroids and alkaloids, general methods of isolation, separation, purification and structural determination of the natural products, classifications, Discussion of chemistry of important members including uses, Biogenesis.

Everything around us was made by him for the use of man. So we have to obey his command to explore and know everything in our environment.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE  
3 Credits**

The focus of the Capstone Course is on Biblical origin of chemistry, showing God as the Arch-Chemist, Creator and Designer Who established chemical properties and principles.

The awareness that our efforts in studying chemistry is an act of fulfillment of God's words that knowledge shall increase, (Book of Daniel). We have to be aware that whatever findings of our research in chemistry is, it is permitted by God and had to be for the benefit of Man. Aspects of God's ruling in Chemistry should be emphasized.

**CHEM 433:                      SEMINAR                      L.0.P.6.T.O                      2 Credits**

This course deals with learning how to make scientific presentations. Under the supervision of a staff each student is expected to select a topic for detailed study based on literature search. Emphasis is on recent advances in chosen field of Chemistry. The study shall be presented at a seminar and a write up shall be submitted to the department. We must attend the assembly of God to hear the word of God and appreciate him more.

**CHEM 436: RADIOCHEMISTRY AND NUCLEAR CHEMISTRY    L2.P.1.T.O  
3 Credits**

This course focuses on the chemistry of chemicals that undergo nuclear decay. Natural radio actions, fusion, fission, decay processes, nature of radiation, nuclear models, energetic of nuclear reactions. Principles and measurement of radioactivity, application of radioactivity- activation analysis isotope exchange reactions, isotopic dilution and trace analysis in kinetic and equilibria studies, reaction mechanisms, Radiation hazards.

God operates at different levels of our life and his ways are mysterious just as nuclear radiation are mysterious. He performs His wonders in a miraculous way.

**CHEM 490: RESEARCH PROJECT                      L.0.P.6.T.O                      6 Credits**

This course deals with performing a project and how to write the report on the project. Independent research into selected areas or topics of interest, Student will be required to carry out literature survey on the topics, perform experiments under the guidance of an academic staff

and procedure reports (preferably at the end of second semester). Students will be subjected to both seminar and oral examination on the projects undertaken.

We can classify the different ways of knowing God into classes such as crusade, revival, prayer meeting etc. The bottom line is to know God be subjected to both seminar and oral examination on the projects undertaken.

### **LABORATORY FACILITY**

There are 2 Laboratory spaces in the Unit and a Central laboratory in the School of Basic and Applied Sciences. These laboratories are equipped with newly acquired modern equipment like the UV, TLC, GC, HPLC and AAS and are made accessible to all registered students.

### **B.Sc. (Hons) MATHEMATICS 100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in Global Culture	-	2
	<b>CORE COURSES</b>		
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
MATH 104	General Mathematics III	-	3
STAT 113	Descriptive Statistics	3	-
COSC 111	Introduction to Computer Science and Programming I	3	-
COSC 112	Introduction to Computer Science and Programming II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
	<b>*ELECTIVE COURSES</b>		
STAT 112	Probability I	-	2
STAT 121	Statistical Inference 1	2	-
	<b>TOTAL (47 Credits)</b>	<b>22</b>	<b>25</b>

\*Students are expected to take one of the elective courses per semester.

## B.Sc. (Hons) MATHEMATICS

### 200 LEVEL COURSES

200 LEVEL COURSES			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	2	-
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution		2
GEDS 280	Leadership Skills		2
GEDS 290	Spreadsheet and Digital Presentations		2
	CORE COURSES		
MATH 202	Ordinary Differential Equations I	-	3
MATH 203	Sets, Logic and Algebra	3	-
MATH 208	Real Analysis I	-	3
MATH 220	Vectorial Mechanics	3	-
MATH 212	Introduction to Numerical Analysis	-	3
MATH 215	Linear Algebra I	3	-
MATH 216	Linear Algebra II	-	3
*MATH 221	Mathematical Methods I	3	-
	*ELECTIVES		
MATH 206	Discrete Mathematics	-	3
COSC 205	Programming in JAVA	3	-
STAT 211	Probability II	3	-
STAT 221	Statistical Inference II	3	-
	TOTAL (47Credits)	24	23

**\*Students are expected to take a minimum of 6 Credits distributed over 2 semesters.**

**B.Sc. (Hons) MATHEMATICS**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	-	2
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	<b>CORE COURSES</b>		
MATH 302	Ordinary Differential Equations II	-	3
MATH 306	Introductory Mathematical Modeling	-	3
MATH 307	Real Analysis II	3	-
MATH 311	Metric Space Topology	3	-
MATH 315	Abstract Algebra I	3	-
MATH 318	Numerical Analysis and Computation I	-	3
MATH 320	Abstract Algebra II	-	3
MATH 321	Complex Analysis I	3	-
MATH 323	Vector and Tensor Analysis	3	-
MATH 330	Mathematical Methods II	-	3
	<b>*ELECTIVE COURSES</b>		
COSC 302	Algorithm and Data Structure	-	3
MATH 312	Optimization Theory	-	3
MATH 316	Operations Research	-	3
MATH 322	Complex Analysis II	-	3
STAT 311	Probability III	3	-
STAT 321	Statistical Inference III	3	-
	<b>TOTAL (46 Credits)</b>	<b>24</b>	<b>22</b>

**\*Students are expected to take a minimum of 6 credits of the elective courses distributed over 2 semesters.**

**B.Sc. (Hons) MATHEMATICS**  
**400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
GEDS 440	E-Project Management and Simulation	-	2
	<b>CORE COURSES</b>		
MATH 403	Functional Analysis	3	-
MATH 405	General Topology	3	-
MATH 406	Lebesgue Measure and Integration	-	3
MATH 407	Mathematical Methods III	3	-
MATH 408	Theory of Partial Differential Equations	-	3
MATH 415	Theory of Ordinary Differential Equations	3	-
MATH 419	Advanced Algebra I	3	-
MATH 424	Numerical Analysis and Computation II	-	3
MATH 430	Advance Algebra II	-	3
MATH 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
MATH 416	Measure Theory	-	3
MATH 418	Algebraic Number Theory	-	3
MATH 421	Complex Analysis III	3	-
MATH 429	Integral Equations	3	-
	<b>TOTAL (46/52 Credits)</b>	<b>23/26</b>	<b>23/26</b>

**\*\*Students are expected to take a minimum of 6 credits of the elective courses distributed over 2 semesters.**

## **B. Sc. (Hons) MATHEMATICS COURSE DESCRIPTIONS**

### **MATH 101: GENERAL MATHEMATICS 1: L 30: P O: T O)                      3 Credits** (Algebra and Trigonometry)

This course focuses on elementary set theory, (subsets, union, intersection, complements and venn diagrams), rel numbers, integers, rational and irrational number, mathematical induction, real sequences and series, theory of quadratic equations, binomial theorem. The course also deal with complex numbers; algebra of complex numbers; the argand diagram, De moivre's theorem, nth wob of unity. Circular measure, trigonometric functions of angles of any magnitude, addition and factor formulae. Here we teach the basic ideas of the concepts so that the foundation is built to lead to excellence.

### **MATH 102: GENERAL MATHEMATICS II: L.30 P.O: T 15)                      3 Credits**

The course deals with functions, limits of functions; and the idea of continuity. The course also emphasize on the derivative as limit of rate of change, techniques of differentiation. Extreme curve sketching; integration as an inverse of differentiation methods of integration, definite integrals and application to areas and volume.

God wants us to know that change is the only constant thing in life. He is the one that allows "change" to happen in every existence. Here, again attention is paid to minute changes, teaching carefulness which leads to excellence.

### **MATH 104: GENERAL MATHEMATICS III: (L. 30 PO: T 15)                      3 Credits** (Vectors, geometry and dynamics)

This course focuses on the geometric representation of vectors in 1 – 3 dimensions, components, direction cosines. Addition, scalar multiplication of vectors, linear independence scalar and vector products of two vectors. Differentiation and integration of vectors with respect to a scalar variable. The course also deals with two-dimensional co-ordinate geometry components of velocity and acceleration of a particle moving in a plane. Force, mommentation, laws of motion under gravity, projectiles resisted vertical motion, elastic string simple pendulum impulse. Impact of two smooth spheres, and of a sphere on a smooth sphere. God wants us to realize that our existence is governed by physical and super-natural forces. Paying attention to minutest details is taught by noting very small increments matters as taught in differentiation integration.



**COSC 111, 112: INTRODUCTION TO COMPUTER SCIENCE AND  
PROGRAMMING I, II**

**3, 3 Credits**

Basic introduction to Computer System, Trouble shooting Techniques and managing Application programs. Introduction to programming methodology using the C programming language. Computer usage within a UNIX environment. Algorithm development, control structures, arrays, program style, program design, code documentation techniques, and program correctness. Further study of programming methodology by examining program specifications, design, coding, correctness and style with additional coverage of pointers and arrays. Character and strings. Input and output formatting. File processing. Programming exercises.

Introduction to programming methodology using the C++ programming language. C++ basic parts, data types, control structures, arrays, functions, searching and sorting, algorithm development. Basic class concepts- constructors/destructors, operator overloads, inheritance, program style, program design, code documentation techniques, and program correctness. Procedural and object oriented programming. File processing. Stacks and queues.

**PHYS 101: GENERAL PHYSICS I: L 30: P0:T 15)**

**3 Credits**

(Mechanics, Thermal Physics and Waves)

This course emphasizes on number systems and operation to real life problems. Number bases expressions; Basic notions of equations and inequalities and methods of solutions with application. Interests (simple and compound).

God is the Creator of all numbers. For instance, the natural numbers also called the counting numbers were created and first used by God. Any time we use these numbers, our attention should be drawn to God who created the numbers for our use.

**PHYS 102: GENERAL PHYSICS II: ( L30:P0:T 15)**

**3 Credits**

(Electricity, Magnetism and Modern Physics)

Electrostatics; conductors and currents; dielectrics; magnetic fields and induction; Maxwell's equations; electromagnetic oscillations and waves; applications.

**STAT 113: DESCRIPTIVE STATISTICS: (L 60: P O: T O)**

**3 Credits**

Statistical data: types, sources and methods of collection. Presentation of data: tables chart and graphs. Errors and Approximations. Frequency and cumulative distributions, Measures of location, partition, dispersion, skewness and Kurtosis. Rates ratio and index number.

**STAT 121: STATISTICAL INFERENCE 1:**

**2 Credits**

Population and samples. Random sampling Distribution, estimation (Point and interval) and Tests of hypotheses concerning population mean and proportion (one and two large sample cases). Regression and Correlation. Elementary time series analysis.

**MATH 221: MATHEMATICAL METHODS I (L.30 P.O: T I)**

**3 Credits**

The course aims at teaching real – valued function of one, two and three variables, differentiation and integration of functions of two or three variables. Mean – value theorem and Taylor series expansion of real – valued functions of up to three variables. Emphasis is placed on Partial derivatives of functions of up to three variables, Lagrange's Multiplier of linear approximation, Increment, Evaluation of line integral and multiple integrals is also considered.

The course teaches the concept of dependent and independent variables of 1 – 3 variables. Going through the course given ability to differentiate, not function of one variable but also functions of several variables. This is an added knowledge.

**MATH 202: ORDINARY DIFFERENTIAL EQUATIONS I** L. 30 P. O.:T 15  
3 Credits

The course teaches and establish the concept of existence and uniqueness of solution of ordinary differential equation. Different methods of solution and general theory of first order to higher order differential equations, Laplace transformation, solution of initial value problem by Laplace transform method. The student is also introduced to simple treatment of partial differential equations in two independent variables. Emphasis is placed on applications of Ordinary Differential Equation (ODE) and Partial Differential Equations (PDEs) to physical, life science, natural science, finance and medical sciences etc.

From the course we can see that the solution to a differential equation is unique (Existence and Uniqueness of Solution), in the same way the bible teaches that the only true source of solution to the problems in this world can only be found in Jesus Christ, and that just as solutions of equations exist, so God also exists. **Pre-requisite: MATH 104**

**MATH 203: SETS, LOGIC AND ALGEBRA: (L.30 P. O: T 15)      3 Credits**

The course is aimed at teaching principle of basic set theory, mapping, Cartesian product, relations and equivalence. It contains and treats fundamentals of algebras such as Logic, and method of proofs, Groups, subgroups, Rings, Homomorphics, properties of real and complex numbers which prepares the students for more advanced algebra and mathematical related courses, leading them to serve a specific purpose. **Pre-requisite: MATH 101**

**MATH 206: DISCRETE MATHEMATICS** **3 Credits**

In this course Set theory, Mapping, Cartesian Products, Relations, Ordered Pairs, Equivalence and partitions is revisited. Operations on Boolean Algebra and Lattices and Logic is treated. Emphasis is also made on the following: Graphs and Graph theory, matrices associated with graph. Minimum weight, Spanning trees, Isomorphism, Integer and Real Matrices, Boolean Matrices, Path and Adjacency matrices. Numerical and Boolean Matrices. Application to counting. Discrete Probability and Generating Functions.

Boolean Algebra, Logic and Probability bothers on making decisions which has application Natural Science, Biological Sciences, Social Sciences, Computing science, Engineering and other fields. God want his people to make the right decisions at every time to choose to do good rather than evil in the on – going Great Controversy.

**MATH 208: REAL ANALYSIS 1 (L.30 P. O.:T 15) 3 Credits**

The course teaches upper and lower bounds of real numbers and convergence of sequences of real numbers through concepts Infimum, Supremum, convergence of sequence tests like comparison test. Monotone sequences. Nested Intervals Theorem, Cauchy and Squeeze Theorem is treated. The course emphasize on completeness of real and incompleteness of rational numbers. Students are meant to understand continuity and differentiability of functions in  $\mathbb{R}$ , Rolle's Theorem and Mean - Value Theorem for differentiable functions and application of Taylor's series expansion to those real – valued functions.

From the concept of completeness of real and incompleteness of rational students will learn that they are not complete and so, the cooperation of others is needed for completeness of character and achievement. **Pre-requisite: MATH 101, 104**

**MATH 220: VECTORIAL MECHANICS (L30:Po:T15) 3 Credits**

Vector algebra. Vector, dot and cross Products. Equating of curves and surfaces. Vector differentiation and applications. Gradient, divergence and curl. Vector integrate, line surface and volume integrals Greens Stoke's and divergence theorems. Tensor products of vector spaces. Tensor algebra. Symmetry. Gartesian tensors. **Prerequisite – MATH221, 104**

**MATH 212: INTRODUCTION TO NUMERICAL ANALYSIS (L. 30 P O: T 15) 3 Credits**

The course teaches types of that can be incurred in a numerical computation and how they can be minimized or if possible avoided. It also deals with method of solutions to algebraic and transcendental equations. Interpolation, approximation and curve fitting of tabulated values and functions at points using simpler expression. The course also deals with finding zero of nonlinear equations in one variable. Solution of system of linear equations. Numerical differentiation and integration e.g. Simpson's Rule. Finally, Initial value problems for Ordinary Differential Equations was treated. The errors incurred in numerical computations especially propagated errors makes the approximate solution differs from the theoretical solution which is the expected solution. In the same way the bible teaches that error or sin separates us from. **Pre-requisite – MATH 101, 104**

**MATH 215: LINEAR ALGEBRA I (L.15 P.O: T 15) 3 Credits**

The course treats the concept and operations of vector space, subspace, linear independence, basis and dimension over a real field. Representation of vectors using operations of matrices which include linear transformation, trace, null, rank of a matrix, Singular and Non – singular matrices and Algebra operations in matrices. The concept of linear dependence can bring about team-spirit, and depend on God for our existence and needs. **Pre-requisite – MATH 101, 102**  
**Co-requisite – MATH 203**

**MATH 216: LINEAR ALGEBRA II (L.15: P.O: T 15) 3 Credits**

The course deals with system of linear equations, change of basis, equivalence. The course also treats how to find eigenvalues and eigenvectors from systems of equations using characteristic equations and polynomials of a liner transformation matrix. Emphasis is also on Caley Hamilton Theorem, Bilinear and Quadratic forms, properties of orthogonal matrix, diagonalization and Canonical forms. The concept of equations connotes weighing in a balance. To have a balanced character, one has to learn from others or seek cooperation of others. **Pre-requisite – MATH 101, 102. Co-requisite – MATH 203, 104.**

**COSC 205: PROGRAMMING IN JAVA: 2, P: 1 3 Credits**

Introduction to the World Wide Web. Basic concepts of Java at an introductory programming level, covering good programming practices and process, syntax. Data types and operations. Java Applets, servlets. Control structures, methods arrays, object-oriented programming techniques, classes, objects, constructors, encapsulation, strings and characters, graphics, basic GUI

components, multimedia. Java utility package and bit manipulation. Developing Java applications. Introduction to Java database programming. Programming projects required.

**Prerequisite: COSC102**

**STAT 211: Probability II**

**3 Credits**

Combinatorial analysis. Probability models for the study of random phenomena in finite sample spaces. Probability distributions of discrete and continuous random variables. Expectations and moments generating functions. Chebyshev's inequality. Bivariate, marginal and conditional distributions and moments. Convolution of two distributions, the central limit theorem, and its uses. **Pre-requisites – STAT III and MATH 101 or equivalent**

**STAT 221: STATISTICAL INFERENCE II:**

**3 Credits**

Sampling and sampling distribution. Point and interval Estimation. Principles of hypotheses testing. Tests of hypotheses concerning population means, proportions and variances of large and small samples, large and small samples cases. Goodness – fit tests. Analysis of variance.

**MATH 302: ORDINARY DIFFERENTIAL EQUATIONS II**

**3 Credits**

**(L.30 P O: T O 15)**

The course focuses at finding series solutions of second order linear differential equations. Bessel, Legendre and Hyper geometric equations and functions, Gamma, Beta functions and Sturm – Luiovelle problems, orthogonal polynomial functions, Fourier – Bessel and Fourier – Legendre Series, Fourier transformation. Solutions of Laplace, wave and heat equations by Fourier method will also be covered. These concepts being taught require painstaking care, for examples series solution of ordinary differential equations carefulness. Carefulness may lead students to excel. **Pre-requisite – MATH 202**

**MATH 306: INTRODUCTORY MATHEMATICAL MODELING**

**3 Credits**

The course deals with methodology of model building, identification, formulation and solution of problems, cause – effect diagrams, equation types. Algebraic, Ordinary Differential and Partial, Difference, integral and functional equations. Applications of Mathematical Models to physical, biological, social and behavioural sciences. Just as we model ideas and concepts, students will be led to learn to be role models to others in the society. **Pre-requisite – MATH 221, 202, (L 30: P O: T 15), Co-requisite – MATH 302, 323**

**MATH 307: REAL ANALYSIS II: (L 30: P O: T 15)**

**3 Credits**

The course focuses on Reimann Integral of functions  $R$ , continuous and positive functions, functions  $f$  bounded variation, the Reimann – Stieltjes integral. Pointwise and Uniform convergence of sequences and series of functions  $R$ . Effects on limits (sums) when the functions are continuous differentiable or Reimann integrable, power series. As with other mathematics courses, student are to be hardworking which can makes them excel in life.

**Pre-requisite – MATH 208**

**MATH 315: ABSTRACT ALGEBRA I (L 30: P O: T 15)**

**3 Credits**

The course deals with Groups – permutation groups, subgroups, Cosets, Lagrange's Theorem and applications, cyclic groups. Rings:  $\mathbb{Z}, \mathbb{Z}_n$  Rings of polynomials and matrices, integral

domain. Fields, polynomial rings, fractionalization, Euclidean algorithms for polynomials. H.C.F. and L.C.M. of polynomials. As a non – empty set on which a binary operation is defined satisfies certain properties to become a group so God expects us to have certain core values – Excellence, integrity, team spirit, responsibility, accountability, etc to achieve this vision for Babcock University.

The course being abstract develops in the students a culture of abstract thinking which is essential for any concrete construction. Before we construct, we had to think first in the abstract. The course leads to having autonomy over one's work. **Pre-requisite: MATH 101, MATH 203.**

**MATH 311: METRIC SPACE TOPOLOGY 3 Credits**

This course deals with sets, metrics, open and close balls, open sets and neighbourhood closure of sets. Homomorphism, continuity, compactness and connectedness will also be discussed. God is concerned about our relationship with him. He frowns at points of discontinuity in our relationship(s) with him.

**MATH 312: OPTIMIZATION THEORY: (L. 45 P O: T 15) 3 Credits**

This course considers linear programming models. The simplex method: formulation and theory. Quality integer programming: Transportation problem. Two-person zero-sum games. Non linear programming: quadratic programming Kuhn-Tucker methods. Optimality criteria. Simple variable optimization. Multivariable techniques Gradient method. Pre-requisite: MATH 221, 202, 302, 323. This is a way of transforming physical or life experience to mathematical objects in order to solve it. God is a problem solver, He solved the problem of eternal damnation by providing a way for our redemption.

**MATH 316: OPERATIONS RESEARCH (L 30: P O: T 15) 3Credit**

This course examines phases of operation research study. Classification of operation research models, linear; dynamic and integer programming. Decision theory. Inventory models, critical path analysis and project controls.

God is involved in exploration. He wants us to find thing out through a thorough examination but based on biblical principles.

**MATH 318: NUMERICAL ANALYSIS AND COMPUTATION I 3 Credits**

The course focuses on Interpolation: Aitken's, Lagrange and Hermite Interpolation formulae, difference schemes. Approximation: Chebyshev polynomials, rational function and continued functions. Numerical Integration and Differentiation: Newton – Cotes formulae, Gauss's Integration formulae, the Euler Method, Runge – Kutta methods, Predictor – Corrector Methods. Hyperbolic, Parabolic and Elliptic equations. Error estimation and convergence of the methods. Carefulness is taught; errors made affect adversely the solution, but as errors are not avoidable in life, one should be taught to accept one's errors.

**MATH 320: ABSTRACT ALGEBRA II (L 30: P O: T 15) 3 Credits**

**Pre-requisite – MATH 203, 206**

The course deals with Normal subgroups and quotient groups, monomorphic, isomorphism theorems, Cayley's theorems. Direct products, groups of small order, groups acting on sets, Sylow theorems. Ideal and quotient rings, P.I.D and U.F.D's euclidean rings. Irreducibility, field extensions, degree of and extension, minimum polynomial, algebraic and transcendental

extensions. Straight edged and compass constructions. The course develops the students in abstract thinking and equips the students in further essentials to excel in abstract mathematics.

**MATH 321: COMPLEX ANALYSIS I (L 30: P O: T 15) 3 Credits**

The course deals with functions of a complex variables, their limits and continuity. Derivation of the Cauchy – Reimann equations, analytic functions, bilinear transformations, conformal mapping, contour integrals, Cauchy Theorems and it's main consequences. Convergence of sequences and series of functions of a complex variable, power series and Taylor's series will also be treated. Each of these topics has its own inherent values to teach students. Derivation of Cauchy-Reimann equations makes one to own up, believes in self and can be boast of independent thinking. **Pre-requisite – MATH 101, MATH 203.**

**MATH 322: COMPLEX ANALYSIS II: L 30: P.O:T 15) 3 Credits**

The topics listed in this course are of both pure and applied mathematics. It is expected that going through the course will produce in the students the knowledge that can make one excellent in one's work.

**MATH 323: VECTOR AND TENSOR ANALYSIS (L 30: P O: T 15) 3 Credits**

The course deals with vector algebra, dot and cross product of vectors, vector differentiation and applications, gradient, divergence and curl, vector integration: line, surface and volume integral; Green, Stoke and Divergence theorems. Tensor products of vector space and tensor algebra will also be considered.

Green's and divergence theorem are all about relationships between integrals. These courses are in the realm of applied mathematics. It is expected that being able to apply pure mathematics to these topics will create excellence. **Pre-requisite – MATH 101, MATH 203.**

**MATH 330: MATHEMATICAL METHODS II 3 Credits**

Sturm-Liouville problem. Orthogonal polynomials and functions. Fourier series and integrals. Partial differential equations: general and particular solutions. Linear equations with constant coefficients, first and second order equations, solutions of the heat, wave and laplace equations by the method of separation of variables. Eigen function expansions. Methods of variation of parameters. Fourier transforms.

**COSC 302: ALGORITHMS AND DATA STRUCTURES L:2, P:1 3 Credits**

Basic Structures for data representation-Graphics and Network flows. Data definition languages. Sequential and linked storage allocation:-for linear lists, multi-linked structures String processing techniques. Trees-implementation, traversal and mathematical properties. Dynamic storage allocation, Sorting, Searching, algorithmic analysis. **Prerequisite: COSC202**

**STAT 311: PROBABILITY III 3 Credits**

In this course, emphasis is on discrete sample spaces. Definitions and rules of probability. Independence Bayes' theorem. Urn Models. Sampling with and without replacement. Inclusion-exclusion theorem. Allocation and matching problems. Probability generating functions Bernoulli trials, Binomial, Poissons, Hypergeometric negative binomial and multinomial distribution, poisson process.

This is about accurate prediction. God promised that afterward, He will pour out His Spirit upon all flesh and they shall prophesy (Joel 2:28). God is in support of probability theory.

**STAT 321: STATISTICAL INFERENCE III**

**3 Credits**

Criteria of estimation consistency unbiasedness, efficiency, minimum variance and sufficiency, Methods of estimation; maximum likelihood, least squares and method of moments. Confidence intervals. Simple and composite hypotheses. Likelihood ratio test. Inferences about means and variance.

**MATH 403: FUNCTIONAL ANALYSIS**

**3 Credits**

In the course, complete metric space and functions on complete metric space is taught. Continuity, homeomorphism, normed linear space and the concept of norm were made clear. Convex sets, functions, linear operators and elementary spectral theory for operators were taught. Through the course, which is also abstract, the intellect is sharpened so that the students become intellectually sharpened. It prepares students for specialized studies in functional analysis.

**MATH 405: GENERAL TOPOLOGY**

**3 Credits**

The general topology course treats topology including what is meant by topology and its properties including connectedness, separatedness, and compactness. Construction of new topologies and new topological spaces are treated. We treat space of continuous functions including homomorphism, topological invariant spaces point-wise and uniform convergence. Students learn excellence through construction and team spirit through group work. **Pre-requisite MATH 304.**

**MATH 406: LEBESGUE MEASURE AND INTEGRATION**

**3 Credits**

Here, Lebesgues Measure, measure, measurable set, measurable functions are taught. We treat Lebesgues integral and the integration of non-negative functions including the general integral convergence theorems. As we study measure in this course, reference will be made to other measures including the fact that God measures human being by His Laws, that is the Ten Commandments. Therefore, students will learn to be careful to observe God's laws so as not to fall short of the measure. **Pre-requisite MATH 206, 315.**

**MATH 407: MATHEMATICAL METHODS III**

**(L 30: P O: T 15)**

**3 Credits**

The course treats calculus of variation, lagranges functional and associated density. Necessary condition for weak relative extremum among other topics, including complex variable methods and application to solution of differential equations.

Students are made to observe and learn different methods applicable to different problems. In solving the equations, steps leading to solutions must be shown, so that integrity is earned on the solution got. **Pre-requisite: MATH 221, 321, 405, 406.**

**MATH 408: THEORY OF PARTIAL DIFFERENTIAL EQUATIONS**

**3 Credits**

Solution of boundary and eigenvalue problems of PDE by various identified methods. Numerical solution of PDES especially parabolic, and hyperbolic, and hyperbolic systems.

**MATH 415: THEORY OF ORDINARY DIFFERENTIAL EQUATIONS**

**3 Credits**

The course is on the theory ordinary differential equations, where existence and uniqueness theorems, dependence of solutions on initial parameters are taught. It emphasizes the properties of solutions of equations. A comparison between Starn comparison and Soni-Polya theorems is made. An elementary treatment of linear system is made. Floquet's theorem is also examine. None-Linear systems, stability theory is introduced. Classification of integral equations is taught and considere Fredholm's alternation, Methods of Successive approximation in solving integral equations were considered. We consider Neumann's series, Resolvent Kernel of integral equations and finally consider the different application of ordinary differential equations. Through various assignments given, the students who offered this course are taught the team spirit and are being prepared to learn to cooperate with other. Being the foundation and basics of ordinary differentials. Path to excel in the study of differential equation is begun.

**MATH 416: MEASURE THEORY 3 Credits**

The course focuses on Abstract Integration in  $L_p$ -Spaces.

The logical development of a mathematical system illustrates the thought process used in developing a systematic concept. As a basic course on  $L_p$ -spaces, the students learn more of abstract integration particularly in  $L_p$ -Spaces.

**MATH 418: ALGEBRAIC NUMBER THEORY 3 Credits**

The course focus on Algebraic numbers, quadratic and cyuclotomic fields, factorization of polynomials into reducibles, and ideals. It treats important theorems like Minkowski's theorem, Fermat's last theorem, and Drichilet's unit theorem. It also treat concept of class-group and class-number. The topics treated are advanced topics in Algebra aimed at preparing the would-be specialists in Algebra, especially algebraic number theorist.

**MATH 419: ADVANCED ALGEBRA I 3 Credits**

In the course emphasizes, we teach the following topics: Lattice Theory, Noetherian and Arthinian rings and modules, Hilbert basis theorem, Chines Remainder Theorem, Semi-Simple rings and modules prime spectrum of a commutative ring.

Though the course is essentially abstract, in it, an appreciation of the use of abstractness is emphasized. It is emphasized that from the abstract God created the concrete objects we see. For example, God spoke into existence the earth from which man was later created. A specialized course for those who are interested in algebra, foundation for excellence in algebra is built.

**MATH 424: NUMERICAL ANALYSIS AND COMPUTATION II L 30 P:O T:15 3 Credits**

The course deal with obtaining solutions of IUPS-ODES using discrete variable methods and discrete and continuous Tay methods.

Partial differential equation discussions centre on finite difference and finite element methods. Stability, convergence and error analyses are also discussed.

Many of God's laws of nature can be expressed in mathematical models, which are always self-enforcing patterns in nature can be fully understand through mathematical principles and hence,



Numerical and geometrical patterns in mathematics will inspire students to appreciate the beauty of mathematics as well as beauty of nature. As an advanced course in Numerical Analysis, it prepare students for career in Numerical Analysis.

**MATH 430: ADVANCED ALGEBRA II**

**3 Credits**

Field extensions, splitting fields and normal extensions. Separable and inseparable extensions. Primitive elements. Galois fields. Solvable and nilpotent groups. Elementary Galois Theory.

**MATH 490: RESEARCH PROJECT**

**6 Credits**

Here the student is guided to write an academic project which must be original. The student must also guide against plagiarism if he/she wants the project to be accepted. A good virtue that can be learnt are integrity, responsibility, accountability and team spirit.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

The focal point in the course, having acknowledging God as the Master Mathematician is to unfold the place of the Bible in mathematics. The act of God is to be revealed in any chosen topic, for example in (3) developing the number system;  $\mathbb{N} \rightarrow \mathbb{Z} \rightarrow \mathbb{Q} \rightarrow \mathbb{R} \rightarrow \mathbb{C}$ , it is to be emphasized that  $\mathbb{N} = \{1,2,3,4,5, \dots\}$  was created by God. It is the set of numbers we use to count. Without it, counting which is compulsorily necessary in man's life, is not possible. One can imagine a society which has no knowledge of counting, or a society that is not numerate

**B.Sc. (Hons.) PHYSICS WITH ELECTRONICS**  
**100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	—
GEDS 112	Health Principles	—	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	—
GEDS 126	Life and Teachings of Jesus the Messiah	—	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	<b>CORE COURSES</b>		
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	—	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
PHYS 103, 108	General Laboratory Physics I, II	1	1
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
COSC 111	Introduction to Computer Science and Programming I	3	-

COSC 112	Introduction to Computer Science and Programming II	—	3
<b>TOTAL (45 CREDITS)</b>		<b>23</b>	<b>22</b>

**B.Sc. Hons. PHYSICS WITH ELECTRONICS  
200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	GENERAL EDUCATION COURSES		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communications in French	2	-
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	2	
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 290	Spreadsheet and Digital Presentation		2
	CORE COURSES		
PHYS 201	Basic Modern Physics	3	-
PHYS 203, 216	Analytical Mechanics I, II	2	2
PHYS 204	Electric Circuits and Electronics	-	3
PHYS 207, 218	Experimental Physics 1, II	1	1
PHYS 208	Wave and Optics	-	3
PHYS 209	Introduction to Space Science	2	-
PHYS 215	Thermal Physics	2	-
PHYS 220	Workshop Practice	-	2
MATH 202	Ordinary Differential Equations I	-	3
MATH 221	Mathematical Methods I	3	-
STAT 222	Statistics for Physical Sciences	-	3
	*ELECTIVE COURSES		
PHYS 202	Introduction to Solid Earth Physics	-	2

PHYS 211	Energy and Environment	2	-
PHYS 226	Analogue Electronics 1	-	2
	<b>TOTAL (49 Credits)</b>	<b>24</b>	<b>25</b>

\* Students are expected to take 2 – 4 credits of electives over 2 semesters.

**B.Sc. Hons. PHYSICS WITH ELECTRONICS  
300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001	Citizenship Orientation	0	0
GEDS 280	Leadership Skills	2	-
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	2	
	<b>CORE COURSES</b>		
PHYS 302	Electromagnetic Waves and Optics	-	2
PHYS 303	Electromagnetism	3	-
PHYS 304	Solid State Physics I	-	2
PHYS 305	Quantum Physics	3	-
PHYS 306	Mathematical Methods in Physics I	-	3
PHYS 307	Experimental Physics III	1	-
PHYS 309	Electronics	2	-
PHYS 360	Students Industrial Work Experience (SIWES)	-	6
	<b>*ELECTIVE COURSES</b>		
PHYS 300	Analogue Electronics II	-	2
PHYS 310	Communication Physics	-	2
PHYS 320	Nuclear and Particle Physics 1	-	2
PHYS 340	Medical Reactor Physics	2	-
PHYS 350	Solar and Atmospheric Physics	2	-
MATH 323	Vector and Tensor Analysis	3	-
	<b>TOTAL (39/42 Credits)</b>	<b>20/23</b>	<b>19</b>

\* Students are expected to take 2 – 5 credits of electives over 2 semesters

**B.Sc. Hons. PHYSICS WITH ELECTRONICS**  
**400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 420	Biblical Principle in Personal and Professional Life	3	-
GEDS 440	E-Project Management and Simulation		2
	<b>CORE COURSE</b>		
PHYS 401	Quantum Mechanics I	3	-
PHYS 402	Quantum Mechanics II	-	3
PHYS 403	Solid State Physics II	2	-
PHYS 404	Electrodynamics	-	2
PHYS 405	Mathematical Methods in Physics II	3	-
PHYS 406	Atomic and Molecular Spectroscopy	-	3
PHYS 407	Digital Electronics	3	-
PHYS 408	Analytical Mechanics III	-	2
PHYS 409	Computational Physics	3	-
PHYS 411	Statistical and Thermal Physics	3	-
PHYS 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
PHYS 412	Nuclear and Particle Physics II	-	2
PHYS 413	Advanced Physics of the Earth Interior	3	-
PHYS 414	Astronomy	-	2
PHYS 415	Introduction to Medical Physics	2	-

PHYS 416	Biophysics	-	2
PHYS 417	Power Electronics	2	-
<b>TOTAL ( Credits 44/47)</b>		<b>24/25</b>	<b>20/22</b>

**\* Students are expected to take 2 – 4 credits of electives over 2 semester.**

### **B.SC. (Hons) PHYSICS WITH ELECTRONICS COURSE DESCRIPTIONS**

#### **PHYS 101: GENERAL PHYSICS I (MECHANICS & WAVES) 3 Credits**

Space and time, frame of references; Units and dimension; Vectors; Kinematics; Fundamental laws of Mechanics, statics and dynamics; Work, Energy and Power; Conservation laws; Universal gravitation; Rotational dynamics and angular momentum.

Molecular treatment of properties of matter; Elasticity: Hook's law, Young's, Shear, and Bulk moduli; Hydrostatics: Density, Pressure; Buoyancy: Archimedes' Principles; Hydrodynamics: streamline, turbulence, Bernoulli and continuity equations, Reynold's number, Viscosity: laminar flow, Poiseuille's law; Surface tension; Capillarity: Adhesion, cohesion, drops and bubbles. Temperature: the zeroth law of thermodynamics, heat: gas laws of thermodynamics, transfer, expansion, kinetic theory of gas; Waves: sound, applications.

This course emphasize that the universe is made up of space and time. Depending on the frame of reference chosen, we can begin to study about different kind of motion in the universe and their effects. It further describes the behaviour of matter in terms of molecules, and elasticity. It further centers on fluids behaviours. Both fluids at rest and in motion are explained. Again the behaviour of matter with temperature changes is emphasized. **Pre-requisite: MATH 101.**

#### **PHYS 102: GENERAL PHYSICS II (OPTICS, ELECTRICITY AND MAGNETISM)**

**3 Credits**

Optics: Reflection at Plane, curved surfaces; Refraction through Plane surfaces; Thin Lenses; Optical instruments; Electrostatics; Conductors and Currents; Dielectrics; Magnetic fields and induction; Maxwell's equations; Electromagnetics oscillations and waves & its Applications; Semiconductors; Thermionic Emission; Electrons, Photons, and the Atom; Photoelectric effect; Atomic nucleus and Radioactivity; Compton effect; de-Broglie Hypothesis; Dual nature of Matter; Nuclear Reactions: Fission and Fusion; Thermonuclear reaction; Uncertainty Principle

This course is about electricity, magnetism and electromagnetism. It describes the force, fields and potential associated with both electricity and magnetism. It further emphasizes that both are interrelated. **Pre-requisites: MATH 102, PHYS 101**

**PHYS 103/108: GENERAL LABORATORY PHYSICS I, II****1 Credit**

This introduction course emphasizes quantitative measurements, the treatment of measurement errors, and graphical analysis. A variety of experimental techniques will be employed. The experiment include studies of metres, the oscilloscope, mechanical systems, electrical and mechanical resonant systems, light, heat, viscosity, etc., covered in PHYS 101, PHYS 102

This course tends to inculcate participatory and team spirit in the students. Group leaders are chosen for the practical's and thereby we intend to inculcate the spirit of servant leadership in our students.

**PHYS 201: BASIC MODERN PHYSICS****3 Credits**

Experimental basis of quantum theory: Blackbody radiation, Wien's law, the Rayleigh-Jeans theory, Planck's theory; Particle behaviour of radiation: photoelectric effect, Compton effect, pair production and annihilation, red shift; Electrons and quanta-Cathode rays; Bohr theory of atomic structure; Wave behaviour of matter: De Broglie hypothesis, wave velocity, phase and group velocities; the uncertainty principle; Schrodinger's equation and simple applications. Special Relativity. Defects in Newtonian Mechanics; the speed of light; the Lorentz transformation of velocities. The Michelson-Morley experiment and interpretations. The Twin Paradox. Relativistic Kinematics and Dynamics.

The course emphasizes that not all phenomena can be explained using the classical principles. In Daniel 12 vs 4, God said, 'knowledge shall increase'. Hence the course brought new approaches to explain physical phenomena in a clearer and better term. **Pre-requisites: PHYS 102, MATHS 102**

**PHYS 202: INTRODUCTION TO SOLID EARTH PHYSICS****2 Credits**

Origin, shape, structure and major divisions of the earth; the Earth's main magnetic field and its distribution; Electrical theory of the earth's core and origin of the magnetic field; Sea floor spreading; Continental drift and plate tectonics.

**PHYS 203: ANALYTICAL MECHANICS I****2 Credits**

Newtonian Mechanics; Motion of a particle in one, two and three dimensions; Systems of particles and collision theory; Newtonian gravitation; Conservative forces and potentials, oscillations, central force problems; Accelerated frames of reference; Rigid body dynamics; Generalized motion; Mechanics of continuous media. Special Relativity; Defects in Newtonian Mechanics; Galilean transformation; the speed of light.

This course is about Newtonian Mechanics. It deals with motion in one, two and three dimension. Forces associated with motions e.g accelerated form of reference, rigid bodies and mechanics of continuous media. **Pre-requisites: PHYS 101, MATHS 102**

**PHYS 204: ELECTRIC CIRCUITS AND ELECTRONICS****3 Credits**

Physics of active devices: Brief treatment of vacuum tube devices and applications; Thermionic emission e.g., valves and C.R.T.; Semiconductors: energy bands, electrons and holes; Junction and Zener diodes, Rectification; Shot key and Multifunction diodes and their Applications; Transistors: Bipolar, FET, MOSFET and its static characteristics; Basic voltage amplifiers: noise, feedback; small signal amplifier, waveform generators; Logic elements and circuit: simple resistive-capacitive network, power tunnel D. C. Circuits: Kirchhoff's Law, sources of end current, Network analysis and circuit theorems, filters; A. C. Circuit: Inductance, Capacitance,

Sinusoidal waveforms, RMS and peak values, Impedance, Series RLC circuit; Q-factors of resonant circuits; Power in AC, Transformer circuits; Wheatstone and A.C. bridges. Electrical instruments: moving-coil and moving iron meters, DC/AC voltmeter and ammeter, wattmeter, DC/AC potentiometers, etc. **Pre-requisite: PHYS 102**

This course is about current electricity. Both direct current and alternating current are emphasized. The flow of current in electric circuits and the behaviour it shows when passing through devices like resistor, capacitor, and inductor are the main objectives of this course. Semi-conductors are also studied. **Pre-requisites: PHYS 102, MATHS 102.**

**PHYS 208:                      WAVE AND OPTICS                      3 Credits**

Wave phenomena; Acoustical waves; the harmonic oscillator, wave on a string; energy in wave motion; Longitudinal waves; standing waves; group and phase velocity; Doppler effect; physical optics; Spherical waves; interference and diffraction, holography; dispersion and scattering. Geometrical optics; waves and rays, reflection at a spherical surface, thin lenses. Optical lenses, mirrors and prisms.

This course is about waves and light. It deals with both transverse and longitudinal waves and their effects. Applications of light in lenses, mirrors and prism are also emphasized. It emphasizes that information travels on waves and light. God is the creator of light. Complete instruction comes from Him. **Pre-requisites: PHYS 101, PHYS 102.**

**PHYS 209:    INTRODUCTION TO SPACE SCIENCE                      2 Credits**

Introduction to Astronomy and Astrophysics; Satellite communication; Introduction to Atmospheric science; Space environment; Space craft systems and dynamics; Aero/Astrodynamic Engineering; Rocket Engineering; Cosmology; Origin of universe and life; Space law and Business development.

**PHYS 211:    ENERGY AND ENVIRONMENT                      2 Credits**

Energy and power, principles, demands and outlook, transformation of energy and its costs; thermal pollution; electrical energy from fossil fuels; hydroelectric generation; principles and problems. Costs, capacity, storage, reserves, efficiency, new environmental effects. Electrical energy from nuclear reactors, energy in the future breeder reactors; fusion power, geothermal power, tidal power, etc. promise and problems, Lectures (1/5) Excursions.

The course lay emphasis on different ways of generating energy and power. Electric means, hydro-electrogeneration, nuclear, geothermal and tidal power are emphasized. Their distributing and costing and associated problems are highlighted.

**PHYS 215:                      THERMAL PHYSICS                      2 Credits**

The foundation of classical thermodynamics including the zeroth and definition of temperature; the first law, work heat and internal energy, Carnot cycles and second law. Entropy and irreversibility, thermodynamics potentials and the Maxwell relations. Applications; Qualitative discussion of phase transition; third law of thermodynamics, ideal and real gases, Elementary kinetic theory of gases including Boltzman counting. Maxwell-Boltzman law of distribution of velocities. Simple applications of the distribution law.

The course emphasizes how energy can be generated from heat to run our engines. We first law and second laws of thermodynamics are explained and their application in Carnot engine is emphasized. Responses of gases to temperature changes are also studied under this course.



**Pre-requisites: PHYS 101, PHYS 102.**

**PHYS 216: ANALYTICAL MECHANICS II 2 Credits**

Degree of freedom; Generalized coordinates, Lagrange's formulation of Mechanics, Applications. The Calculus of variations and the action principle; Hamilton's formulation of Mechanics, Applications; Invariance and conservation laws; Oscillatory systems, including damped, forced and couple oscillations; Normal modes.

This course deals with different theories such as Lagrange's formulation, Hamilton's formulation of mechanics, generalized coordinates, invariance and conservation laws as means of stimulating understanding and achievement of excellence in the knowledge of mechanics.

**Pre-requisites: PHYS 203, MATHS 201.**

**PHYS 207/218: EXPERIMENTAL PHYSICS 1, II 1, 1 Credit**

The laboratory course consists of a group of experiments drawn from diverse areas of Physics (Optics, Electromagnetism, Mechanics, Modern Physics, etc). It is accompanied by seminar studies of standard experimental technique and the analysis of famous and challenging experiments. Treatment of errors of measurement and data analysis should be taught also.

This course tends to inculcate participatory and team spirit, learning by demonstration, and servant leadership in group leaders. **Pre-requisites: PHYS 103 and PHYS 104**

**PHYS 220: WORKSHOP PRACTICE 2 Credits**

General safety rules and regulations in the workshop with emphasis on the following elements: workers, working tools, machines and working environment, Engineering drawing, PROFICAD designs, PCB fabrication. Introduction to Electronics components. Principle of operation of common instruments such as multimeters, voltmeters, ammeters, oscilloscope, wave form analyzer. E.t.c

**PHYS 226: ANALOGUE ELECTRONICS I 2 Credits**

Junction diodes, Power Supply Units, Transistor Biasing: static and dynamic load lines, Q-point, Bias stabilization and compensation, Linear integrated circuits, Equivalent circuit of CB, CE & CC Amplifier, Basic voltage amplifiers: noise, feedback and operational amplifier, filters, oscillators, stabilized power supplies and voltage regulation circuits, transducers, Power, Feedback, and Instrumentation amplifiers, Differential amplifiers circuits. **Pre-requisite: PHYS 202**

**PHYS 300: ANALOGUE ELECTRONICS II 2 Credits**

Field effect transistors, Small-signal model, MOSFET, transistor as voltage switch, basic switching circuits, DC amplifiers at high frequencies, Hybrid- $\pi$  model circuit parameters, Single-stage and Multistage amplifiers, Monostable and Bistable multivibration circuits, binary divider (Eccles-Jordan circuit), Schmitt trigger, Astable multivibrator, Current switching FET as a gate, choppers, phase sensitive detection, Noise and Interference in systems. **Pre-requisites: PHYS 202, 226.**

**PHYS 302: ELECTROMAGNETIC WAVES AND OPTICS 2 Credits**

Maxwell's equations and applications to propagation in bounded and unbounded media; propagation in charged media; Electromagnetic potentials; The wave equation; Propagation of

plane waves; Reflection and Refraction; Transmission lines; Guided waves and resonant cavities; Radiation of electromagnetic waves: dipoles and antenna arrays; Smith chart.

This course emphasizes the interrelatedness of electricity and magnetism as explained by Maxwell's equations. Propagation of plane waves and Geometric optics are the focus of this course. **Pre-requisite: PHYS 303**

### **PHYS 303: ELECTROMAGNETISM**

**3 Credits**

Electrostatics and Magnetostatics; Gauss' Law and Applications, Potentials, Dipole moment, Dielectrics, Poisson's and Laplace's equation and boundary value problems; Multiple expansions; Dielectric and Magnetic materials: Fields of uniformly moving charges, Biot-Savart law, Magnetic moment, Magnetic susceptibility, Static fields and matter, Magnetic energy; Faraday's law; A.C. Circuits. Maxwell's equations; Lorentz covariance and Special relativity.

The course deals with interrelatedness of electricity and magnetism. Maxwell equations are thoroughly explained. The course tends to employ different differential equations such as Poisson's and Laplace equation for better knowledge of electromagnetic fields. **Pre-requisite: PHYS 202**

### **PHYS 304: SOLID STATE PHYSICS I**

**2 Credits**

Basic concepts of the quantum theory of solids; the free electron model; weak and tight binding approximations; energy band structures in metal, semiconductors and insulators; Physics of Schottky and surface devices; use of photo-electric emission in the study of solids; Crystal structure and crystal binding. Elastic properties; lattice vibrations. Super-conductivity.

**Pre-requisites: PHYS 303, 206, 201**

### **PHYS 305: QUANTUM PHYSICS**

**3 Credits**

Wave – particle duality and the uncertainty principles, basic principles of quantum theory; energy levels in potential well; reflection and transmission of potential barriers; atomic and molecular structure and spectra, nuclear structure and reactions fission and fusion; magnetic resonance; elementary particles.

The course explains phenomena such as Wave particle duality, uncertainty principles, reflection and transmission of potential barriers, atomic and molecular structure and spectra; fission and fusion, elementary particles and their behaviours. The course went further to explain those phenomena that classical mechanics could not explain. **Pre-requisite: PHYS 201**

### **PHYS 306: MATHEMATICAL METHODS IN PHYSICS 1**

**3 Credits**

Linear algebra and functional analysis; Transformation in linear vector space and matrix theory. Hilbert space and complete sets of orthogonal functions. Special function of mathematical physic. The gamma function; hypergeometric function; Legendre function; Bessel function. Hermite and Laguerre function. The Dirac Delta function. Integral Transforms and Fourier series. Fourier series and Fourier transforms; Laplace transform. Applications of transform methods to the solution of elementary differential equations of interest in Physics and Engineering.

This course deals with the applications of various mathematical analysis and theorems to tackle problems in physics. Linear algebra and functional analysis, Transformation in linear vector space, sequences and series, functions, integral transforms and Fourier series are emphasized.

**Pre-requisites: PHYS 206 and MATH 202**

**PHYS 307: EXPERIMENTAL PHYSICS III****1 Credit**

A long series of mini courses on important experimental techniques. Topics covered include electronics, optics, electricity, atomic, molecular, nuclear and low temperature physics; statistics and data handling and scientific writing. **Prerequisites – PHYS 207/208.**

This course emphasize the importation of experimental knowledge on students by familiarity them with different experimental techniques. The experiments will be on electronics, optics, electricity atomic, molecular nuclear and how temperature physics. Statistics and data handling and scientific writing are to be emphasized.

**PHYS 309: ELECTRONICS****2 Credits**

Elementary physical electronics, junction diodes, Zener diode, Bipolar Transistors, Field Effect Transistors (FET) and Metal Oxide Semiconductor Field Effect Transistor (MOSFET). Characteristics and biasing of bipolar and FET: CE, CB, CC, CS, CG and CG. Review of two part network theory applied to transistor circuits. Small signal models. Electron and Energy band schemes. Semiconductor devices: diodes, transistors, Zener diodes, photocells and solar cells.

General outline of linear circuit analysis, linear transformations, one port and two port networks, single-phase sinusoidal alternating, current circuits, lock diagrams, poly phase circuits, network topology. **Pre-requisite: PHYS 202**

**PHYS 310: COMMUNICATION PHYSICS****2 Credits**

Analysis of signal and systems; analysis in frequency and time domains; Fourier and Laplace transforms; Delta and step functions; Amplitude modulation; D.S.B./S.C., S.S.B. and V.S.B.; Phase and frequency modulations; Demodulation; Radio and Television broadcasting; Multiplexing of signals, in TDM and FDM; Digital modulation noise; Noise sources in electronic systems; Power spectrum and measurements; Mobile phone systems; Radar systems.

**PHYS 320: NUCLEAR AND PARTICLE PHYSICS I****2 Credits**

Nuclear structure, Nuclear masses, nuclear forces, nuclear-nucleon scattering, nuclear models. Radio-active Decay. Alpha, beta, gamma decays. Nuclear reactions.

The course is about the study of nuclear structure, masses and forces, and other phenomena related to nuclei. The course also is about nuclear instrumentations and radiation detection techniques. It explores different methods to detecting and studying nuclear structures and phenomena.

**PHYS 340: MEDICAL REACTOR PHYSICS****2 Credits**

Separation of Isotopes, cross-section of interaction of neutrons, thermal diffusion length, Neutron diffusion theory, homogenous reactors, Fermi Age equation; Types of reactors and their start-up and operations; Effects of radiation on living cells, somatic and genetic damage; Uses of radiation: radiation protection, principles and methods; Personnel monitoring using TLD and film.

**PHYS 350: SOLAR AND ATMOSPHERIC PHYSICS****2 Credits**

Solar radiation emitted by the sun; Solar interior; Solar constant, calculation and measurement; Solar radiation intensity reaching the earth's surface under clear sky condition, cloud and aerosol covers; Solar energy harnessing; Natural solar conversion systems; Methods of solar collection;

Thermal and Electrical conversion systems; Economics of solar conversion systems. The Ionosphere and Radio Communication.

### **MATH 323: VECTOR AND TENSOR ANALYSIS**

**3**

#### **Credits**

The course deals with vector algebra, dot and cross product of vectors, vector differentiation and applications, gradient, divergence and curl, vector integration: line, surface and volume integral: Green, Stoke and Divergence theorems. Tensor products of vector space and tensor algebra will also be considered. Green's and divergence theorem are all about relationships between integrals. These courses are in the realm of applied mathematics. It is expected that being able to apply pure mathematics to these topics will create excellence.

### **PHYS 401: QUANTUM MECHANICS I**

**3 Credits**

The formulation of quantum mechanics in terms of state vectors and linear operators; three dimensional spherically symmetric potentials; the theory of angular momentum and spin; Identical particles and the exclusion principle; Methods of approximation; Multielectron atoms.

**Pre-requisite: PHY 303.**

### **PHYS 402: QUANTUM MECHANICS II**

**3 Credits**

Approximation Methods: Time-independent perturbation theory; applications including Zeeman and Stark effects. Variation methods, WKB method, Methods for Time-dependent problems; magnetic resonance; absorption and emission of radiation; Scattering theory: elastic potential scattering; Green's function and Partial wave methods. Selected phenomena from each of atomic physics, molecular physics, solid state physics, and nuclear physics are described and then interpreted using quantum mechanical models. **Pre-requisite: PHY 401.**

### **PHYS 403: SOLID STATE PHYSICS II**

**2 Credits**

Dielectric properties; Magnetism: Diamagnetism; Paramagnetism of incomplete shells; paramagnetic dispersion, absorption and resonance; nuclear magnetism. Topics in ferromagnetism; Magnetic properties; Magnetic resonance; Imperfections in solids; Transport phenomena in solids; the liquid state. This course studies about Dielectric properties of matter. Magnetic properties; Para-magnetism and diamagnetics, Ferromagnetism and antiferromagnetism are emphasized. Magnetic resonance and imperfections in solid. **Pre-requisite: PHY 305.**

### **PHYS 404: ELECTRODYNAMICS**

**2 Credits**

Poisson and Laplace equation. Boundary value problems. Multiples Magnetostatics, Statics fields and matters. Electric and magnetic energy. Time varying fields. Faraday's laws and fields of uniformly moving charges. Maxwell equation and application to propagation in bounded and unbounded media. Elementary plasma physics. Radiation of electromagnetic waves. Dipoles and antenna arrays, guided waves and diffraction.

### **PHYS 405: MATHEMATICAL METHODS IN PHYSICS II**

**3 Credits**

Partial differential equations; solutions of boundary value problems of P.D.E. by various methods: Separation of variables, method of integral transforms; Sturm-Liouville theory, uniqueness of solutions; Calculus of residues and applications to evaluation of integrals and the

summation of series: Kernels; Neumann and Fredholm equations; Applications to various physical situations which may include electromagnetic theory, sound waves, quantum theory and diffusion-phenomena. **Pre-requisite: PHYS 311**

**PHYS 406: ATOMIC AND MOLECULAR SPECTROSCOPY 3 Credits**

The hydrogen atom. Relativistic effects and spin. Identical particles and symmetry. Many electron atoms. Coupling schemes and vector model. Zeeman effects, Hyperfine structure. The diatomic molecule, the Frank Condon principle. X-ray diffraction. Microwave methods. Resonance phenomena; ES, MMR and optical pumping and Mossbauer scattering. This course deals with the study of atoms of elements such as hydrogen and diatomic molecules. Relativistic effect and spin are applied and certain processes such as diffraction, resonance, pumping and scattering are employed. **Pre-requisite: PHYS 402**

**PHYS 407: DIGITAL ELECTRONICS 3 Credits**

The transistor as a switch, power dissipation base over drive storage drive and switching speed, logic gates; NANO OR with close logic, the TTL AND gate, Truth table, noise margins, television pole, open collector and tristate, TTL, CMOS, NMOS, ECL combinational systems. Boolean algebra, identities, De-Morgan's Law, Karnaugh maps; QuineMcCluskey minimization by computer aided techniques. The half and full adder, Flip-flop: R-S, J-K and D types edge and level trigger, master slave types, the shift register. Circuit techniques. Oscillation sine wave amplitude control, sequencing frequencies stability. Waveform discrimination. Practical ramp generators. Conversion techniques, frequency to voltage staircase, analogue to digital, D to A. Termination of pulsed lines, Boolean diagram. Low noise amplifier design. Use of discrete components for minimum noise.

This course deals with the use of digital electronics to measure, analyse, represent and present physical data. Control and Termination techniques are also emphasized. **Pre-requisite: PHYS 309.**

**PHYS 408: ANALYTICAL MECHANICS III 2 Credits**

General methods of mechanics, Generalized coordinates, Notation, Transformation equation, Classification of mechanical systems. Scleromic and rheonomic systems. Holonomic and non-holonomic systems, conservative and non-conservative systems. Kinetic energy generalized velocities. Generalized forces. Lagrange's equations for non-holonomic systems. Lagrange's equations with impulsive forces. **Pre-requisite: PHYS 206**

**PHYS 409: COMPUTATIONAL PHYSICS 3 Credits**

Use of numerical methods in physics; various methods of numerical differentiation and integration; Numerical solutions of some differential equations of interest in Physics and Engineering; Statistical analysis of experimental data. **Pre-requisite: PHYS 206**

**PHYS 490: RESEARCH PROJECT 6 Credits**

Undergraduate project/research report work. It could either be an experimental or theoretical work carried out under supervision of member of staff. A detailed report of such a project or research work is expected at the end of the finding(s) and to be followed by a seminar presentation. The final assessment will be a collective responsibility of all examiners in the department.

**PHYS 412: NUCLEAR AND PARTICLE PHYSICS II 2 Credits**

Nuclear instrumentations and radiation detection techniques, detectors, nuclear spectroscopy. Neutron physics; production, detection of neutrons. Fission and fusion. Nuclear reactor and nuclear energy. Elementary particles; Conservation laws, partial classification. Strong electromagnetic and weak interactions. The course is about the study of nuclear structure, masses and forces, and other phenomena related to nuclei. The course also is about nuclear instrumentations and radiation detection techniques. It explores different methods to detecting and studying nuclear structures and phenomena. **Pre-requisite: PHYS 321**

**PHYS 413: ADVANCED PHYSICS OF THE EARTH INTERIOR 3 Credits**

Structure of the Earth. Conductivity and heat flow. Elasticity, dynamo theory, magnetic field. **Pre-requisite: PHYS 202**

**PHYS 414: ASTRONOMY 2 Credits**

An introduction to the physics of stars, galaxies and the universe based on observational data on stellar electromagnetic radiation, stellar parameters: mass, radius luminosity. Stellar systems and classification, Stellar interior and models, Energy generation and transport, Stellar pulsation: inter-stellar space, Stellar evolution, Galaxies: intergalactic space, Solar atmosphere, solar activity and radiation, The solar system: Planets, moons, comets, and meteors, Cosmology: Hubble's law, Luminosity and redshift, High energy particle, cosmic rays, supernovae, pulsars. **Pre-requisite: PHYS 209**

**PHYS 415: INTRODUCTION TO MEDICAL PHYSICS 2 Credits**

Production of Isotopes. Nuclear Scanning and Tracer. Nuclear Magnetic Resonance. Interactions of Radiation with Matters: photoelectric effects, Compton scattering, pair production and attenuation.

**PHYS 416: BIOPHYSICS 2 Credits**

Ionization of biomolecules, thermodynamic principles; Energy transfer in living systems Bioelectricity – ion channels, action potentials nerve impulse transmission. Study of the electric cell.

**PHYS 417: POWER ELECTRONICS 2 Credits**

Power semiconductor components: Diac, Triac, Unijunction transistor (UJT), Shockley diodes, Thyristors, MOSFET and its construction, characteristics and applications; Power rectifier devices; Phase sensitive detection: 1-Phase full wave and 3-Phase full wave rectifier circuits; Controlled rectifier circuits: 1-Phase half wave and full wave, 3-Phase half wave and full wave controlled rectifier circuits; Choppers: types A and B four quadrant chopper circuits; A.C. to D.C. converters; A.C. to D.C. transmission links; Amplification of power semiconductor circuits; Regulated power supplies circuits; Uninterruptible power supplies circuits  
The course emphasizes the handling of commercial power electronics by the students as part of their physical training especially the UPS.

## DEPARTMENT OF MICROBIOLOGY



*Daniel A. AINA, PhD*  
*Head of Department*

### *STAFF LIST*

<b>S N</b>	<b>Name of Lecturers</b>	<b>Qualifications</b>	<b>Designation</b>	<b>AREAS OF SPECIALIZATION</b>
1	Stephen O. FAPOHUNDA	B.Sc., M.Sc., Ph.D.	Professor	Industrial Microbiology/Mycotoxico- logy
2	Olufunmiso O. OLAJUYIGBE	B.Sc., MSc., Ph.D.	Associate Professor	Medical/Pharmaceutical Microbiology
3	Chibundu N. EZEKIEL	B.Sc., M.Sc., Ph.D.	Associate Professor	Food Microbiology/ Mycology
4	Daniel A. AINA	B.Sc., M.Sc., Ph.D.	Associate Professor	Industrial Microbiology

5	Cajethan O. EZEAMAGU	B.Sc., M.Sc., Ph.D.	Lecturer I	Environmental Microbiology
6	Babasola A. OSOPALE	B.Sc., M.Sc., Ph.D.	Lecturer II	Food Microbiology
7	Adeoye-Isijiola M.O	B.Sc., M.Sc. (Ph.D. in view)	Lecturer II	Medical Microbiology
8	Grace O. MENSAH-AGYEI,	B.Sc., M.Sc. (Ph.D. in view)	Lecturer II	Medical Microbiology
9	Chinweizu O. ONUMAEGBU	B.Sc., M.Sc. (Ph.D. in view)	Assistant Lecturer	Microbiology
10	Oluwawapelumi, A. OYEDELE	B.Sc., M.Sc. (Ph.D. in view)	Assistant Lecturer	Microbiology
11	Kolawole I. AYENI	B.Sc., M.Sc.	Assistant Lecturer	Microbiology
<b>ADJUNCT STAFF</b>				
12	Segun G. JONATHAN	B.Sc., M.Sc., Ph.D.	Professor	Food Microbiology/Mycology
<b>TECHNICAL STAFF</b>				
13	Abosede A. AKEREDOLU	HND, PGD, M.Sc. (ANISLT)	Ass. Chief Lab Tech.	Microbiology
14	Temitope E. OYEWOLE	OND, SLT/HND Microbiology	Laboratory Technologist	Microbiology
15	Omolara E. ADETILORO	ND. SLT, B.Sc., SLT/Microbiology	Laboratory Technologist	Microbiology
<b>ADMINISTRATIVE STAFF</b>				
16	Rachael I.AWOYINKA	NCE, B. Sc., M.Sc.	Principal Administrative Officer	Agric Extension

## **BACHELOR OF SCIENCE (B.Sc. Hons) MICROBIOLOGY**

### **INTRODUCTION**

Microorganisms continue to have a very profound effect on life and cases of diseases caused by them have been referenced even in the Holy Scriptures. Microbiology, the scientific discipline that studies these ultramicroscopic “creatures”, has evolved over the centuries. There have been an older techniques used by pioneer microbiologists over the years while tremendous new technologies have been developed to tackle the problems of emerging and re-emerging disease pathogens, and to re-engineer these microbes in order to make them useful to mankind.

The Department of Microbiology is located in the School of Science and Technology, Babcock University, and it offers Bachelor of Science degree in Microbiology. The main thrust of the Department is to provide knowledge to the study of microorganisms and their effects on man and his environment. The Department is headed by a qualified microbiologist with a long academic



and administrative experience, and supported by qualified academic, administrative and laboratory support staff who participate in the day to day administration of the Department. As a policy, the Department strives to uphold excellence in teaching, research programs and service delivery so as to assist the students to harness their academic and spiritual potentials within the context of the mission and philosophy of Babcock University.

### **VISION STATEMENT**

The frontier of research and invention/innovation.

### **MISSION STATEMENT**

The Department aspires to produce outstanding graduates through creation and dissemination of microbiological knowledge for the betterment of humanity.

### **PHILOSOPHY**

Within a conducive and spiritually harmonious learning environment as obtained at Babcock University, the Department remains poised at training undergraduate students to acquire the right techniques and skills with which to harness the beneficial aspects of microorganisms. Our training in the form of lectures, tutorials and seminars, practical and project work, tests, assignments and examinations is geared towards producing competent and well trained microbiology graduates empowered to become self-reliant as well as fit into the manpower need of the nation where microbiology expertise is greatly needed.

### **OBJECTIVES**

The Department aims at realizing the following objectives.

1. To offer programs leading to the award of Bachelor of Science (B.Sc.) in Microbiology to support scientific and technological development programs of the country.
2. To provide for the students an effective Christian background for proper moral upbringing upon which to develop entrepreneurial and problem-solving abilities that would impact positively on society.
3. To provide competent graduates who can be self-reliant in a competitive economy, locally and internationally.
4. To provide effective teaching and cutting-edge research in a student-friendly environment for the purpose of producing well motivated graduates.
5. To provide the students with appropriate laboratory skills and field experience required to make them fit for careers in Agriculture, Medical establishments, Environmental studies, Research institutes and other Industries.

### **DEPARTMENTAL PROGRAMME**

Bachelor of Science B.Sc. (Hons.) Microbiology

### **ADMISSION REQUIREMENTS**

Prospective candidates for the program must have 5 ordinary level credits or equivalent in English language, Biology, Chemistry, Mathematics and Physics in not more than 2 sittings. In addition, candidates must sit and pass the Babcock University entrance (written and oral) examinations.

## GRADUATION REQUIREMENTS

Minimum number of semesters for graduation in this program is 8. All other conditions are in line with BU policy. The minimum number of credits requirement for B. Sc. Microbiology is 169 and maximum number of credits required is 175.

### COURSE CREDIT DISTRIBUTION

LEVEL	GEDS COURSES	DEPARTMENTAL COURSES	NON-DEPARTMENTAL COURSES	TOTAL
100	19	0	24	43
200	17	9	26	52
300	7	34	2	43
400	7	26	9	42
Sub-Total	50	69	61	180

### B.Sc. (Hons.) MICROBIOLOGY 100 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
	CORE COURSES		
BIOL 101	General Biology I	3	-
BIOL 102	General Biology II	-	3
CHEM 101	General Chemistry I	3	-
CHEM 102	General Chemistry II	-	3
MATH 101	General Mathematics I	3	-
MATH 102	General Mathematics II	-	3
PHYS 101	General Physics I	3	-
PHYS 102	General Physics II	-	3
	TOTAL (43 Credits)	22	21

**B.Sc. (Hons.) MICROBIOLOGY**  
**200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	GENERAL EDUCATION COURSES		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	2	-
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 222	History and Philosophy of Science	-	2
GEDS 260	Environment and Sustainable Development	-	2
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 290	Spreadsheet and Digital Presentations	-	2
GEDS 280	Leadership Skills	-	2
	CORE COURSES		
BCHM 201	Foundation of Biochemistry I	3	-
CHEM 201	Inorganic Chemistry I	3	-
CHEM 213, 214	Organic Chemistry I ,II	3	3
MBIO 201, 202	General Microbiology I, II	3	3
MBIO 205	Techniques in Microbiology	3	-
	*ELECTIVE COURSES		
BIOL 201	Genetics I	2	-
BIOL 208	Ecology I	-	2
BIOL 220	Introduction to Plant and Animal Physiology	-	2
BOTA 308	Economic Botany	-	2
STAT 204	Biostatistics	-	2
BIOL 206	Cell and Developmental Biology	-	2

ZOOL 202	Lower Invertebrates (Acoelomate/coelomate)	-	2
<b>TOTAL (48 Credits)</b>		<b>24</b>	<b>24</b>

**\*Students are to select 2 units of elective in first semester and 8 units of elective Courses in the second semester.**

**B.Sc. (Hons.) MICROBIOLOGY  
300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 317	Religion and Social Ethics	3	-
	CORE COURSES		
MBIO 316	Ecology of Microbes	-	3
MBIO 317	Microbial Genetics and Molecular Biology	3	-
MBIO 318	Fundamentals of Virology	-	3
MBIO 319	Fundamentals of Bacteriology	3	-
MBIO 321	Fundamentals of Mycology	3	-
MBIO 322	Basic Research Methodology	-	2
MBIO 323	Introduction to Microbial Physiology and Metabolism	3	-
MBIO 325	Immunology	3	-
MBIO 331	Food Microbiology	3	-
MBIO 360	Students Industrial Work Experience (SIWES)	-	6
	*ELECTIVE COURSES		
BIOL 301	Genetics II	2	-
BOTA 313	Plant Pathology	2	-
MBIO 312	Biodeterioration	-	2
ZOOL 304	Biology of Tropical Parasites	-	2

	<b>TOTAL (43 Credits)</b>	<b>25</b>	<b>18</b>
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**\*Students are expected to select one elective course per semester.**

**B.Sc. (Hons.) MICROBIOLOGY  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	<b>0</b>	<b>0</b>
GEDS 400	Introduction to Entrepreneurial Skills	-	2
GEDS 440	E-Project Management and Simulation	-	2
GEDS 420	Biblical Principles in Personal and Professional Life	3	-
	<b>CORE COURSES</b>		
MBIO 402	Industrial Microbiology	-	3
PHSC 425	Principles of Epidemiology and Public Health	3	-
MBIO 411	Petroleum Microbiology	3	-
MBIO 414	Pharmaceutical Microbiology	-	3
MBIO 418	Clinical and Medical Microbiology	-	3
MBIO 420	Microbiology and Environment	3	-
MBIO 425	Microbiological Analyses and Quality Control	3	-
MBIO 433	Seminar	2	-
MBIO 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
MBBT 405	Introduction to Bioinformatics	2	-
MBBT 413	Introduction to Biotechnology	2	-
ZOOL 402	Principles of Parasitology	-	2
	<b>TOTAL (42 Credits)</b>	<b>21</b>	<b>21</b>

**\*Students are expected to take one elective course per semester.**

## **B.Sc. (Hons.) MICROBIOLOGY**

### **COURSE DESCRIPTIONS**

#### **BIOL 101: GENERAL BIOLOGY I                      L: 2 P: 1 T: 1                      3 Credits**

This course is aimed at understanding some basic concepts in Biology. Characteristics of living and nonliving things. Cell, tissue, organ and organ system levels of organization. Basic cell types: Prokaryotic and Eukaryotic cells. Cell structure and organization. Function of cellular organelles. Mitosis. Meiosis and heredity. Elements of Biological chemistry – aspect of organic, inorganic and physical chemistry relevant to Biology. Interrelationship among organisms. Biology as a discipline is richly represented in the pages of the bible. The course emphasizes the beauty of God's creation from the simplest 'cell' to a more complex 'whole organism' (Ps 139 v13-14)

#### **BIOL 102: GENERAL BIOLOGY II                      L: 2 P: 1 T: 1                      3 Credits**

This course is designed to understand the diversity of living things. A brief account of the evolution of plants: Bacteria, Fungi, Algae, Lichens, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms. The major characteristics, structure and physiology of each group. Ecology and types of habitat. Diversity of life-Acellular animal (protozoa), Coelenterates, Acoelomate animals (Platyhelminthes). Nematode, Mollusca, Arthropods, Echinodermata, Chordates concept of ecology of the organisms. God created all living things both plants and animals as recorded in Gen. 1 and also showed Himself as the first biologist accurately describing the behaviours and features of some organisms (Job 39v 1-30).

**CHEM 101: GENERAL CHEMISTRY I****L: 2 P: 1 T: 1 3 Credits**

Atoms, molecules and structure, states of matter, thermochemistry, chemical kinetics, acids bases and salts, equilibria, solutions, oxidation and reduction, electrochemistry.

**CHEM 102: GENERAL CHEMISTRY II****L: 2 P: 1 T: 1 3 Credits**

Chemical Bonding: The periodic Table; Inorganic Chemistry of main groups I,II III & IV; Basic Principles of Organic Chemistry; Structural Terminology; Functional Group Chemistry.

**MATH 101: GENERAL MATHEMATICS****L: 2 P: 1 T: 1 3 Credits**

(Prerequisite: O'level Mathematics or equivalent) Elementary set theory, subsets, union, intersection, complements, Venn diagrams, real numbers, integers, rational and irrational numbers, mathematical induction, real sequences and series theory of quadratic equations, binomial theorem. De Moiré's theorem, nth roots of unity. Circular measure, trigonometric functions of angles of any magnitude, additional and factor formulae.

**MATH 102: GENERAL MATHEMATICS****L: 2 P: 1 T: 1 3 Credits**

Function of real variable, graphs, limits and idea of continuity. The derivatives, as limit of rate of change. Techniques of differentiation. Extrema curve sketching: Integration as an inverse of differentiation. Methods of integration. Define integrals; Application to areas, volume.

**PHY 101: GENERAL PHYSICS I****L: 2 P: 1 T: 1 3 Credits**

Space and time, frame of reference, units, measurements and dimensions. Vectors, kinematics, velocity and acceleration. Forces, mass and acceleration forces acting on a particle, and on a system of particles, statics of rigid bodies. Momentum. Integration of equations of motion. Motion along a curved path, simple harmonic motion. Energies of particles. System of particles. Angular momentum. Gravitation. Fluid statics and fluid dynamics. Gases and thermal motion. Heat. Zeroth law. First and second laws of thermodynamics, Entropy. Elasticity, Hooke's law, Young modulus, machines.

**PHY 102: GENERAL PHYSICS II****L: 2 P: 1 T: 1 3 Credits**

Sound waves, electromagnetic waves. Waves and their phenomena: interference, Diffraction, Reflection, Refraction and Polarization. Geometrical optics. Electrostatics. Electric charges and fields. Gauss's law. Electric potential. Conductors and dielectrics in electrostatics, Capacitors electric current and resistance. Electric circuits. The forces exerted by a magnetic field. Magnetic fields produced by steady current. Magnetic properties of matter. Maxwell's equations. Electromagnetic oscillations and waves, applications. Elementary modern physics, Bohr's Theory, Photoelectric effect. De Broglie equation and elementary semiconductor physics. Alternate current.

**BIOL 201: GENETICS I****L: 1 P: 1 T: 1 2 Credits**

This course focuses on how traits/characters are transferred. Heritable and non-heritable characters. Mendelism. Probability and test of goodness of fit Quantitative inheritance. Source

and applications of variation in genome structure. Extra nuclear polygenic inheritance. Introduction of population genetics: Hardy-Weinberg theory, gene frequencies etc. pre-requisite: BIO 101. Spiritual genetics began from God in Gen 1 v 27. He made man in His image and seek to see man replicate His nature. Jesus used various examples to illustrate traits' transfer from parent organisms to their offspring (Mk 7 v 16-18)

**BIOL 206: CELL AND DEVELOPMENTAL BIOLOGY L:1 P:1T:1 2 Credits**

History and modern trends in cell biology. Structure and function of cell organelles, membranes and cell wall. A brief study of the molecular basis of cell structure and development. Amino and nucleic acids. Reproduction, cell division, differentiation and growth.

**BIOL 208: ECOLOGY I L: 1 P: 0 T: 1 2 Credits**

This course is designed to study the interrelationship between living organisms and their environment. Ecosystem and community structure, ecological factors, affecting plants and animals in terrestrial and aquatic habitats. Major terrestrial humans, productivity energy flow and nutrient cycling: pollution, Adaptations of living organisms. Right from creation God has ordained a relationship between organisms. While man and other animals were predominantly vegetarian before the fall (Gen 1 v 29-30), after the fall, other feeding relationship evolved (Gen 9v 2-3)

**BIOL 220:INTRODUCTION TO PLANT AND ANIMAL PHYSIOLOGY L: 1 P: 0 T: 1 2 Credits**

This course aims at relating organisms' structures to their functions. Metabolism and energy production. Circulatory system of animals. Homeostasis nervous and hormonal control of systems. Excretion and osmoregulation. A survey of the fundamental principles of plant physiology including photosynthesis, respiration, cell-water relationship, mineral nutrient uptake and deficiency symptoms. God is a perfect designer who constructed the various tissues, organs and systems in living things each designated to perform particular function(s) by making use of certain biological processes (Ps 139v 13-14).

**CHEM 201: INORGANIC CHEMISTRY L: 2 P: 1 T: 0 3 Credits**

Review nature of Atom, Niels Bohr's postulation of electron, Nature of Electron-particles or waves; Structure of simple covalent molecules, Sidgwick-Powell Theory of Molecules; Molecular Orbital Theory; Physical properties of Elements; Complex Ion Formation; Application of Redox Potential; Concepts of Soft and Hard Acids and Bases; Comparative Chemistry of Groups V, VI & VII Elements; Application of some important Inorganic Chemicals in Chemistry, Agriculture, Medicine and Industry.

**CHEM 213: ORGANIC CHEMISTRY I L: 1 P: 1 T: 1 3 Credits**

Kinetics and Energetics of Reactions; Multiple Bonds; Aromatic Compounds; Chemistry of C-Halogens Bond; Chemistry of Hydroxyl group; Ethers, Thioethers and Thioethers.

**CHEM 214: ORGANIC CHEMISTRY II L: 1 P: 1 T: 1 3 Credits**



Amines and Derivatives; chemistry of the Carbonyl group; Chemistry of Carboxylic Acids and Derivatives; Heterocyclic chemistry, Lipids, Carbohydrates, Chemistry of Amino Acids and proteins.

**MBIO 201: GENERAL MICROBIOLOGY I L: 2 P: 1 T: 1 3 Credits**

This course is designed to introduce students to historical aspects including origins and scope of Microbiology. Introduction to various forms and characteristics of microorganisms including bacteria, viruses, fungi, protozoa and algae. It also gives a brief account of their growth, reproduction, and distribution in nature, their relationships to each other and other living things and their beneficial and harmful effects on man. It also reviews the control of microbial pollution involving both physical and chemical agents. God wants His creatures to be in good health as our soul prospers (3John 2), therefore excellence in personal hygiene is very key to avoiding microbial infections.

**MBIO 202: GENERAL MICROBIOLOGY II L: 2 P: 1 T: 1 3 Credits**

This course is aimed at further introduction of scope of Microbiology. Systematic classification and economic importance of microorganisms including bacteria, fungi, protozoa, and viruses will be examined. Microorganisms as biogeochemical agents including cycles of elements such as Nitrogen, Sulphur, phosphorous and carbon will also be examined. Emphasis to be placed on laboratory methods involving the cultivation, isolation, cultural characteristics, identification and preservation of microorganisms. Pre – requisite: MBIO 201. God wants His creatures to be in good health as our soul prospers, therefore excellence in personal hygiene is very key to avoiding microbial infections.

**MBIO 205: TECHNIQUES IN MICROBIOLOGICAL L: 1 P: 1 T: 1 3 Credits**

The course highlights the safety precautions in the laboratory. Methods of sterilization, and disinfection. Types of culture media and media preparation. Isolation and characterization of Bacteria from air, water, soil, food materials, skin, sore and drugs. Biochemical Test: Staining techniques, photomicrography. Analysis of metabolites from selected Fungi/Bacteria – Centrifugation, Electrophoresis, Chromatography. God wants His creatures to be in good health as our soul prospers, therefore excellence in personal hygiene is very key to avoiding microbial infections.

**BCHM 201: FOUNDATIONS OF BIOCHEMISTRY I L: 2 P: 1 T: 1 3 Credits**

Experimental discoveries and the history of biochemistry. Contributions of the following biochemists to the subject: Nueberg, Emil Fisher, Warburg, Michaelis-Menten, Krebs, C. Cori and G Cori, Hills Ochoa, Calvin and Benson, Watson and Crick, Jacob, Monod, Niremberg, Sanger, Bornberg and others. Structures and functions of major cell components; Prokaryotic versus Eucaryotic organisms. Chemistry of amino acids, proteins and their derivatives; Methods of isolation and identification; Chemistry and structures of carbohydrates, proteins, lipids and nucleic acids.

**BOTA 308: ECONOMIC BOTANY L:I P:1 T:1 2 Credits**

Plant used by indigenous people of West Africa for human diseases. Ethnoveterinary medicine. Plants used as dyes, food, colours, preservatives and pesticides. Wild edible fruits, collection, preservation, and conservation techniques. Agro botanical characteristic of selected Nigerian

crops; tree crops e.g. cocoa, food crops e.g. cassava, rice; oil plants e.g. palm tree, groundnut; Elastomers e.g. rubber; vegetables e.g. tomatoes, fruits e.g. pineapple; spices cinnamon, pepper; etc economic potential of lower organisms e.g. algae.

**STAT 204: BIOSTATISTICS**

**L: 1 P: 0 T: 1 2 Credits**

Aims, characteristics and applications of biostatistics. Vital statistics. Measure of central tendencies and variation. Collection and presentation of data. Probability sampling. Tests of statistical significance. Experimental designs and clinical trials. Other application of biostatistics to clinical and preventive medicine.

**ZOOL 202: LOWER INVERTEBRATES (ACOELOMATES AND COELOMATES)**

**L:1 P:0 T:1 2 Credits**

A survey of the organization and biology of protozoa, Porifera, Cnidaria, Ctenophora, Platyhelminthes, Nemertines, Rotifera and Nematode, Annelida, Arthropoda, mollusca, Echinodermata.

**BIOL 301: GENETICS II**

**L: 1 P:0 T:1 2 Credits**

The aim of this course is to study the genes in relation to species variation, inheritance and evolutionary change. Molecular structure of the chromosomes. Gene structure, function and interactions. Structure changes in the genes and deviation from basic principles. Aspect of genetics. Pedigree analysis. Theories of Lamarck, Darwin, speciation variation, natural selection, artificial selection of plant and animal. Natural and artificial hybrids. Since creation we have witnessed a slight modification in the way God dealt with man (Gen 6v3). Evolutionary accounts of modification of parts through speciation and natural selection in modern science found its base in the Bible.

**MBIO 312: BIODETERIORATION**

**L:1 P:1 T:1 2 Credits**

This course focuses attention on the principles of microbial deterioration of materials. Materials subject to microbial deterioration: Foods, jet, fuel, paper, paints, textiles and leather, metals etc. Factors favoring deterioration of materials. Major microbial groups involved in deterioration. Impact of processing and new technologies on biodeterioration. Biodeterioration control. Virtually, everything in nature is subject to deterioration depending on time. Therefore, materials in our possession are to be excellently taken care of to prolong their shelf life. God is interested in the well-being of His creatures.

**MBIO 316: ECOLOGY OF MICROBES**

**L:2 P:1 T:1 3 Credits**

The course studies the dispersal of and colonization of microorganism in different ecosystems. It also examines microbial ecology of air, soil and water. Ecology of microorganisms in specific habitats e.g. skin, mouth, intestine, phyllo plane and rhizosphere. Air microbiology; sources of air pollution. Indices of air pollution. Microorganisms and other organisms important in aquatic systems and disposals. Microbiological and chemical examination of water. Pre requisite: MBIO 201, MBIO 202, BCHM 201, BIO 101. Two are better than one, because they have a good reward for their labour. Microorganisms work together as a team in order to achieve microbial succession.

**MBIO 317: MICROBIAL GENETICS AND MOLECULAR BIOLOGY L:2 P:1 T:1**

### **3 Credits**

This course is designed to study the survey of the current status of microbial genetics with reference to bacteria, viruses, protozoa and fungi, including discussion of methods and findings in the area of mutagenesis, induction, isolation and chemical characteristics of mutants, adaptation, transformation transduction conversion and conjugation. DNA transcription and translation. Virulent and temperate phages and lysogenic bacteria. Recombinant DNA Technology and cloning. Transposons. Application of genetic engineering in medicine, industry, agriculture land and forensic science. Recombinant DNA technology, methods in cloning and isolation of genes. Transposons, application of genetic engineering in medicine, industry and agriculture will be examined in this course. The wonders of DNA strands and arrangements point to the existence of an intelligent designer known as God Almighty. God is excellent.

#### **MBIO 318: FUNDAMENTALS OF VIROLOGY L:2 P:1 T:1 3 Credits**

This course deals with the study of virus and its classification. Viral architecture, laboratory diagnosis of viral infections. Viral strandedness. Mode of transmission. General characteristics of plant, animal and bacterial viruses, viral replication; spread and cytopathic effects. Viral cultivation, purification and assay. Viral-host interactions. General methods of control and prevention of viral diseases. Interferon, immunotherapy and chemotherapy in viral infections, inclusion bodies and cytopathic effects. Viral vaccines and immunoprophylaxis. Everything created was good until the advent of sin that brought various diseases including HIV that can be contracted mainly from immoral acts. Turning back to God will bring sanity.

#### **MBIO 319: FUNDAMENTALS OF BACTERIOLOGY L:2 P:1 T:1 3 Credits**

The course deals with bacteria, the morphology and structure of bacteria. Bacterial internal and external structures and functions. Cultivation of bacteria – nutritional requirements and bacteriological media. Physical conditions for bacterial growth – temperature and gas requirements. Bacterial growth and reproduction. Classification, isolation and identification of bacteria from air, water, soil, sewage and other sources. Characteristics of selected bacterial genera. Bacterial genetics (transformation, transduction and conjugation). Pre requisite: MBIO202. Bacteria oftentimes work as a consortium in bringing about desired deterioration. Humanity has to cooperate with divinity to bring about desired change in our world. Team spirit is very essential.

#### **MBIO 321: FUNDAMENTALS OF MYCOLOGY L:2 P:1 T:1 3 Credits**

The course aims at studying the structure, life cycle, physiology and classification of fungi. The course also exposes students to fungi of economic importance in industry and agriculture. Terminologies used in modern mycology. Structure, function and growth of specified representatives of lower and higher fungi. Industrial mycology, Enzymes from fungi, mycotoxins. Mushroom cultivation and significance. As fungi have beneficial and harmful effects, obedience to God has rewards while disobedience attract penalty.

#### **MBIO 322: BASIC RESEARCH METHODOLOGY L:1 P:0 T:1 2 Credits**

This course involves theory and statistical principles of research techniques in Microbiology, planning of research and investigation methods. Data collection, organization and presentation

related to research in Microbiology. The use of experimental and analytical techniques in Microbiology interpretation of results, correlation ship, levels of significance, regression analysis, standard error and deviations, sample distribution, use of percentiles and percentages. Facts keep changing but truth remain the same from generation to generation. All truth is God's truth.

### **MBIO 323: INTRODUCTION TO MICROBIAL PHYSIOLOGY AND METABOLISM**

**L:2 P:1 T:1**

**S3 Credits**

The course aims at teaching students the dynamics of growth, nutrition and energy metabolism of microorganisms. Effect of physical and chemical factors on growth. Biochemistry of various microbial processes such as transport, respiration. Biosynthesis of microbial products. Pre-requisite: MBIO 202, BCHM 201. The double helical structure of DNA couldn't have been unless there is an intelligent designer somewhere who is God that make everything possible.

### **MBIO 325: IMMUNOLOGY**

**L:2 P:1 T:1 3 Credits**

The focus of this course is on principles of Immunity – an overview. Types of Immunity; Non specific (innate) immune response. Physical and chemical barriers in resistance. Cytokines/interferons/Bacteriocins/Complement. Cells, Tissues and Organs that mediate in immune responses. Specific (Adaptive) Immunity – types of specific immunity (Naturally acquired immunity/Artificially acquired immunity). B-cells and T-cells. The Major Histocompatibility Complex. Immunoglobulins – Structure, function and classes of immunoglobulins. Cell mediated immunity. Basic Immunological techniques – agglutination, precipitation tests, ELISA Technique, Immunodiffusion tests. Harmful effects of Immunity – (Hypersensitivity) – Types of hypersensitivity. Autoimmune diseases. Unconfessed sins hinder divine health by making the body work against itself. Integrity is key to living a life of holiness that glorifies God.

### **MBIO 331: FOOD MICROBIOLOGY**

**L:2 P:1 T:1 3 Credits**

The course deals with and emphasizes the distribution, role and significance of microorganisms in food. Factors that affect microbial growth in foods. Food spoilage and food-borne diseases. Food preservation techniques (including irradiation). Microbial indices of food quality. Food Microbiological standards. Pre requisite: MBIO 201, MBIO 202, BCHM 201. God is interested in conservation of resources as depicted in the miracle Jesus commanding the gathering of excess food after feeding the five thousand crowd. Hence, spoilage of food should be avoided as much as possible.

### **MBIO 360: STUDENT INDUSTRIAL WORK EXPERIENCE (SIWES) L:0 P:3 T:1**

**6 Credits**

Students will be attached to some industrial organisations for about 3 months. At the end of the period of practical industrial exposure, a written report is submitted, together with the report of daily activity of the student as approved by the industry and other relevant documents, to the department for assessment. Team spirit is required for any student that aims for success in industrial work experience.

### **BOTA 313: PLANT PATHOLOGY**

**L:1 P:1 T:1**

**2 Credits**

Ecological and epidemiological aspects of fungal, viral and bacterial diseases of plants. Importance of field crop disease; detailed study of symptoms, etiology, disease cycle and method of perpetuation of tropical plant diseases (fruits, vegetable, ornamentals and economic plants), Seed-born, soil born and post harvest diseases and their control (prophylactic and curative). Methods for collection, handling, transport and preservation of diseases specimens. Isolation and identification of pathogens from disease samples; maintenance and preservation of cultures

**ZOOL 304: BIOLOGY OF TROPICAL PARASITES L:2 P:1 T:1 2 Credits**

Classification of parasites of medical and veterinary importance. Description of their peculiar morphology anatomy and life cycles. Specific references to their adaptive features and strategies for survival in their respective habitats.

**MBIO 402: INDUSTRIAL MICROBIOLOGY L:2 P: 1 T:1 3 Credits**

The course aims at introducing students to industrial microbiology. Fermentation systems; design and use of fermenters. Microorganisms of industrial importance. Cultivation and preservation of industrial microorganisms. Production of antibiotics, vaccines, vitamins and industrial solvent. Production of industrial microorganisms. Production of vaccines, antibiotics, enzymes and vitamins. Biofuels and single cell protein production. Quality control and waste management in selected industries will be taught, Study visit to selected industries of relevance. Pre – requisite: MBIO 201, MBIO 202, MBIO 319, BCHM 201. He that does not work should not eat says the scriptures, therefore, every created being has to be productive.

**MBIO 411: PETROLEUM MICROBIOLOGY L:2 P:1 T:1 3 Credits**

This course will encompass the detailed study of the carbon cycle. Theories about the genesis of fossil fuels with emphasis on microbiological influence. Prospecting for oil by means of microbial indicators. Drilling: Corrosion of pipes and equipment – microbiology of the process. Acid mine drainage. Risks posed by bioleaching, physiology and genetics of *Thiobacillus ferrobacillus* and *Desulfovibrio* species. Environmental aspects of oil shale oxidation including industrial waste disposal. Effects of oil spills on microbial ecology of seas and soils. Problems in transportation and storage – microbial decomposition of petroleum – economic considerations and control methods. Structure and recalcitrance of by-products of the petroleum industry including plastics, waxes, sprays, paints and oils. Fungal influence on these products. Equipment and models of experimentation in petroleum microbiology research. Relationships with other fields of petroleum technology. God endowed humanity with natural resources, it is our responsibility to judiciously use the given wealth.

**MBIO 414: PHARMACEUTICAL MICROBIOLOGY L:2 P:1 T:1 3 Credits**

The course is intended to expose students to the chemistry of synthetic chemotherapeutic agents and antibiotics. Production and synthesis of antibiotics and anti-microbial agents. Quality control of pharmaceutical products. Concepts of growth and death in microorganisms. The mode of action and assay of anti-microbial agents. Concepts of antibiotic sensitivity and resistance as related to microbial physiology. Pre – requisite: MBIO201, MBIO202. Medicinal

plants were created by God to keep man in perfect health, excellent use of such plants is required for maximum outputs.

**MBIO 420: MICROBIOLOGY AND ENVIRONMENT L:2 P: T:1**

**3 Credits**

This course is designed to study air microbiology; sources of air pollution. Indices of air pollution. Microbiological quality of air, relevant organisms in aquatic systems. Ecology of microorganisms in fresh water and marine pollution. Self-purification of water. Microbiological and chemical examination of water. Water quality standards. Microbiological sewage and methods of sewage treatment and disposal. Visits to sewage plants and water treatment plants. Prerequisite: MBIO 201, MBIO 202. God created man into a perfect environment until the advent of sin that brought hard labour which constantly disrupt the aesthetics of the environment. However, heart yielded in obedience to God will experience restoration.

**MBIO 425: MICROBIOLOGICAL ANALYSES AND QUALITY CONTROL**

**L:2 P:1 T:1**

**3 Credits**

This course will examine the role of microorganisms as reagents in qualitative analysis. Selection and response test organisms for assays (antibiotics, amino acids, vitamins etc). Response of microorganisms used in assays. Obtaining and measuring responses. Preparation of assay samples. Methods of assays. Interpretation of results. Aspects of quality control. Plant and equipment sanitation. Microbiological standards and specifications. Pre-requisite: MBIO 331. The word of God is the acceptable standard for all findings.

**MBIO 418: CLINICAL AND MEDICAL MICROBIOLOGY L:2 P:1 T:1 3 Credits**

This course will focus on the survey of bacteria, fungi and viruses pathogenic to man and animals with emphasis on virulence, type of disease produce and methods of control of those prevalent in Nigeria. The geographical distribution, isolation, identification, morphology, life cycle, source of infection, transmission and the host. Ecology clinical manifestations of specific bacterial, viral and fungal pathogens of man. Methods of viral cultivation and quantification with special reference to tissue culture techniques. Structure, reproduction and classification of pathogenic fungi. Diagnosis (laboratory) and pathogenesis of superficial systemic mycoses, actinomycoses and Chlamydia infections. God promised to heal our land, however every intelligent being has to be responsible to fully appropriate the blessings of God

**MBIO 433: SEMINAR**

**L:0 P:0 T:2 2 Credits**

Under the supervision of a staff, each student is expected to select a topic for detailed study based on literature search. The emphasis should be on recent advances in the chosen field of microbiology. The study shall be presented as a seminar. A write up on the topic shall also be submitted. Facts keep changing but truth remain the same from generation to generation. All truth is God's truth

**PHSC 425: PRINCIPLES OF EPIDEMIOLOGY AND PUBLIC HEALTH**

**L:2 P:0 T:1**

**3 Credits**

The focus of the course is to expose students to the concept of Epidemiology. Nature of epidemiological investigation. Spectrum of infections. General Principles of Microbial disease

transmission: waterborne, airborne, foodborne, arthropod-borne and contagious diseases. Preventive measure in the control of bacterial parasitic and viral infections. Herd immunity. Latency of infection. Multifactorial systems in epidemics. Zoonoses. Antigenic drifts. Vaccines and Immunization programme and schedules. Schedules for International control of infectious diseases. Pre – requisite: MBIO 201, MBIO 202, MBIO 319. God promised to bless our food and our water and keep Egyptian diseases away from His children, however every intelligent being has to be responsible to fully appropriate the blessings of God.

**MBIO 490: RESEARCH PROJECTS L: 0 P: 6 T:0 6 Credits**

Independent research into selected areas/topics of interest. Students will be required to carry out literature survey on the topics, perform experiments under the guidance of an academic staff and produce reports (preferable at the end of second semester). Students will be subjected to both seminar and oral examination on the projects undertaken. Facts keep changing but truth remain the same from generation to generation. All truth is God's truth

**MBBT 405: INTRODUCTION TO BIOINFORMATICS L:1 P:1 T:1 2 Credits**

Basic computational methods applied in problems arising from molecular biology sequence analysis genomics and protein folding, physical and genetic mapping, gene recognition, protein recognition, protein structure prediction. Distance geometry, Sequence analysis, introduction to bioinformatics, genetic analysis, protein structure and functions. Genomics and proteomics. Chemical evolution as basis for computational biology and bioinformatics. Biological sequence databases and bioinformation resources tools. Sequence and algorithms for protein identification by mass spectrometry and data base searching. NP - complete problems in computational molecular biology. Genetics sequence variations (SNPs) and their analysis gene maps, protein expression by 2D gel electrophoresis. Image analysis spectral methods, segmentation, pattern recognition, in 2D gel electrophoresis.

**MBBT 413: INTRODUCTION TO BIOTECHNOLOGY L:1 P:1 T:1 2 Credits**

Historical background, origin and definition of Biotechnology. Scope and Importance of biotechnology. Introduction to Protoplast and Tissue culture, Micropropagation and Genetic Engineering, biosensors, biochips, biofilms, and biosurfactants, virus free plants, somaclonal variations, haploid plants, embryo rescue, somatic hybrids and cybrids, germsplasm, molecular markers, batch and continuous cultures, bioreactors and biosurfactants. DNA repair mechanisms Mutation. Introns, exons, indels, (nonsense genes/codes, junk). Bioregulator and protein engineering. Single cell protein. Insect caterpillars as living protein factories. Race specific resistant genes. Genetic transformation, Enzymes – Restriction enzymes, ligases, alkaline phosphatase, polynucleotide, kinase, terminal deoxynucleotidyl transferase, poly A polymerase (T4 DNA and Taq), RNase, Reverse transcriptase, Poly A polymerase, Deoxyribonuclease I. Applications and hazards of Genetic Engineering.

**ZOOL 402: PRINCIPLES OF PARASITOLOGY L:2 P:1 T:1 2 Credits**

Mode of life exhibited by parasites of medical and veterinary importance-hatching and moulting processes, arrested development and self-cure phenomena. Parasite-host relationship and nature of parasitism in relation to other forms of animal associations. Epidemiological studies and control measures of important tropical parasites and the role of vectors in their transmission. Culture and staining techniques.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE 3 Credits**

A brief account of evolution: Bible versus Science, Origin and ubiquity of microorganisms, Characteristics of major groups of microorganisms (Bacteria, Fungi and viruses), Microbial growth and cultivation (relevance of Mara water), Microbial diseases transmission and healing (Egyptian plaques), Involvement of microorganisms in Nutrient cycling in nature (Decomposition of mana), Term paper: Relevance of Microbiology through ages

**VERONICA ADELEKE SCHOOL OF SOCIAL SCIENCES (VASSS)**





**Olajumoke YACOB-HALISO, PhD**  
*Associate Professor & Ag. Dean, VASSS*



**Goodluck U. MADUKOMA**  
*School Officer*

## **ABOUT US**

The Veronica Adeleke School of Social Sciences (VASSS) was one of the two Schools created out of the old Babcock Business School, under the former College of Management and Social Sciences in September 2015. The School is named after the late Dr Veronica Adeleke, International Relations scholar, erstwhile lecturer in the Department of Political Science and Public Administration, and member of the Adeleke family, friends and stakeholders of Babcock University since inception. The School houses departments that started at the commencement of the University as a chartered private institution in 1999 as well as relatively recent ones.

## **VISION STATEMENT**

Building social scientists who are responsive and responsible servant leaders

## **MISSION STATEMENT**

To establish and provide a cultural, ethical and intellectual environment for incubating and developing public interest-focused civic citizenship, through multidisciplinary and trans-disciplinary teaching and research, whose objective is preeminently to establish and nurture strong links and social networks between town and gown, and training of future generations of community, intellectual, church, political, and global leadership.

## **PHILOSOPHY**

The Veronica Adeleke School of Social Sciences is founded on the principles of service to God and humanity for which Babcock University is known. The School trains high calibre, socially committed students, teachers and researchers who will bring an independent, critical and analytical approach to the explorations of the understanding and resolution of critical social problems. Nigerian and international society are plagued by a deficiency of morally and intellectually sound leadership and critical citizenry which have hampered development, democracy and social advancement. The Veronica Adeleke School of Social Sciences recognizes this need and hopes to re-establish the strong links between town and gown that will see the solution to these challenges. The School will emphasize and promote multi- and trans-disciplinary approaches that bridge science and policy, places a high premium on excellence, accountability, autonomy and responsibility, and produces a generation of leaders of integrity, sound mind and the critical innovation necessary for the lasting transformation of this world, in preparation for the next.

## **OBJECTIVES**

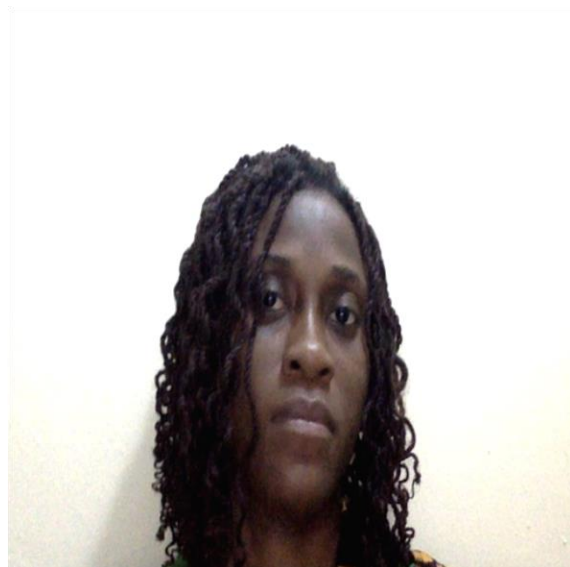
- 1) The holistic development of the individual for service to God and humanity;
- 2) Develop socially conscious persons with the skills and knowledge to transform their communities, nation, and the world;
- 3) Create and nurture links between town and gown for a socially relevant higher education curriculum;
- 4) Collaborate locally, nationally and globally for the realisation of mutual goals of democracy, development and social progress;
- 5) Prepare humanity for this world and the hereafter.

## **DEPARTMENTS AND PROGRAMS**

The Veronica Adeleke School of Social Sciences is made up of the following four departments, offering the programs listed below:

- 1) Department of Economics  
Programs offered: BSc. (Hons) Economics
- 2) Department of Mass Communication  
Programs offered: BSc. (Hons) Mass Communication
- 3) Department of Political Science and Public Administration  
Programs offered: BSc. (Hons) Political Science  
BSc. (Hons) Political Science (International Law and Diplomacy)  
B.Sc. (Hons) Public Administration
- 4) Department of Social Work  
Programs offered: Bachelor of Social Work (BSW, Hons); BSc. (Hons) Social Work

## DEPARTMENT OF ECONOMICS



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*Ovikuomagbe OYEDELE, PhD*  
*Head of Department*

## FACULTY AND STAFF

- |                                      |   |
|--------------------------------------|---|
| 1. Joseph Olusegun AJIBOLA, PhD      | Professor of Economics  |
| 2. Rowland Tochukwu OBIAKOR, PhD     | Associate Professor, Economics  |
| 3. Adegbemi Babatunde ONAKOYA, PhD   | Associate Professor, Business & Applied<br>Economics (Economics option) |
| 4. Andy Titus OKWU, PhD              | Associate Professor   |
| 5. Olusola Babatunde OLUWALAIYE, PhD | Senior Lecturer   |
| 6. Ovikuomagbe OYEDELE, PhD          | Senior Lecturer   |
| 7. Oladapo Gbenga AWOLAJA, PhD       | Lecturer 1, Economics   |
| 8. Kemisola Christianah, PhD         | Lecturer 1, Business & Applied Economics<br>(Economics option)          |

9. Esther Omotola Lawal, PhD	Lecturer 1, Business & Applied Economics
10. Bola Olatubosun AROYEWUN, MSc	Lecturer 11, Economics
11. Uduakobong EDY-EWOH, PhD	Lecturer 11, Business & Applied Economics (Economics option)
12. Gideon Gbenga OLANREWAJU, PhD	Lecturer 11, Economics
13. Babatunde Oloyede BINUYO, MSc	Lecturer 11, Economics
14. Olawumi Abeni OSUNDINA, PhD	Lecturer 11, Economics
15. Iyabo Mary OKEDINA, MSc	Assistant Lecturer, Economics
16. Chidinma Edith EBERE, MSc	Assistant Lecturer, Economics
17. Dasauki Caleb MUSA, MSc	Assistant Lecturer, Finance
18. Mfonobong ETOKAKPAN, MSc	Assistant Lecturer, Economics
19. Olubukola ADESUYI*, MSc	Assistant Lecturer, Economics
20. Ayobami A. ADELEYE, MSc	Assistant Lecturer, Business & Applied Economics (Economics option)
21. Olusola YUSUF*, BSc	Graduate Assistant
22. Modupeola Olusola OKUNLOLA, HND	Conf. Secretary 1

#### **ADJUNCT/VISITING**

1. Sherifdeen A. TELLA, PhD	Professor of Economics
2. Akinbolaji IWAYEMI, PhD	Professor of Economics
3. Biola Barakat PHILIP, PhD	Professor of Economics
4. Olalekan AWORINDE, PhD	Senior Lecturer, Economics

#### **PART-TIME**

1. Abiodun Oluwole FOLAWEWO, PhD	Professor of Economics
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\* On study leave

#### **DESCRIPTION**

The study of economics offers students insight into some of the most fundamental issues facing societies today: international trade and finance, unemployment and inflation, fiscal sustainability, economic development of poor countries, energy and environmental policy, agricultural policy, and government regulatory policies. Economic literacy is essential to a liberal arts education because it provides a framework for understanding the forces that influence the happenings in the global scene. Economics programme here in Babcock University provides students with excellent analytical and problem solving skills. Some of the features which contribute to our success are: excellent reputation for teaching and research; dynamic and friendly Department; and strong emphasis on marketable and transferable skills, favoured by employers. These include written, oral and visual communication skills, self confidence and self-reliance in assimilating and appraising new information, team work, initiative and quality leadership. Moreover, all our academic staff members are research active and incorporate their research findings, interests and experiences into their lectures, thus providing students with balanced overview of economic issues.

A degree in Economics is an outstanding preparation for a career in finance, business, policy analysis, international relations, academics and any other field that requires rigorous analytic

thinking. It also makes an excellent foundation for graduate study in economics, business, law, political science, and public administration.

### **VISION STATEMENT OF THE DEPARTMENT**

To be a top rated Economics Department committed to our stakeholders' mandates

### **MISSION STATEMENT OF THE DEPARTMENT**

Unique Economics department that produces theoretically well-grounded graduates with knowledge that is relevant to the society, and is in the forefront of policy making through: cutting-edge research; quality instruction to students to prepare them for successful careers; and holistic education for sustainable national development.

This Department which took off as a separate Department from the beginning of the 2016/2017 session – though economics as a B.Sc., programme has been in existence since 1999 - is borne out of the University's unquenchable desire to provide an unrivalled and high quality Christian academic, vocational and professional education in Economics with a view to meeting the qualitative manpower needs of both national and international industries, public and private sector establishments and not-for-profit organizations through research and functional applications.

### **PHILOSOPHY OF THE DEPARTMENT**

To train the Economics students to acquire knowledge, this will serve as tools to provide solutions to various social and economic problems in the society both nationally and internationally.

### **OBJECTIVES**

The Department offers courses leading to the award of Bachelor of Science Degree in Economics. The degree can only be awarded with honours. The objective of our B.Sc Degree Programme is to prepare students for careers in business organizations (including blue-chip and multinational organizations), Academic and Research. Students for this degree are prepared for efficient and effective service in diverse areas in both the Public and Private sectors.

### **DEPARTMENTAL REQUIREMENTS**

Students in this Department are required to complete 12 credits from the School of Management Sciences in the areas of Business Management and Accounting.

- **ADMISSION REQUIREMENTS**

Candidates must have obtained 5 credits at not more than 2 sittings in 5 subjects including English Language, Mathematics, Economics, and any other RELEVANT social science subject (Commerce, Government, Financial Accounting or Geography) at SSCE, GCE, NECO or their equivalents.

For the purpose of the minimum requirements in the programme, the courses are categorized into three

1. General Education Courses
2. Core Courses

### 3. Electives

Every student must take and pass each core (compulsory) course before he or she can be awarded a degree. General Education Courses are University courses outside the Department. Thus, students in the department must take such courses outside the department.

Elective courses will consist of a wide range of courses from which a student must select a given number of courses, which the student must pass before the award of a degree. Such would be additional and/or advanced courses that would not be required of all students, but from those specializing in such subject groups. Most of the electives however, would be outside the compulsory/required subject areas and could be from within or outside the Department and/or from within or outside the Faculty.

Cognate courses are to be taken from other Departments. For each course specified, the categories to which it belongs and weight (credits) attached are indicated. All courses are listed by the year in which they could be offered in the relevant programme. A credit in a course is defined as one contact hour of lecture/tutorial/seminar or three practical per week in a semester of 18 weeks.

#### • REQUIREMENTS FOR GRADUATION

A: A minimum of 130 credits including all compulsory and specified number of elective courses.

B: A minimum of 24 credits in courses outside the Department

A minimum of 152 credits (for 4 years) is required before a student could graduate from the programme.

#### SUB-DIVISION OF COURSES INTO LECTURE-TUTORIAL-PRACTICAL:

All students in the Social Sciences should take a minimum load of 16 credits per semester. It is important that tutorials be held for students in small groups. There must be at least one tutorial for two lecture hours. Thus, a course of one credit should comprise of 12 hours of lecture and 6 hours of tutorial or seminar.

#### CREDIT LOADS

Level	GEDS	Departmental Courses	Non-Departmental Courses	Total
100	21	18	6	44
200	11	24	12	47
300	7	39	0	46
400	7	36	0	43
Totals	46	117	18	181

**B.Sc. (Hons.) ECONOMICS**  
**100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 105	Use of Library and Study Skills	2	
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
	<b>CORE COURSES</b>		
ACCT 108	Basic Accounting	-	3
ECON 101, 102	Principles of Economics I, II	3	3
BSAD 101	Principles of Management I	3	-
ECON 131, 132	Introduction to Mathematics for Economics I, II	3	3
ECON 141, 142	Introduction to Statistics I, II	3	3
	<b>TOTAL (45 Credits)</b>	<b>22</b>	<b>23</b>

**\* NO OF CREDITS WILL NOT COUNT TOWARDS GRADUATION**

**B.Sc. (Hons.) ECONOMICS**  
**200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 200	Communication in French	-	2
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 204	Logic and Critical Thinking	-	2
GEDS 221	Introduction to Agriculture	2	-
GEDS 290	Spreadsheet and Digital Presentations	2	-
GEDS 260	Environmental and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 280	Leadership Skills	-	2
	<b>CORE COURSES</b>		
ACCT 201, 202	Financial Accounting I, II	3	3
ECON 225	Structure of Nigerian Economy	3	-
ECON 242	Monetary Economics	-	3
ECON 251	Labour Economics	3	-
ECON 253	Principles of Micro-Economics	3	-
ECON 254	Principles of Macro-Economics	-	3
ECON 272	Introduction to Financial Economics	-	3
ECON 261	Mathematics for Economists	3	-
ECON 274	Fundamentals of Political Economy	-	3
	<b>TOTAL (47 Credits)</b>	<b>24</b>	<b>23</b>



**B.Sc. (Hons.) ECONOMICS**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	2	
	<b>CORE COURSES</b>		
ECON 313	Intermediate Micro-Economics	3	-
ECON 314	Intermediate Macro-Economics	-	3
ECON 336	Public Finance	-	3
ECON 338	Economic Development	-	3
ECON 341	Operations Research	3	-
ECON 342	Introductory Econometrics	-	3
ECON 323, 324	History of Economic Thought I, II	3	3
ECON 351, 352	Applied Statistics I, II	3	3
ECON 361	Research Methodology	3	-
ECON 362	International Trade Theory	-	3
ECON 381	Managerial Economics	3	-
	<b>TOTAL (46 Credits)</b>	<b>23</b>	<b>23</b>

**B.Sc. (Hons.) ECONOMICS**  
**400 LEVEL**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurship Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
ECON 401	Advanced Micro-Economics	3	-
ECON 402	Advanced Macro-Economics	-	3
ECON 413, 414	Economic Planning I, II	3	3
ECON 421	Project Evaluation	3	-
ECON 423	Econometrics - Theory and Practice	3	-
ECON 442	Problems and Policies of Development	-	3
ECON 453	Taxation and Fiscal Policies	3	-
ECON 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
ECON 433	Comparative Economic Systemss	3	-
ECON 462	Labour Economics and Industrial Relations	-	3
ECON 460	Petroleum Economics	-	3
ECON 473	Financial Economics	3	-
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

*\* Student are to select one elective per semester.*

## **BACHELOR OF SCIENCE (B.Sc. Hons.) ECONOMICS COURSE DESCRIPTIONS**

### **ECON 101: PRINCIPLES OF ECONOMICS 1 3 Credits**

An introduction to the various issues in economics: the nature of economic science, the basic problem of scarcity and choice, the methodology of economic science, methods of resource allocation in an economy, major areas of specialization in economics, Historical development of economic ideas. Methods of Resource Allocation in an economy, major areas of specialization in economics, microeconomics versus macroeconomics, microeconomics demand, supply and price, theory of firm and introduction to welfare economics. Integrity and team spirit as biblical values for excellence in business.

### **ECON 102: PRINCIPLES OF ECONOMICS II 3 Credits**

Concepts and tools for economic analysis, introduction to public sector economics. The public sector in Nigeria: financing the public sector; sources, principles and features; introduction to macroeconomics: national income determination; the national economy and macroeconomic policy objectives and instruments, introduction to money and banking: Introduction to economic growth and development. Trade policies with reference to Nigeria, (Business cycle) the problem of business cycle. Servant leadership and the biblical principle of selflessness in solving macroeconomic problems.

### **ECON 131: INTRODUCTION TO MATHEMATICS FOR ECONOMICS I 3 Credits**

Mathematical Concepts in social sciences. Set theory and applications, Surds. Polynomials up to degree 3 and their factorization. Exponent, Indices and Logarithms. Equations and functions: Linear, quadratic, cubic, etc. nonlinear functions: revenue, cost and profit; indices and logarithm; exponential natural logarithm; Simultaneous equations. Trigonometry. Series and sequences. Inequalities. Matrices: Graph of linear equation; Algebraic solution of simultaneous linear equation; supply and demand analysis; Definition, types, operations with matrices, addition and subtraction of matrices; scalar multiplication; vectors multiplication; multiplication of matrices; identity and null matrices; matrices expression of system linear equation. Determinants and Inverse of a square matrix. Matrices and Simultaneous equations. Linear Programming: Graphical solution of linear programming problem; Applications of linear programming. The biblical example of God's accuracy as shown in creation and prophecy fulfillment will be emphasized.

### **ECON 132: INTRODUCTION TO MATHEMATICS FOR ECONOMICS II 3 Credits**

Introduction to Calculus – differentiation and integration. Rules of differentiation. Differentiation of various functions like linear, quadratic and cubic functions. Differentiations of trigonometric, Logarithmic, and exponential functions. Implicit and explicit functions. Economic application of differentiation: maximum and minimum Values. Rules of integration. Integration of various functions - Linear, quadratic, cubic, trigonometric, logarithmic and exponential functions, etc. Definite and indefinite integrals. Economic application of integration. Difference and differential equations and their applications. Combination and Permutation. Economic application of integration. Difference and differential equations and their applications.

Combination and Permutation. Excellence, integrity. The biblical example of God's accuracy as shown in creation and prophecy fulfillment will be emphasized.

**BSAD 101: PRINCIPLES OF MANAGEMENT I 3 Credits**

Examine the four elements of the management process: Planning, Organizing, Leading and Controlling. Identify principles to assist managers in adapting these elements to fit a variety of situations and enterprises. Accountability, responsibility and servant leadership as good managerial attributes.

**ACCT 108: BASIC ACCOUNTING 3 Credits**

History and Development of Accounting. The nature and scope of accounting, the role of accounting, users of financial statement; introducing statement of Accounting Standard 1 & 2 (S.A.S. 1 & 2), the accounting functions and its relationship with the information statement of organizations, accounting functions and its relationship with the information system of organizations, accounting procedure and systems, Basic documentation process, double entry book-keeping system, the trial balance, Accruals, Pre-payments and adjustments, Books of prime entry and recording in the ledger, classification of expenditure entry and recording in the ledger, classification of expenditure entry recording in the ledger, classification of expenditure between capital and revenue items, methods of recording accounting data; manual and mechanical, bank reconciliation statement, preparation of debtors and creditors statement. Accounting for fixed assets acquisition, depreciation, disposal and fixed assets schedule, extended trial balance and correction of errors using suspense account, extend trial balance and correction of errors using suspense account and journal, account of a sole trader. Any other topical issue related to accounting. Reserves and provisions, payroll accounting, preparation of final account, manufacturing, trading, profit and loss accounts, balance sheet for sole-proprietorship, partnership and limited liability companies, partnership agreement, preparation of final accounts. Preparation of income and expenditure accounts and balance sheet or statement of affairs of non-profit making organization. Preparation of final accounts from incomplete records, simple joint venture accounts and others. Excellence, integrity and responsibility as important accounting tools. The biblical principle of being a responsible and accountable steward first unto God and then man.

**ECON 141: INTRODUCTION TO STATISTICS I 3 Credits**

Definition, meaning and scope of statistics. Use of statistics in everyday life. Types/ branches of statistics; Levels of statistical measurement in social sciences. Steps in statistical enquiry; Types and techniques of data presentation. Sources of data (Primary and Secondary) and nature (qualitative and quantitative) of published statistical data in Nigeria, their uses and limitations, methods of collecting data - census and surveys: Direct observation, personal interview, use of questionnaire, reports/result of experiment, Extraction from an already existing result. Samples; population; Sampling, Sampling Error and Sampling Frame; Representation of statistical data: Tables, Graphs, Charts, Histogram and curves. If statistics can be used to show past and future trends, God's omniscience will be emphasized. Integrity and accountability in data handling and interpretation.

**ECON 142: INTRODUCTION TO STATISTICS II 3 Credits**

Population and Sample. Population parameter and sample statistic. Measures of Central tendency and dispersion for Population and sample. Mean, median, mode, Standard Deviation and other measures of dispersion such as: variance, standard deviation; Moments, Skewness, Kurtosis, Computation of skewness and Kurtosis in Eviews Software; Partition values, Probability Distribution functions and their comparisons: Bernoulli, Poisson, Exponential, Uniform and Normal Distributions. Simple Test Hypothesis. Simple Correlation and Regression Analysis. Index number. Application of accountability, excellence and responsibility in statistical analysis. Biblical principles of trustworthiness and being truthful.

**ECON 225:        STRUCTURE OF THE NIGERIAN ECONOMY    3 Credits**

Analysis of development in the pre-colonial and post colonial periods with regards to development of economic and social organization, Role of agriculture, industry, monetization and banking and international trade in Nigeria economic development. Growth of income employment, wages and prices. Public development institutions. International Income and Expenditure monetary and Fiscal Policies Monetary Institutions. Trade, Transport system. Contributions of sectors of the Nigeria economy to national output Relationship between these sectors. Role of national institutions. Economic development and social change. God's place in a country's development – role of wisdom, service to humanity and servant leadership for development.

**ECON 242: MONETARY ECONOMICS 3 Credits**

Money and Monetary Theory. Definitions, origin, types and functions of money. Barter system, Evolution of money, theoretical and empirical definitions of money. Role of money in a capitalist and socialist economy. Financial institutions: Banks and non banks; Functions of commercial banks; functions of Central bank; Credit creation by commercial banks; insurance company ; Theories of demand for and Supply of money. Theories of interest rate. Money and Economics. Recent development in monetary thought. Monetary Policy: Objectives, formulation lags, Expansionary and contractionary policies, monetary feedback, problems of monetary policy in less developed countries; Monetary transmission mechanism in Nigeria; Effectiveness of monetary policy.

**ECON 251:      LABOUR ECONOMICS                      3 Credits**

Nature of labour problems in developing countries. Labour force; definition and concept. Determination of sizes and composition of labour force, concepts of unemployment, industrial and occupational distribution of labour force. The informal sector and the modern sector. Labour Market Theories. Economics of wage determination. Features of the Nigerian Labour Market. Supply for labour, the hours of work decision, labour supply curve. Demand for Labour, labour market equilibrium, Human Capital: education in the labour market, education and earning, do workers maximize lifetime earning?, Post school capital investment, on-the job training. Labour mobility: geographic migration as a human capital investment, immigration. Labour market discrimination: race and gender in the labour market, employer discrimination, employee discrimination, customer discrimination, experimental evidence on discrimination, measuring discrimination, Policy application: determinants of the female-male wage ratio. Man power Development. Accountability, responsibility and transparency will be emphasized.

**ECON 253: PRINCIPLES OF MICRO-ECONOMICS 3 Credits**

The Economic Problem, The nature of economic science, The methodology of Economics, Elementary Principles of Micro economics; Demand and Supply theory. Elasticity; types, numerical value of elasticity coefficients and interpretation, problem of scarcity and allocation of resources in product and factor markets with application to Nigeria and other economies, application of scarcity to microeconomic problems. Consumer Behavior and Utility Maximization, Production theory; cost theory and cost curves. Market Structure: perfect competition, monopoly, duopoly, oligopoly and monopolistic competition. Output and price determination under perfect and imperfect markets. Pricing of production factors. Pricing of production factors. Integrity and teamspirit as biblical values for excellence in business.

### **ECON 254: PRINCIPLES OF MACRO-ECONOMICS                      3 Credits**

Meaning and scope of macroeconomics. macroeconomic topics. Macroeconomic variables or indicators of an economy. Classical and Keynesian Schools of thought in macroeconomics. multipliers. Stabilization of the domestic economy – monetary and fiscal policies. Inflation. Inflation and Unemployment: the Philip’s Curve.

Elementary principles of macroeconomics: macroeconomic variables or indicators of an economy; stock and flow concepts; tools of macroeconomic analysis – models, variables and parameters; measurement of economic activities – national income accounting; GDP, GNP, NNP, national income models and their components; marginal propensities and the multipliers, stabilization of the domestic economy – monetary and fiscal policies. Inflation and unemployment: the Philips curve. The main school of thought and economic systems. Servant leadership and the biblical principle of selflessness in solving macroeconomic problems.

### **ACCT 201, 202: FINANCIAL ACCOUNTING I, II                      3 + 3 Credits**

Company accounts, formation, issue and redemption of shares and debentures, final account for internal use & publication including cash flow statement. Five year Financial Summary, value added statement etc. including cash flow/fund flow statement etc. including statutory requirement of company accounts in respect to each area; miscellaneous account; joint venture, royalties, consignment, farmers, Goods on Sales or return, departmental accounts, branch accounts (Home/Local branches), solicitors accounts voyage, underwriting cooperative accounts, any other topical issue. Excellence, integrity and responsibility as important accounting tools. The biblical principle of being a responsible and accountable steward first unto God and then man.

### **ECON 261: MATHEMATICS FOR ECONOMISTS                      3 Credits**

Derivatives and marginal values. Higher order derivatives. Derivatives/Marginal Values and underlying/total functions. Partial and total derivatives. Application of partial derivatives to optimization problems in economics. Matrices and simultaneous linear equations. Introduction to linear programming. Input-output analysis, etc. Input-output analysis, etc. Excellence, integrity and accountability as important tools in mathematical analysis. The biblical example of God’s accuracy as shown in creation and prophecy fulfillment will be emphasized.

### **ECON 272: INTRODUCTION TO FINANCIAL ECONOMICS                      3 Credits**

Introduction and Concept of Financial Economics, brief on Nigerian Economy (Development Performance), Evolution and an overview of financial industry and the Nigeria Financial System. Nature, concepts and functions of Financial Intermediation, Financial Intermediaries, Financial

Instruments and Types, Characteristics of Financial Instruments. The Role of Banks and Insurance in Financial Intermediation. A review of the investment industry and how investors and economies benefit from the existence of the investment industry, types and functions of participants of the investment industry.

Concept of interest; Basic knowledge of simple and compound interest; present value, future value, and discount rate; Describe how time and discount rate affect present and future values; the relevance of net present value in valuing financial investments; applications of time value of money; uses of mean, median, and mode, which are measures of frequency or central tendency and its application in investment sector; uses of range, percentile, standard deviation, and variance, which are measures of dispersion; interpretation of the characteristics of a normal distribution. Excellence, integrity and accountability as important tools in financial analysis.

#### **ECON 274: FUNDAMENTALS OF POLITICAL ECONOMY 3 Credits**

What is political economy, political theory, understanding the subject matter of political economy, perspective on political economy, Basic concepts in political economy, Primitive Accumulation of capital, Historical materialism, Historical Capitalism – Marxist Theory of Capital Accumulation, stages of Capitalist Development and the political economy of Capitalism; Introduction to Political Economics – Economics without politics and politics without economics, the study of economics and study of politics, Political Economy framework – Interest Groups and Collective Action; Introduction to political Psychology – Pre-modern Political Philosophy, Modern Political Thought, Ethics, Politics, and Public Policy, Nationalism and ethnic conflict, Power and Politics; Politics and Economics – The History of Economic Thought- The debate (Adam Smith and Karl Marx), The great Debate, the continuing debate; Classification of social systems & the theory of social classes – Social Choice and politics, Individual choice, Group Choice, Collective Action, Institutions voting behavior, the incentive structures of interest groups, and the role of institutions. Development across various economic systems should be driven by cooperation and servant leadership.

#### **ECON 313: INTERMEDIATE MICRO-ECONOMICS 3 Credits**

Scope and methods of microeconomics: Economic Model Building; partial and general equilibrium approach, theory of consumer behavior, indifference curve approach; Topics in consumer demand: Market demand; Theory of Costs; Advanced price and output determination under perfect competition, monopoly (price discrimination, monopolistic competition) and oligopoly (collusive and non-collusive), market structure and pricing; pricing and output under perfect competition; Pricing and Output under monopoly; Pricing and Output under oligopoly; Theory of Distribution; Input Pricing and Employment under imperfect competition; General Equilibrium of exchange and Economic Welfare. Theory of Games; Mathematical treatment of Microeconomic theory with incorporation of linear programming. General equilibrium of exchange and economic welfare. Integrity and team spirit play an important role for excellence in business.

#### **ECON 314: INTERMEDIATE MACRO-ECONOMICS 3 Credits**

Review of basic concepts and functions; equilibrium static and dynamic, endogenous and exogenous variables, measurement of economic activity – GDP and GNP concepts and problems; basic model of income determination. Extension from simple closed economy to a four sector economy. Elementary knowledge of money and goods markets and derivation of IS-

LM diagrams; Balance of Trade and Balance of Payments. Keynesian and Monetarist systems compared; Theory of employment (Basic assumptions and criticisms of the classical theory, Say's law, Pigou effect and Money illusion, Full employment). Keynesian theory of income, output and employment (Principles of effective demand, aggregate supply curve, aggregate demand curve, savings-investment controversy, under-employment equilibrium). Supply side economics and the Laffer curve. Keynesian and monetarist theories of employment compared (The quantity theory of money, debate on monetary and fiscal policy effectiveness. Expansionary and contractionary fiscal and monetary policy) Supply side economics and the Laffer curve. Keynesian and monetarist theories of employment compared (The quantity theory of money, debate on monetary and fiscal policy effectiveness. Expansionary and contractionary fiscal and monetary policy). Monetary and fiscal policy effectiveness – IS-LM analytical apparatus and crowding out effect. Problems of unemployment and inflation (Okun's law, Philips curve, the natural rate of unemployment and sacrifice ratio. Consumption function (factors influencing consumption, propensity to consume). Investment and Marginal Efficiency of capital. The Investment Function and Determinants; The Marginal Efficiency of Capital. The biblical example of God's accuracy as shown in creation and prophecy fulfillment will be emphasized.

### **ECON 323: HISTORY OF ECONOMIC THOUGHT I**

**3 Credits**

Comparative survey and assessment in economic thought. Ideal of the early Christian fathers. Islamic ideas on economic activity. Classical economics, neo-classical school of thought, positive and welfare school of economic thought; institutional economics, Keynesian school of economic thought, Evolution and contemporary state of development in economics. Marginalists and modern schools of economic thought. African economic ideas. Future prospects. The biblical example of God's accuracy as shown in creation and prophecy fulfillment will be emphasized.

### **ECON 324: HISTORY OF ECONOMIC THOUGHT II**

**3 Credits**

Calculation debate: Lange vs Hayek; Scheempeter; revival of the debate in the 1980s and 1990s. Strategic thinking; why Cournot was a neglected figure? Nash, rewriting of the Neo classical economics. Neoliberalism: what are we talking about? New – institutionalism: would Veblen approve? Early discontent: Veblen. The 1929 crisis and its "solution" Keynes. Experimental economics; how rational individuals are? Becker: everything to be framed as cost and benefit analysis. Development of economics theories – theory of rent, theory of wage, theory of interest, theory of profit, theory of trade cycle. Contributions of nobal economist – Joseph Alois Scheempeter, Sir John Hicks, Milton Friedman etc. Learning from the past in Nigeria: what made the first republic of Nigeria more successful (if at all) in economic growth and development compared to what we have in recent times. All economic principles and laws are traceable to biblical ideas – the teaching of Jesus Christ and his followers.

### **ECON 336: PUBLIC FINANCE**

**3 Credits**

Meaning and scope of public finance; Instrument of public finance: concepts and role of budget; Public revenue: Revenue receipts and capital receipts. Federal Finance: The rationale and principles. Development of Nigerian federal finance, main issue in federal finance structure in Nigeria, structure of public revenue and expenditure in Nigeria. Public debt: Meaning of public and private debt and its limitations, problems of public debts in Nigeria. Public budget: Introduction, types. The process of budgeting (federal and state) in Nigeria. Taxation and its



cannons; Division of tax burden. Ability to pay theory. Incidence of taxes and the effects of a tax. Classification and choice of taxes: Direct and indirect, VAT; Effect of taxation on production and growth. Public Expenditure: Meaning and nature of public expenditure, Wagner's law of Increasing of state activities; Effects of public expenditure and economic stabilization. Public sector financing and good governance. Accountability, responsibility and transparency in public sector financing will be emphasized.

### **ECON 338: ECONOMIC DEVELOPMENT**

**3 Credits**

General nature of development problems - The nature and patterns of development problems  
Development issues in Africa; Characteristics of underdeveloped countries - Concepts of developed, developing and underdeveloped countries, Characteristics of underdeveloped countries & Patterns and extent of underdevelopment in Africa; Causes of underdevelopment (Imperialism/ Colonialism) - Meaning and Evolution of Imperialism; Development problems and development gap - Income distribution and the Lorenz curve, inequality (measures and extent) & within and between inequality issues; Causes of underdevelopment (Population) - Patterns of population in the underdeveloped countries, issues in population and its link with underdevelopment & gender and underdevelopment; Models of development - The dependency theory, balanced and unbalanced development theory & new development theory; The role of Human Capital in development - Concepts of health and education & linking health and education to development; The role of technology in development - Technologies in agriculture, manufacturing and services sectors & the extent of technologies in these sectors; Contemporary issues in economic development - Trade liberalization & foreign institutions. God's place in a country's development – role of wisdom, service to humanity and servant leadership for development.

### **ECON 341: OPERATIONS RESEARCH**

**3 Credits**

Definition and Historical development. Characteristic features of operations research. Stages in operations research study. Limitations of an operational research study. Necessity of operations research in industry; scope of Operations research; Role of computers in operations Research; Problems and Limitations in Operations Research. Modeling in operations research. Decision Analysis. Linear programming: formulation of linear programming problems, graphical solution to linear programming problems; theory of simplex method; Games Theory, Queuing Theory. Assignment Problems: Definition of the assignment model. Transportation problems introduction and definition of transportation model, variants in transportation problems. Their applications to optimization situations or competitive environment. Accuracy, integrity and transparency as important tools in numerical analysis.

### **ECON 342: INTRODUCTORY ECONOMETRICS**

**3 Credits**

Definition and Scope of Econometrics. Econometrics and Mathematical Economics. Econometric Research Methodology. Stages in an econometric Research. Properties of an econometric model. Correlation and regression Analysis. Measure of linear correlation. Numerical values of the correlation coefficient. Simple correlation coefficient. Pearson's correlation coefficient. Spearman's rank correlation coefficient. Partial correlation coefficient. Test of significance in correlation. Regression Analysis. Definition of regression. Simple linear regression model. Relationship between price elasticity of supply and its coefficient. The random term and its distribution. The assumptions of the random term. Distribution of the dependent variable Y. Least Square criterion and Normal equation of OLS. Accuracy and transparency as

important tools in econometrics. 2 Timothy 2:15 says ‘study to show thyself approved unto God, a workman that needeth not to be ashamed, rightly dividing the word of truth’. This should inform the use of thorough empirical analysis for which econometric analysis is needed.

**ECON 351: APPLIED STATISTICS I 3 Credits**

Major sources of data (primary and secondary); questionnaires and their design; sampling techniques; Data collection: types, methods, procedures, measurement and issues; data processing and analysis; Tests of hypothesis; time series analysis, index numbers; Introduction to SPSS & EVIEWS in statistical procedures. Coding. 2 Timothy 2:15 says ‘study to show thyself approved unto God, a workman that needeth not to be ashamed, rightly dividing the word of truth’. This encourages the need for thorough study just as statistical analysis promotes. This should inform the use of empirical analysis in order to make some conclusions thorough. 2 Timothy 2:15 says ‘study to show thyself approved unto God, a workman that needeth not to be ashamed, rightly dividing the word of truth’. The text fosters the necessity for thorough and logical study and application just as statistical analysis promotes. Its support for the use of empirical analysis as the anchorage for some inferences will be discussed.

**ECON 352:                    APPLIED STATISTICS II                    3 Credits**

Rules of probability and distributions; probability density function (PDF) and expected values; decision-making, statistical quality control; estimation and hypothesis testing for two population parameters, introduction to nonparametric statistics; point and interval estimation; statistical applications in quality and productivity management. Introduction to SPSS in statistical procedures. 2 Timothy 2:15 says ‘study to show thyself approved unto God, a workman that needeth not to be ashamed, rightly dividing the word of truth’. The text fosters the necessity for thorough and logical study and application just as statistical analysis promotes. Its support for the use of empirical analysis as the anchorage for some inferences will be discussed.

**ECON 361: RESEARCH METHODOLOGY 3 Credits**

Definition of research. The role of research in development. The uses of different statistical procedures including survey methods. Correlation and regression analyses. Concept and use of mathematical programming. Definition and scope of economic research. Stages of economic research. Simple linear economic model and ordinary least square estimator. Multicollinearity. Autocorrelation homoscedasticity and heteroscedasticity and simultaneous equation models. Two-stage least-square identification problem. Integrity, responsibility and transparency in research. The biblical principles of diligence and thoroughness in research will be emphasized as shown in Isaiah 28:10 – “for precepts must be upon precepts, line upon line, here a little and there a little”. Integrity, responsibility and transparency in research.

**ECON 362: INTERNATIONAL TRADE THEORY 3 Credits**

Subject matter of International trade. Domestic versus International trade - different views. Theories of International trade: Absolute Cost Advantage, Comparative cost Advantage and Heckscher-Ohlin Theory. Terms of Trade, Gains from trade. Heckscher-Ohlin two factor economy: prices and production, choosing the mix of input, factor prices and goods prices, effects of international trade between two factor economies.. Free trade versus protection. Commercial policy. External economies of scale and the international location of production, Firms in the global economy: export decisions, outsourcing and multinational enterprises: theory

of imperfect competition (monopoly and nonpolistic competition, a brief review) Customs Union. Benefits of International trade. Economic integration. Balance of Payments. Bililical encouragement of hardwork (Ecclesiastes 4:5). Service to humanity and accountability in international trade dealings.

**ECON 381:                   MANAGERIAL ECONOMICS                   3 Credits**

Fundamentals of Managerial Economics - Nature and Scope; Goals and constraints, The nature and importance of profits, Understanding incentives, Understanding markets, Risk analysis concepts and uncertainty time and value of money, Marginal Analysis, Basic Calculus, The incremental concepts in Economic Analysis; Demand and Supply- Demand, the market demand curve, the demand function, determinants of demand, Consumer surplus, Supply, the market supply, the supply function, Producer surplus & market equilibrium, Price ceilings and price floors, Comparative statics, the elasticity concept, own price elasticity of demand, Price elasticity, total revenue and marginal revenue, Factors affecting Price Elasticity, Other Elasticities, Elasticities for Linear, Non-Linear and Log-linear demand functions, Forecasting; Costs of Production and the Organization of the firm - Production analysis; production function, total product, marginal product, average product, Profit-Maximizing input usage, Isoquants and Isocosts, Cost Minimization, Cost Analysis, Total cost, Variable cost, fixed cost and optimal input substitution, The cost function, cubic cost function & cost relations, Long-run costs and economies of scale, Multiple cost functions and economies of scale, Multiple cost functions and economies of scope, Methods of procuring inputs, Managerial compensation and the principal-agent problem; Market Structure: Pricing and output decision - The nature of Industry, Perfect competition, characteristics & Profit outlook, Effect of New entrants, Monopoly, Source of monopoly power, maximizing monopoly profits, Monopolistic Competition, Profit maximization, long run equilibrium, Basic Oligopoly models, conditions for oligopoly, Role of strategic interdependence, Profit Maximization in the three Oligopoly Settings (Cournot Model, Stackelberg Model & Bertrand Model); Game theory and Pricing Strategies - Simultaneous move, one shot games, Basic Pricing Strategies, Strategies that yield Even Greater Profits, Pricing Strategies for special cost and demand structures, Pricing strategies in Markets with intense Price Competition; The Economics of Information, The Role of Government in the Market place and Regression Analysis - Asymmetric Information, Auctions, The Role of Government in the Market place, Regression Analysis-Economic Relationship. Accountability, responsibility and servant leadership as good managerial attributes.

**ECON 401:                   ADVANCED MICRO-ECONOMICS                   3 Credits**

Statics and Comparative statics. Utility function and indifference curves. Constrained utility maximization. Applications of consumer theory – rationing work and leisure etc. cost and production functions, optimization in theory of the firm, duopoly, oligopoly and bilateral monopoly. Linear programming analysis of the firm, introductory general equilibrium theory of production – comparative costs, transformation and contract curves, gains from exchange. Theory of distribution – wages, rent profit and interest. Social welfare function and pareto optimum. Theories of determination of wages, rent, interest and profit Externalities. Linking Pareto efficiency to Christ’s teaching of ‘love your neighbor as yourself’ and practicing service to humanity in resource allocation.

**ECON 402:                   ADVANCED MACRO ECONOMICS                   3 Credits**

Review of basic national income models. Detailed themes of consumption and investment. The acceleration principles, classical – Keynesian models of employment, output and prices. Introduction to capital theories of economic growth. Harrod Domar, Solow and Neoclassical growth models, income distribution stabilization policies and goals of globalization including lags in stabilization policies. Theories of money, price and interest. Macroeconomic problems, objectives and policies in Nigeria. The course will emphasize the value of servant leadership and the biblical principle of selflessness in solving macroeconomic problems.

### **ECON 413: ECONOMIC PLANNING I**

**3 Credits**

Economic planning:- Meaning, Terminologies and Contemporary Issues .Meaning and Definition of Economic Planning .Objectives of economic planning .Rationale for planning .Need and Challenges of Economic Planning .Methodology of Economic Planning .Types of Economic Planning:-Planning by Direction and Inducement, Financial and Physical Planning ,Perspective and Annual Planning ,Indicative and Imperative Planning, Democratic and Totalitarian Planning, Rolling and Fixed Plans ,Centralized and Decentralized Planning, Comparative planning systems ,Planning under Capitalism, Socialism ,Planning in a Mixed Economy. Theories and Models of Economic Planning , What are Economic Planning Models, Types of Planning models , Classical Theories of Economic Development Planning , Relevance of development models to economic planning .Planning Experiences in other Countries of the World. Features and types of planning in developing nations. The main features of economic planning in developing countries. Planning experience of selected developed countries. Comparisons of economic plan of developing and developed nations. Medium Term Expenditure Framework Planning models. **Biblical principles of economic planning. Integrating integrity into the planning process**

### **ECON 414: ECONOMIC PLANNING II**

**3 Credits**

Meaning and concept of economic development and growth. Measurement of economic development. Human Development Index. Concept and Approaches of Economic Growth and Development. Economic growth and Economic development .Sustainable development. The concept of under-development. The concept of national planning in Nigeria; Planning and Development experience in Nigeria and developing countries; Pre- independence to SAP era ; National economic plans during and after SAP era ; Visions and policy statements of economic plans in Nigeria. Planning techniques:- Social Accounting Framework ; Input – Output analysis ; Capital-Output; Linear programming ; Network analysis in planning ;Resources projection and constituency test ; Programme and planning balance. **Biblical principles of economic planning. Integrating integrity into the planning process**

### **ECON 421: PROJECT EVALUATION**

**3 Credits**

Definition and classification of a project. Meaning of project evaluation. Analysis of the technical aspects of a project: technical requirement evaluation and technical feasibility evaluation. Determination of optimum location. Transportation cost and choice of location – location near source of raw material, location near market, and location at an intermediate point. Production/Processing Cost and Location. Determination of Optimum plant size: Unconstrained and Constrained Optimum size. Criteria for Project Choice / Financial Profitability: The conventional or Traditional Criteria. The Discounted Cash Flow (DCF) Criteria. Manpower

planning. Sensitivity analysis. Breakeven analysis. Shadow Prices. Accountability, integrity and excellence in project evaluation should be emphasized.

### **ECON 423: ECONOMETRICS: THEORY AND PRACTICE 3 Credits**

Causes of deviations from regression line – sources of stochastic or random variable. Assumptions about the stochastic variable. Distribution of the dependent variable. Elasticity of supply and estimates of parameters of a simple linear regression model. Multiple regression analysis: three-variable linear regression model – functional relationship, stochastic model, a priori expectations and assumptions. Normal equations and model parameters. Estimation of three-variable regression model: Ordinary Least Squares (OLS) and matrices techniques. Evaluation and interpretation of estimated model: theoretical plausibility, explanatory power or goodness of fit, statistical significance and econometric reliability. Analysis of variance. General multiple regression model: estimation, evaluation and interpretation. Computer software applications: E-Views, Gretl, SPSS, etc. Accuracy and transparency as important tools in econometrics. 2 Timothy 2:15 says ‘study to show thyself approved unto God, a workman that needeth not to be ashamed, rightly dividing the word of truth’. This should inform the use of thorough empirical analysis for which econometric analysis is needed.

### **ECON 433: COMPARATIVE ECONOMIC SYSTEMS 3 Credits**

Meaning of economic system; Evolution of economic system; Criteria for classifying economies; Primitive society – household and feudal; Capitalist economic system – features, theoretical efficiency of market capitalism, limits to the efficiency of laissez-fair market capitalism, Merits and demerits of capitalism; Socialism – development of socialist ideology, Utopian socialism, the Marx world view, features, merits and demerits of socialism; Mixed economy – feature of mixed economy, merits and demerits; Criteria for evaluating economies; Developed and developing economies, features of developing economy; Development policy framework in Nigeria and the NEEDS document. Accountability, integrity and excellence in development should be emphasized.

### **ECON 442: PROBLEMS AND POLICIES OF DEVELOPMENT 3 Credits**

Principles and concept of problems and policies of development - Problems and policies of domestic poverty, inequality and development, Brief critical review of development theories; The industrialization strategy approach - Requirements for optimal industrial development, Agricultural development problems and policies, Construction sector's role and development policies; Regional direction, social dimensions, social development policies - Population growth and economic development; causes, consequences and controversies, Urbanization and Rural-Urban Migration, Human Capital, The environment and development, International Trade theory, Development strategy and Exchange Rate Policies. Balance of payments, developing-country debt, and the macroeconomic stabilization controversy, The balance of Payment Account; Financing and reducing payments deficits; the debt crisis of the 1980's; Attempts at Alleviation: Macroeconomic instability, IMF Stabilization Policies, and their Critics; Foreign finance, investment and aid: Controversies and Opportunities - The international flow of financial resources; private foreign direct investment and the multinational corporation; portfolio investment: Boon or Bane for LDC's; The role and growth of remittances; Foreign Aid: The development Assistance Debate; Finance and fiscal Policy for development - The role of the

financial system; the road to macroeconomic stability; microfinance institutions; reforming financial systems; fiscal policy for development; Public Administration: The scarcest resource; State-Owned Enterprises. Accountability, integrity and excellence in development should be emphasized.

**ECON 453: TAXATION AND FISCAL POLICIES 3 Credits**

Nigerian system of income Tax Administration; structure and procedures, returns, assessments, appeal, postponement, collection; with reference to all necessary legislation. Distinction between the taxation of income and taxation of capital personal income tax the law and practice of income tax relating to individuals, exemptions, settlement, trusts and estates. Biblical encouragement of tax payment – Give unto Caesar what is Caesar's and God what is God's. God's disapproval of corruption and exploitation in taxation (Mathew the tax collector).

**ECON 460: PETROLEUM ECONOMICS 3 Credits**

The early and modern structure of World oil market; the evolution of OPEC control oil as the 'swing fuel' in the energy industry market; detailed treatment of the other conventional sources of energy ; coal, hydro, gas, forests. Non-conventional sources of energy; solar, nuclear, biogas, geothermal waves, tar sands etc. Future energy demand and supply in Nigeria and in the world. Oil price volatility and oil shocks. Servant leadership will be emphasized as key in the efficient allocation of a scarce and exhaustible resource like crude oil for the good of all. Recognizing the importance of God's creation (crude oil, wind) for human comfort and development.

**ECON 462: LABOUR ECONOMICS AND INDUSTRIAL RELATIONS 3 Credits**

The concept of industrial relations, Trade union Characteristics. Industrial Relations Law in Nigeria, Types of Unions; Trade Union federation; determinants of union membership, monopoly unions. Central Labour Organization and International Affiliations; Union Solidarity and check – off systems. Strike. Union wage effects, nonwage effects of unions. Collective bargaining; Industrial Disputes; Disputes settlement; Joint Consultation; Consultation; The State and Industrial Relations, the comparative industrial relations. Incentive Pay: piece rates and time rates, tournaments, the compensation for executives with policy applications, work incentives and delayed compensation.

Students will learn to embrace and value the dignity in labour for this reason, whatever their hands find, that is worth doing, is worth doing well.

**ECON 473: FINANCIAL ECONOMICS 3 Credits**

The Economists' approach to decision making under uncertainty, risk and return. Decision-making process and individuals investment decisions, an overview of quantitative methods in finance, risk aversion in the context of utility theory, elementary probability theory, time value of money and portfolio theory.

Portfolio theory and Asset pricing, in particular, general equilibrium theory and the Capital Asset Pricing model, Arbitrage Pricing Theory and Consumption Based Asset Pricing, Equity valuation, Bond pricing and the Term Structure of Interest Rates and Derivatives - Pricing and Use. Efficient capital markets and asset pricing with asymmetric information, Basics of financial & capital market trading, Analysis of Inflation and Exchange Rate System, Derivatives

Financial Sector Development and Growth (Structuralist hypothesis and the financial repression hypothesis), financial Development and the Finance-growth Nexus. Financial Analysis, Financial Statements Analysis, Banks Balance Sheet and Liquidity Management. Tools for Monetary Policy and Fundamental Theories of Money – (Classical, Monetarist & Keynesian) Accountability, integrity and excellence in financial analysis. Faithfulness and trustworthiness in financial matters.

**ECON 490: RESEARCH PROJECT 6 Credits**

Each student is required to conduct an approved economics related topic culminating in the submission of research project, under the guidance of a supervisor. The project will be defended by each student in the presence of a staff committee, to earn the final grade.

**GEDS 420: BIBLICAL PRINCIPLES AND PROFESSIONAL LIFE 3 Credits**

This course addresses the biblical underpinning of economics; which deals with the study of how societies engage in the production of valuable commodities by making use of scarce resources and the distribution of the commodities among different people. God endowed every nation with wealth and also gives power to make wealth. The students will be exposed to the Christian world view of economics which is crucial for the proper understanding and application of economic principles in order to meet needs of the societies. Students will be made to understand that all men are accountable to God in all their activities, because God freely created all things and so has the right and power to rule all things and that He is the Ultimate Owner of all things. Also, biblical principles should form the basis by which economic relations should be governed.

## DEPARTMENT OF MASS COMMUNICATION



**Helen Odunola ADEKOYA, Ph.D**  
*Head of Department*

### ACADEMIC STAFF

Kolade AJILORE,  
MSc, M.I.L.D, PhD.

- Professor of Mass Communication  
*Advertising, Public Relations and Brand  
Management*

Helen Odunola ADEKOYA, PhD

- Associate Professor of Mass Communication  
*Development Communication and Advertising*

Sam OKERE, M.A. Ph.D

- Associate Professor of Mass Communication  
*Print Communication & Publishing Studies*

Olusegun OJOMO, MSc., Ph.D.

- Associate Professor of Mass Communication  
*Broadcasting, Digital Media, Communication  
Technology*

Clementina ANATSUI, MSc

- Senior Lecturer, Mass Communication  
*Public Relations*



Babafemi AKINTAYO, MCA, PhD	- Senior Lecturer, Mass Communication <i>Broadcast Communication, Media Management</i>
Oguchi AJAEGBU, M.A, Ph.D	- Senior Lecturer, Mass Communication <i>Broadcast Communication.</i>
Omolayo JEGEDE, Ph.D	- Lecturer I, Mass Communication <i>Broadcast Communication.</i>
Patricia ERNEST-ONUORI, M.A, Ph.D	- Lecturer I, Mass Communication <i>Broadcast Communication.</i>
Margaret SOLO-ANAETO, M.Sc.	- Lecturer I, Mass Communication
Ifeoluwa Olabisi ATAKITI, M.Sc.	- Lecturer II, Mass Communication <i>Broadcast Communication.</i>
Oluwafisayo O. OGUNWEMIMO, M.Sc.	- Lecturer II, Mass Communication Public Relations and Advertising.
Mofoluke AKOJA, PhD	- Lecturer II, Mass Communication

#### **ADJUNCT STAFF**

Joshua SULEIMAN, M.Sc - Director, Marketing and Communication, BU  
Henry IGWARE, M.A. - Development and Strategy Department, BU  
Kehinde ROSANWO, M.Sc - Marketing and Communication Dept. (Webpage Design), BU.

#### **PROGRAMME PHILOSOPHY**

Communication is vital to national development. The Mass Communication programme aims to produce professionals who would employ practical communication and media skills for personal, corporate and national development. In practice, our graduates would make a difference by upholding high ethical and moral standards that would be model for present and future communication practitioners.

Mass Communication in Babcock University is a programme that allows each student adequate exposure to writing and print journalism skills. In addition, they are given the opportunity for in-depth orientation in elective options in Broadcast, Advertising and Public Relations.

#### **VISION STATEMENT**

To train ethically minded communication scholars and practitioners.

#### **MISSION STATEMENT**

Our mission is to train mass communication professionals who are mindful of their ethical responsibilities and the developmental challenges of developing countries, and to produce

professionals who are able to creatively harness contemporary information technology devices to facilitate national and international development.

### **ADMISSION REQUIREMENTS**

Students admitted to the Department of Mass Communication for the Bachelors of Science (B.Sc Hons) degree program in Mass Communication must have satisfied the Babcock University admission requirements. In addition, they must have:

(i). Five Senior Secondary School Level credits including English Language, Literature in English and Mathematics (for the four- year program) or its equivalent; **OR**

(ii.) Three “A” Level GCE passes including one in Literature, SSCE Level credit pass in English Language and Mathematics (for the three-year program).

(iii.) Such student in (i) above should have passed the Babcock University screening exercise Examination and JAMB in four subject areas including English Language, Literature in English, Mathematics any one of Christian Religious Knowledge, History and Government.

### **COURSE REQUIREMENT**

The normal period for an honours degree shall be eight (8) semesters. It has duration of four years for students admitted with the Ordinary Level Certificate, and three years for those with Advance Level Certificates.

### **REQUIREMENTS FOR GRADUATION**

To graduate, a student should have completed 164 credits. The breakdown of the credit requirements by level are as follows:

#### **CREDIT LOAD FOR B.Sc MASS COMMUNICATION**

<b>LEVEL</b>	<b>GEDS COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
100	15	28	43
200	17	30	47
300	7	38	45
400	7	39	46
<b>Sub-Total</b>	<b>46</b>	<b>135</b>	<b>181</b>

**BACHELOR OF SCIENCE (Hons), MASS COMMUNICATION  
100 LEVEL**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christ Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
GEDS 112	Health Principles	-	2
GEDS 134	Nigerian People in a Global Culture	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
	<b>CORE COURSES</b>		
MCOM 101	Introduction to Mass Communication	3	-
MCOM 113	History of Nigerian Mass Media	3	-
MCOM 116	Introduction to Broadcasting	-	3
MCOM 117	African Communication Systems	3	-
MCOM 118	Introduction to Photojournalism	-	3
MCOM 119	Basics of Journalistic Writing	3	-
MCOM 120	Fundamentals of Marketing	-	3
BSAD 111	Business Mathematics I	2	-
BSAD 112	Business Mathematics II	-	2
IRMA 102	Introduction to Information Science	-	3
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

**BACHELOR OF SCIENCE (Hons), MASS COMMUNICATION)**  
**200 LEVEL**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faiths	3	-
GEDS 221	Introduction to Agriculture Science	2	-
GEDS 290	Spreadsheet and Digital Presentations	2	-
GEDS 200	Communication in French	-	2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 260	Environment and Sustainable Development	-	2
GEDS 270	Peace and Conflict Resolution	-	2
GEDS 280	Leadership Skills	-	2
	<b>CORE COURSES</b>		
MCOM 211	Editorial and Feature Writing	3	-
MCOM 212	Public Communication and Speech Writing S	-	3
MCOM 213	Introduction to Advertising and Public Relations	3	-
MCOM 215	Editing and Graphics of Communication	3	-
MCOM 216	Book Publishing	-	3
MCOM 217	News Writing and Reporting	3	-
MCOM 218	Basic Phonetics	-	3
MCOM 219	Statistics for Social Science	3	-
MCOM 222	Landmark Issues in Nigeria Mass Media	-	3
	<b>*ELECTIVES</b>		
PLSC 200	Nigerian Government and Politics	-	3
ECON 225	Structure of Nigerian Economy	3	-
	<b>TOTAL (50 Credits)</b>	<b>25</b>	<b>25</b>

**\*Studenta are expected to select one elective course in each semester.**

**BACHELOR OF SCIENCE (Hons), MASS COMMUNICATIONS  
PUBLIC RELATIONS AND ADVERTISING (PRAD) OPTION  
300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
	<b>CORE COURSES</b>		
MCOM 301	Theories of Mass Communication	3	-
MCOM 305	Media Law and Ethics	3	-
MCOM 307	Newspaper Management and Production	3	-
MCOM 314	Internship (Summer program)	-	2
MCOM 341	Consumer Behavior	3	-
MCOM 342	Media Planning and Management	-	3
MCOM 343	Brand Management	3	-
MCOM 344	Advert Creative Writing and Technique	-	3
MCOM 346	Specialized Reporting	-	3
MCOM 348	Issues in Nigerian Mass Media	-	3
MCOM 356	Photo Editing	-	3
MCOM 366	Research in Mass Communication	-	3
MCOM 368	PR Techniques and Implementation	-	3
	<b>*ELECTIVE COURSES</b>		
MCOM 331	Radio/TV Studio Management and Production	3	-
MCOM 332	Broadcast Presentation and Commentary	-	3
MCOM 333	Radio/TV News Writing and Production	3	-
MCOM 336	Drama and Documentary Production	-	3
MCOM 338	Film, Theory and Aesthetics	-	3
	<b>TOTAL (46/49 Credits)</b>	<b>23</b>	<b>23/26</b>

**\*Broadcast elective courses are optional for students specializing in PRAD.**

**BACHELOR OF SCIENCE (Hons), MASS COMMUNICATION  
BROADCASTING OPTION  
300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 310	E-Customer Relationship Management	2	-
GEDS 312	Introduction to Family Life Education	-	2
	<b>CORE COURSES</b>		
MCOM 301	Theories of Mass Communication	3	-
MCOM 305	Media Law and Ethics	3	-
MCOM 307	Newspaper Management and Production	3	-
MCOM 314	Internship (2 Credits at Summer)	-	-
MCOM 331	Radio/TV Studio Management and Production	3	-
MCOM 332	Broadcast Presentation and Commentary	-	3
MCOM 333	Radio/TV News Writing and Production	3	-
MCOM 336	Drama and Documentary Production	-	3
MCOM 338	Film, Theory and Aesthetics	-	3
MCOM 346	Specialized Reporting	-	3
MCOM 348	Issues in Nigerian Mass Media	-	3
MCOM 356	Photo Editing	-	3
MCOM 366	Research in Mass Communication	-	3
	<b>*ELECTIVE COURSES</b>		
MCOM 341	Consumer Behavior	3	-
MCOM 342	Media Planning and Management	-	3
MCOM 343	Brand Management	3	-
MCOM 344	Advert Creative Writing and Technique	-	3
MCOM 368	PR Techniques and Implementation	-	3
	<b>TOTAL (46 Credits)</b>	<b>23</b>	<b>23/26</b>

**\*Broadcast elective courses are optional for students specializing in PRAD.**

**BACHELOR OF SCIENCE (Hons), MASS COMMUNICATION  
PUBLIC RELATIONS AND ADVERTISING (PRAD) OPTION  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
MCOM 411	International Communication	3	-
MCOM 415	Data Analysis in Communication Research	3	-
MCOM 417	Communication for Development	3	-
MCOM 418	Issues in Religious Communication	-	3
MCOM 420	Webpage Designing and Publishing	-	3
MCOM 442	Economics and Social Issues in PRAD	-	3
MCOM 443	International PR and Advertising	3	-
MCOM 444	Integrated Marketing Communications	-	3
MCOM 445	Organisation and Management. of PRAD Agencies	3	-
MCOM 447	Finance and Public Relations	3	-
MCOM 456	Communication and Society	-	3
MCOM 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
MCOM 432	Broadcast Management and Programming	-	3
MCOM 435	Educational Broadcasting	3	-
MCOM 436	Film Criticism and Appreciation	-	3
MCOM 437	International and Foreign Broadcasting	3	-
MCOM 451	Public Affairs Broadcasting	3	-
	<b>TOTAL (46 CREDITS)</b>	<b>22</b>	<b>24</b>

**\*Broadcasting elective courses are optional for students specializing in PRAD.**

**BACHELOR OF SCIENCE (Hons), MASS COMMUNICATION  
BROADCASTING OPTION  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
MCOM 411	International Communication	3	-
MCOM 415	Data Analysis in Communication Research	3	-
MCOM 417	Communication for Development	3	-
MCOM 418	Issues in Religious Communication	-	3
MCOM 420	Webpage Designing and Publishing	-	3
MCOM 432	Broadcast Management and Programming	-	3
MCOM 435	Educational Broadcasting	3	-
MCOM 436	Film Criticism and Appreciation	-	3
MCOM 437	International and Foreign Broadcasting	3	-
MCOM 451	Public Affairs Broadcasting	3	-
MCOM 456	Communication and Society	-	3
MCOM 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
MCOM 441	Management of PRAD Agencies	3	-
MCOM 442	Economics and Social Issues in PRAD	-	3
MCOM 443	International PR and Advertising	3	-
MCOM 444	Integrated Marketing Communications	-	3
MCOM 447	Finance and Public Relations	3	-
	<b>TOTAL (46 CREDITS)</b>	<b>22</b>	<b>24</b>

**\*PRAD elective courses are optional for students specializing in Broadcasting.**



## **BSc. (Hons), MASS COMMUNICATION COURSE DESCRIPTIONS**

### **MCOM 101: INTRODUCTION TO MASS COMMUNICATION 3 Credits**

This course deals with the exploration of Mass communication as a subtype of human communication. The process, models, elements, and adjuncts of Mass Communication shall be stressed. The course also treats in detail, the function and relevance of the traditional and digital media of Mass Communication to society, and the role of the Mass Media, impact of the Mass Media, as well as national Mass Media systems between and across countries. The role of technology in Mass Communication is also highlighted.

### **IRMA 102: INTRODUCTION TO INFORMATION SCIENCE 3 Credits**

Historical development of information science; relationship to other disciplines and differences between data, information, communication and knowledge; the nature of information, forms of information, quality of good information, the information life cycle, the role and value of information profession, information services. Analysis of specific cases reflecting the professional intellectual freedom, community service, professional ethics, social responsibilities, intellectual property and information. **(Core).**

### **BSAD 111: BUSINESS MATHEMATICS I 2 Credits**

Introduction to set Theory with applications to business related problems. Indices and Indicial equations with Graphs Algebraic expressions. Polynomials. Equations and Inequalities with applications. Coordinate geometric of lines. System of linear equations with applications. Sequences and series with applications. Simple and compound interests. Present value. Annuities, amortization. Introduction to  $m \times n$  matrices and applications. Elementary Operations on matrices. Determinants. This does not apply to students majoring in computer science or mathematics.

### **BSAD 112: BUSINESS MATHEMATICS II 2 Credits**

Functions of real-variables. Concepts and Definition. Limit and continuity of functions. Derivatives and Techniques of finding derivatives with applications to business problems. Increasing and Decreasing functions with applications. Extreme values and applications. Integration and techniques with applications. Functions of several variables. Derivatives and applications. This does not apply to students majoring in computer science or mathematics.

### **MCOM 113: HISTORY OF NIGERIAN MASS MEDIA 3 Credits**

This course chronicles in a critical manner the evolution of mass media in Nigeria. It traces trends in the establishment and control of the mass media from 1859 till date and the role of some notable nationalists in shaping the course of the press in Nigeria. It also assists foundation students with a good knowledge of Mass Communication that they could build up in their later years for a successful carrier in media work.

**MCOM 116: INTRODUCTION TO BROADCASTING                      3 Credits**

This course introduces students to the concept of broadcasting. The course takes an overview of the physical, technical and societal bases of radio and television broadcasting. It relates the laws of nature that makes broadcasting possible as well as the scientists who exploited them. The course also discusses the equipment used in radio and television. In addition, it also surveys the diverse environment of broadcasting stations and networks

**MCOM 117: AFRICAN COMMUNICATION SYSTEM                      3 Credits**

Emphasis is on African oral traditional communication structure, form and content. In addition, the course also surveys past and present modern mass media systems as influenced by African political culture, beliefs and attitudes.

**MCOM 118: INTRODUCTION TO PHOTO JOURNALISM                      3 Credits**

This course introduces students to the basics of Photo Journalism: the importance of pictures in newspapers; how to handle camera; types of camera; vantage points for taking photographs; types of pictures. The course also covers photo studio operations i.e. how to develop films and other procedures. The course also develops students' sensitivity to peoples events in the composite of meaningful contextual images.

**MCOM 119: BASICS OF JOURNALISTIC WRITING                      3 Credits**

The course is designed to teach students the techniques and strategies of peripheral journalistic writings. The roles of grammar, style and English Language in effective writing will be taught. Incorporated into this introductory writing course is rudiments of English grammar, wherein basic concepts like classes of words, phrases, clauses, sentences, tense and so on will be treated. This course is meant to enhance the students' competence in English, both in writing and speaking

**MCOM 120: FUNDAMENTALS OF MARKETING                      3 Credits**

The course deals with Public Relations and Advertising as communication tools which can be used to market or promote a person, idea and an organization. The art and science of marketing will be discussed as basis for determining the need and type of communication solution which can effectively deal with marketing problems in different situations.

**MCOM 211: EDITORIAL AND FEATURE WRITING                      3 Credits**

This is an intensive and in-depth study of both editorial and feature writing. It examines what it takes to write a successful editorial; the nitty-gritty of editorial writing-style, language, logic targeting of an audience. It presents the constitutions and politics of the editorial boardroom and the role of the editorial page in shaping community decision making. This course also provides exposures on the writing and analysis of factual articles for newspapers, magazines, subject research, investigation and interpretation of issues, ethical problems and preparation of

manuscripts. Types of features, determination of topic relevance, activities of the features desk, issues of style in features, readability and creative use of language are also highlighted.

**MCOM 212: PUBLIC COMMUNICATION AND SPEECH WRITING      3 Credits**

This is a fundamental course in communication that teaches the basic theory and principles of oral communication. Students are taught how to prepare, present and critically listen to both informative and persuasive speeches.

**MCOM 213: INTRODUCTION TO ADVERTISING AND P. R                      3 Credits**

This course teaches the fundamentals of advertising and public relations and their purpose. It delves into theory of advertising and public relations as well as the basis for the practice of advertising and public relations.

**MCOM 215: EDITING AND GRAPHICS OF COMMUNICATION      3 Credits**

This is an how-to-do-it course. Thus, students are taught how to write and copy edit in conformity with the new media technology. Emphasis is placed on the preparation of articles and photo-editing for newspapers and magazines.

**MCOM 216:                      BOOK PUBLISHING                                      3 Credits**

This course deals with the general idea of publishing as an intellectual and cultural activity with a business undertone. The course also examines the origin, growth, publishing process, techniques and challenges of book publishing. It shall combine theory with practice culminating in a publishing project to be undertaken by the students.

**MCOM 217:      NEWS WRITING AND REPORTING                                      3 Credits**

This is an how-to-do-it course designed to make students become adept in writing news stories under deadline pressures. Beats are assigned students on campus to develop and write stories for publication in campus newspaper and magazine. They are also to be encouraged to write publishable stories in metropolitan media.

**MCOM 218:                      BASIC PHONETICS                                      3 Credits**

This is an intensive course on human speech sounds. It identifies the avalanche of sounds humans everywhere in the world are capable of producing for communicative purposes. Production of these various speech sounds will be looked at from the perspective of how they are produced, with special emphasis on the organs of speech that are involved in their production. The course will enhance students pronouncing ability and also skill them in the ability to transcribe unfamiliar words from other languages of the world that they may not be familiar with. Based on the aforementioned, there will be practical pronouncing and transcription sessions geared towards the development of the ability to pronounce words as the native speakers of any language in question.

**MCOM 219:      STATISTICS FOR SOCIAL SCIENCE                                      3 Credits**

This course introduces students to descriptive, analytic and predictive statistics. The students are taught the measures of central tendencies, sampling distribution, estimation of population

parameters – confidence intervals, hypothesis testing and application. The course also covers the logic and technique of chi-square, correlation, regression and analysis of variance (ANOVA).

**PLSC 200: NIGERIAN GOVERNMENT AND POLITICS 3 Credits**

The course traces the history of Nigeria's political development since amalgamation and introduces students to the workings of colonialism and its effects on the economy and society. Also, the course examines the problem of Nigerian nationalism, the constitutional evolution and emergence of political parties, survey of approaches to the study of Nigerian government and politics (Cultural, conflict, dependency and imperialist models, etc).

**MCOM 222: LANDMARK ISSUES IN NIGERIA MASS MEDIA 3 Credits**

This course deals with the overview of the mass media in Nigeria with respect to pattern of growth, prospects and challenges. The course evaluates the features of the mass media in Nigeria in light of successive regimes. Such issues as media policy and professionalism posed to how marketing mix variables can be utilized to prevent or help solve consumer problems and how PR tools/advertising messages can be used to monitor consumer movements' advocates for the benefits of an organization. It also discusses the impact of consumer movement on the market.

**ECON 225: STRUCTURE OF NIGERIAN ECONOMY 3 Credits**

The course examines the major sectors of the Nigerian economy and their characteristics features; developments of the economy over time and the problems; the major institutions and organs responsible for planning and shaping of policies that have gone into making the sectors as well as the state of the economy as at present, major changes that have occurred in the country since independence especially those related to National Income and its components, investments, exports, imports, money supply and government expenditures and revenues.

**MCOM 301: THEORIES OF MASS COMMUNICATION 3 Credits**

This course deals with the analysis and exploration of key theories in Mass Communication i.e. the nature, uses and effects of the theories. The relation between theory and research and the relevance of the two to each other is discussed. The course also emphasizes the importance of theories to the study of Mass Communication.

**MCOM 305: MEDIA LAW AND ETHICS 3 Credits**

This course is a study of the legal framework within which the mass media operate in Nigeria. The laws affecting the Mass Media like libel, sedition, privacy, contempt, obscenity, copyright, advertising law, and other regulations will be taught.

**MCOM 307: NEWSPAPER MANAGEMENT AND PRODUCTION 3 Credits**

The course deals with basic theories and practice of production and management of newspaper and magazine outfits. Through workshops and group assignments, students acquire skills in newspaper and magazine production.

**MCOM 314: INTERNSHIP 2 Credits**

This is a requirement for students to be exposed to the media for practical experience during summer. They are expected to put in a minimum of 12 weeks of intensive industrial attachment. Each student is expected to keep a log book which will be duly signed by the supervising officer

### **MCOM 331: RADIO/TV STUDIO MANAGEMENT AND PRODUCTION**

**3 Credits**

This course is about the analysis of management theories as related to broadcast stations. Students will learn the purpose, function, and execution of basic techniques of audio and television and video fields and studio production operations. Emphasis will be placed on the production of broadcast-quality audition tapes.

### **MCOM 332: BROADCAST PRESENTATION AND COMMENTARY 3 Credits**

This course introduces students to the basics of announcing and performing in broadcasting. It is a practical-oriented course with emphasis on 'how to do' techniques. Students will be taught presentation, and pronunciation skills with working knowledge of phonetics. At the end of the course, students should be able to anchor programmes in a radio or television station and man a shift of 46 hours in any broadcast outfit. The University FM Station will be used for practicals.

### **MCOM 333: RADIO/TV NEWS WRITING AND PRODUCTION 3 Credits**

The course deals with an appraisal of the broadcast medium reportorial process, review of sources of news, elements of news and their values. The course also covers the gathering and writing for radio and television and guidelines for their preparation. It also examines broadcast news copies, production of news brief and bulletin of different format. The University FM radio station will be used for practicals.

### **MCOM 346: SPECIALIZED REPORTING**

**3 Credits**

The course presents more mature instruction and practice on reportorial skills with emphasis on interpretative and investigative reporting and other in-depth reporting techniques. Further focus shall be on meeting the surveillance need of specific sectors of society viz; science, business, education, religion, sports, agriculture, and health. Special emphasis will be placed on instruction and practice in writing popular science articles for newspapers and magazines. This is to facilitate the translation of scientific language, familiarization with literature of science and the interviewing of scientists.

### **MCOM 366: RESEARCH IN MASS COMMUNICATION**

**3 Credits**

The focus of this course is to introduce students to data gathering methods in Mass Communication. To enable them to analyze research data and critically evaluate any journalistic writing and social science research. The course is designed to help students apply knowledge gained in carrying out research projects.

### **MCOM 368 : PUBLIC RELATIONS TECHNIQUES & IMPLEMENTATION 3 Credits**

The course builds on introductory courses in public relation it emphasizes practical-orientated strategies in the use of public relation as tools for solving communication problems particularly highlighting the differences between commercial and non-commercial organizations. This course also employs the application of quantitative and qualitative research methodologies in public

relations. Emphasis will be placed on media research, copy research, audience research and budgeting.

**MCOM 356: PHOTO EDITING 3 Credits**

This course teaches the use of Photoshop, Macromedia, Fireworks and other editing software for cropping, sizing, and manipulating of photographic images for print, TV and film

**MCOM 336: DRAMA AND DOCUMENTARY PRODUCTION 3 Credits**

This course is an in-depth study of the process of Radio/TV drama production, Scripting, blocking, casting, budgeting and performance shall be treated. Also, the course treats documentary concepts through analysis of radio, television and film documentary. The course will be centered on the development, writing and production of a documentary. There is equal emphasis on theory and practice.

**MCOM 338: FILM, THEORY AND AESTHETICS 3 Credits**

This course explores the trend in the growth and development of film as an extension of photography and teaches the rudiments of Film production, Particular areas of emphasis are film theory and aesthetics, film animation, documentary film production and film appreciation and criticism.

**MCOM 341: CONSUMER BEHAVIOUR 3 Credits**

A critical examination of consumer behaviour and consumerist movements. The course demonstrates how marketing, advertising, and public relations tools are used to determine the attitude of consumers, in addition to solving consumers' problems.

**MCOM 342: MEDIA PLANNING AND MANAGEMENT 3 Credits**

The course involves the preparation of advertising media plan within the policy framework of an organization. Critical analysis of various media vis-à-vis target audience reached, and the frequency of reach is also done. A detailed examination and consideration of the factors affecting or influencing media buy is also discussed.

**MCOM 343: BRAND MANAGEMENT 3 Credits**

This is a how-to-do-it course. It centers on the planning and execution of a brand. It covers the following content areas: ad campaign plan; marketing and consumer research; budget in advertising, intensive exercises are given in small groups.

**MCOM 344: ADVERTISING CREATIVE WRITING AND TECHNOLOGY 3 Credits**

The course teaches the theory and practice of writing effective advertising message for the print and broadcast media. The course also discusses the creative application of consumer and market surveys, copy testing methods and advertising readership studies.

**MCOM 411: INTERNATIONAL COMMUNICATION 3 Credits**

This course is an overview of the world's media systems. The issues in the New World Information and Communication Order are highlighted. There shall be an examination of how culture, ideology, politics, technology, economy and market structures have influenced the international flow of news among nations. It also extends the horizon of knowledge of students

in discussion of such issues of global relevance variety of world religions ethics of using media in religion, elements of communication amongst others.

**MCOM 415: DATA ANALYSIS IN COMMUNICATION RESEARCH 3 Credits**

**Pre-requisite: MCOM 366: Research in Mass Communication.** This course builds on an introductory course titled communication research. It covers the methods of collection, collation, presentation, analysis and interpretation of empirical data in mass media research. Statistical operations involving the use of tables, graphs, measures of central tendency and dispersion will be taught.

**MCOM 417: COMMUNICATION FOR DEVELOPMENT 3 Credits**

The behavioural approach to using communication as a catalyst for development is the main thrust of this course. A practical appreciation of the indispensability of information in bridging gaps and breaking parochial boundaries. Specific emphasis shall be on the use of communication in health care delivery, political awareness and orientation, agricultural and rural extension services.

**MCOM 418: ISSUES IN RELIGIOUS COMMUNICATION 3 Credits**

The course is an in-depth study of the use of the media by religious organizations. Exercises will be given to introduce students to consultancy opportunities available to media professionals given increasing involvement of as a result of mass media in religious and social communications. The course shall also examine the economics and sustainability of religious media.

**MCOM 420: WEBPAGE DESIGNING AND PUBLISHING 3 Credits**

This course exposes students to the process of creating and designing web pages for media and other organizations. It also teaches them the procedure of how to publish newspapers, magazines, books, etc on the web.

**MCOM 441: ORGANIZATION AND MANAGEMENT OF PRAD AGENCIES 3 Credits**

This course is centered on establishment and effective guidelines for starting, operating and management of advertising agencies and public relations outfit. The organization, operation and co-existential nature of the various departments in these outfits are discussed together with the rudimentary principles of management and accounting.

**MCOM 442: ECONOMICS AND SOCIAL ISSUES IN PRAD 3 Credits**

The course is a study in advertising and public relations as an institution. It covers the laws and ethics governing the profession in Nigeria, vis-à-vis what obtains elsewhere. Self-regulation by practitioners and professional associations; consideration and social responsibility; truth and deception and consumer protection are discussed.

**MCOM 443: INTERNATIONAL PR AND ADVERTISING 3 Credits**

This course is designed to expose students to the roles of public relations and advertising in a global village that is characterized by a universal culture and consumption habit. In particular, the roles and nature of PR/AD in the programmes of transnational corporations, international non-governmental organizations and countries will be discussed.

**MCOM 444: INTEGRATED MARKETING COMMUNICATION      3 Credits**

This course approaches product -promotion from an integrated perspective. It teaches the discipline and principles of unity and consistency of all the elements of promotion. It emphasizes the harmonization of advertising, direct marketing, sales promotion, publications and personal selling through synergy for effective brand marketing.

**MCOM 447: FINANCE AND PUBLIC RELATIONS      3 credits**

It is a course designed for students who may find themselves in financial institutions such as banks, insurance company etc. The course involves investments and the likes. It is also designed to impact skills through a study of a variety of publications on techniques for planning, budgeting, designing, writing and distributing such publications.

**MCOM 451: PUBLIC AFFAIRS BROADCASTING      3 Credits**

The course explores the structures, dynamics and functions of the news and public affairs department of broadcasting organizations. It also examines investigative and interpretative reporting of public institutions, agencies and the government. It also exposes students to production of current affairs programmes e.g. documentaries, news magazines, discussions, and interviews indepth through group discussions and activities.

**MCOM 456: COMMUNICATION AND SOCIETY      3 Credits**

The course is a survey of the media of mass communication as a social institution with reference to sociological concepts, theses and problems. The functions and role of the mass media vis-a-vis major institutions in the society will be examined. The mass media and culture in the local and global contexts shall be highlighted.

**MCOM 490:      RESEARCH PROJECT      6 Credits**

The research project allows students to initiate and execute a scientific research effort, under the supervision of a lecturer, that is of publishable standard and that enhances knowledge. The research project must in substance and procedure conform to Mass Media research tradition.



## DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION



***Prof. Michael Abiodun ONI***  
***Head of Department***

### DEPARTMENTAL FACULTY

S/N	NAME	ACADEMIC RANK	AREA OF SPECIALISATION
1.	ONI, Michael Abiodun, PhD	Professor/HOD	Nigerian Government & Politics, Research Methods, Party Politics & Elections
2.	MAKINDE, J.A. Kayode, PhD	Professor	Political Science, Religion, Administration

3.	AINA, Ayandiji. D., PhD	Professor	Political Behaviour, Public Communication, Peace and Strategic Studies
4.	YACOB-HALISO, Olajumoke, PhD	Associate Professor	Peace & Conflict Studies; Gender & Women Studies; Comparative Politics; International Relations
5.	NTIWUNKA, Gift U., PhD	Associate Professor	Public Administration and Gender Studies
6.	ALAO, David O., PhD	Associate Professor	Peace and Conflict Studies
7.	AUDU, Sunday Didam, PhD	Associate Professor	Peace & Conflict Studies and International Relations
8.	MBAGWU, Joan, PhD	Senior Lecturer	Defense and Strategic Studies
9.	OJO, Olawole V., PhD	Senior Lecturer	Intergovernmental Relations and International Relations
10.	NWOGWUGWU, Ngozi, PhD	Senior Lecturer	Public Administration, Public Policy and Governance, Political Behaviour, Gender Studies, Public Finance and Budgeting.
11.	NWACHUKWU, Joel N., PhD	Senior Lecturer	Public Administration; Development Studies & Admin.
12.	ADEWUMI, Eyitayo F., PhD	Senior Lecturer	International Relations; Foreign Policy
13.	AYOMOLA, Oluranti O., PhD	Senior Lecturer	Peace and Conflict Studies, Political Science
14.	OGUNDIWIN, Aaron O., PhD	Senior Lecturer	Political Theory; Nigerian Government & Politics, Comparative Politics; State Society Relations
15.	METONOU, Akissi, PhD	Lecturer I	Law and Diplomacy
16.	NWAODIKE, Chibuzor, PhD	Lecturer I	Public Administration, Local Government, Nigerian Government & Politics
17.	ISOLA, Abidemi A., PhD	Lecturer I	Public Administration & Development Studies
18.	OSUNDINA, Olasunkanmi, PhD	Lecturer I	Public Administration, Political Economy
19.	OSAH, Goodnews, PhD	Lecturer I	Peace and Conflict Studies, Gender Studies, Governance and Politics in Africa
20.	ADESIYAN, Victor A., PhD	Lecturer I	Peace and Conflict Studies
21.	OGU, Michael, PhD	Lecturer I	International Relations
22.	EZE-MICHAEL, Eze, PhD	Lecturer II	International Relations
23.	SAM-OKERE, Justina, PhD	Lecturer II	Public Administration
24.	ALAO, Bukola, M.Sc.	Lecturer II	Public Administration

25.	OYELUDE, Oluwafunmilayo, PhD	Lecturer II	Statistics/Public Administration
26.	BABAJIDE, Jacob, M.Sc.	Assistant Lecturer	Political Science (International Relations)
27.	OPAKUNBI, O., M.Sc.	Assistant Lecturer	Political Science (International Relations)
28.	ETI, Chinedu E., M. Sc.	Assistant Lecturer	Development Studies / International Relations
	<b>Administrative Staff</b>		
29.	VICTOR, Ngozi C., PGD	Principal Office Manager	Public Relations

### GENERAL INFORMATION ABOUT THE DEPARTMENT

Students and friends are welcome to the department of Political Science and Public Administration, one of the leading departments in Babcock University. It is a great privilege for a student to be able to secure a place in this department, given the fact that applications for admissions usually number in their hundreds. It is hoped, therefore that the student will make the best of this opportunity. The department is one of the foundation departments at the inception of academic activities at Babcock University in September 1999. It started with two degree programs B.Sc. in Political Science and B.Sc. in Public Administration with modest staff strength of four. In September 2001, the B.Sc. International Law and Diplomacy programme was added.

The department has discovered a big gap yet to be filled in the training of professionals with manifest high moral credentials in addition to career excellence. The Nigerian and African political and administrative landscape stands to gain from the training of people who are prepared to excel by providing leadership by example, guided by the fear of God.

Career opportunities open to trained political scientists, diplomats and administrators are many and include careers in diplomatic services; employment in the civil service at any of the three tiers of government- Federal, state or local; and as university lecturers and teachers in the secondary schools, polytechnics and colleges of education. Also, opportunities have long abounded for political science, international law and diplomacy and public administration graduates to be employed within the executive hierarchies of private business corporations and companies, including multi-national companies and international organisations. Of those our graduates who secure jobs either in corporate, business or any of the research institutes requiring their skills, a sizeable number may need to proceed beyond their first degree to a Master of Science (M.Sc.) in Political Science, Master of Business Administration (MBA), or Master of Public Administration (MPA) or Master of Public Management (MPM) or Master of Science (Public Administration), as well as Masters in International Law and Diplomacy (MILD) as pre – requisite to the higher executive positions in business or government, as well as to doctorate degree programmes.

The department encourages its students to interact not only with its staff but with one another. The platforms for such interactions have been the Political Science Students Association

(POLSSA), the International Law and Diplomacy Students' Association (ILDSA), and the Public Administration Students Association (PASA).

### **Philosophy of the Department**

In a national and international climate of leadership deficits, moral vacuous-ness, intellectual bankruptcy and paucity of usable skills, the Department discerns a need to contribute to the search to remedy these problems by developing young people who will become the heralds of a new Nigeria, and indeed of a better world. Therefore the Department privileges the impartation of high quality intellectual knowledge and resources, conscientious character moulding and re-moulding, deliberate leadership training, and the active engagement of the town with the gown. The intended results will be the generation of catalytic graduates and research outputs that fundamentally impact and transform the family, the community, their organisations, the nation, Nigeria, and the world at large. Ultimately, the Department hopes to thereby participate in the divine mission of redeeming, reforming and renewing humanity towards preparation for a new heaven and a new earth, as promised in the Word of God, the Holy Bible.

### **Vision Statement**

A first-class academic and research programme, imparting quality Christian education and up-to-date skills for building servant leaders for this world and the next.

### **Mission Statement**

Excellence through teaching and research geared towards producing manpower and ethical leadership for public and private sector and international organisations, as well as the positive transformation of the nation, Nigeria, and the world.

### **Programme Objectives**

No other department at Babcock University is better placed to achieve the University's Vision Statement, which is to train servant leaders for a better world. In line with the University vision and mission statement, the objectives of the Department are to:

1. Provide high quality education geared towards producing ethical professionals in service of their community, the nation and the world;
2. Prepare students for advanced academic research in the fields of political science, international law, diplomatic studies, public administration and related fields;
3. Impart practical leadership knowledge and skills to enable graduates become leaders in their chosen fields of endeavour;
4. Instil in students the foundational belief in God as Creator, Redeemer and Judge, the architect of the moral, social, physical, spiritual and intellectual basis for all human and inter-national relationships.

### **Admission Requirements**

Candidates for admission into the BSc Political Science, BSc Political Science (ILD) and BSc Public Administration programmes must have obtained a minimum of five credits at not more than two sittings in five social subjects at the ordinary level examinations. These five subjects **MUST** include English Language and Government or History; ***no substitutions or waivers of***

*these subjects are permissible.* A credit or pass in Mathematics is an added advantage, and any other social science subjects.

### **Graduation Requirements**

The BSc Political Science, BSc Political Science (ILD) and BSc Public Administration programmes are four year programmes, consisting eight semesters, excluding optional summer semesters in which students may opt to register for regular courses as well as failed courses. Each regular semester consists of 18 weeks of formal teaching, peri-curriculum instruction and assessments. Each departmental 3-unit course includes a scheduled mandatory one hour tutorial per week. The general requirements for graduation include the following:

- (a) Completion of a minimum credit unit load (as indicated in the table below per programme) including core, elective and general education courses;
- (b) Complete, defend and report a final year research project under the supervision of a faculty member;
- (c) Achieve a CGPA of 2.50 and above.

**Table Showing Minimum Credit Load Required for Graduation Per Programme**

Level	GEDS Courses	Departmental Courses	Non-Departmental Courses	Total
<b>Political Science</b>				
<b>100</b>	17	24	0	41
<b>200</b>	13	27	9	49
<b>300</b>	7	30	6	43
<b>400</b>	7	30	3	40
<b>Total</b>	44	114	15	173
<b>PS ( International Law &amp; Diplomacy)</b>				
<b>100</b>	17	15	9	41
<b>200</b>	13	27	9	49
<b>300</b>	7	36	0	43
<b>400</b>	7	33	0	40
<b>Total</b>	44	114	15	173
<b>Public Administration</b>				
<b>100</b>	17	24	0	41
<b>200</b>	13	27	9	49
<b>300</b>	7	30	6	43
<b>400</b>	7	30	6	43
<b>Total</b>	44	117	15	176

**B. Sc. (Hons) POLITICAL SCIENCE**  
**100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	GENERAL EDUCATION COURSES		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
	CORE COURSES		
PLSC 100	Introduction to Political Science	3	-
PBAD 100	Introduction to Public Administration	-	3
PLSC 111	Introduction to African Politics	3	-
PLSC 112	Nigerian Constitutional Development	-	3
PLSC 120	Citizens and The State	-	3
PLSC 121	Introduction to International Relations	3	-
PLSC 131	Foundations of Political Economy	3	-
PBAD 142	Introduction to Sociology and Anthropology	-	3
	TOTAL (41 Credits)	22	19

**B.Sc (Hons) POLITICAL SCIENCE  
200 LEVEL COURSES**

100 LEVEL COURSES			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agricultural Science	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 280	Leadership Skills	-	2
GEDS 270	Peace and Conflict Resolution	-	2
	CORE COURSES		
PLSC 200	Nigerian Government and Politics	-	3
PLSC 201	Political Analysis	3	-
PLSC 211	Political Ideas	3	-
PLSC 220	Statistical Methods in the Social Sciences	-	3
PBAD 201	Principles of Management	3	-
PBAD 202	Local Government in Nigeria	-	3
PLSC 230	History of Political Thought	3	-
PLSC 231	Introduction to Comparative Politics	3	-
PLSC 232	Logic and Scientific Reasoning	-	3
FREN 131, 132	Elementary French I, II	3	3
ECON 100	Principles of Economics	-	3
	TOTAL (49 Credits)	25	24

**B.Sc. (Hons) POLITICAL SCIENCE**  
**300 LEVEL COURSES**

3 <sup>RD</sup> LEVEL COURSES			
COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	-	2
	CORE COURSES		
PLSC 300	Research Methodology	-	3
PLSC 306	Comparative Federal Systems	-	3
PLSC 310	Comparative Politics	3	-
PLSC 322	Political Behaviour	-	3
PLSC 330	African Political Thought	3	-
PLSC 340	Theories of International Relations	-	3
PLSC 350	Contemporary Political Analysis	3	-
PLSC 365	Globalisation and Politics of Development	3	-
FREN 215, 216	Intermediate French I, II	3	3
PLSC 380	Practicum	0	0
	*ELECTIVE COURSES		
PLSC 353	Religion and Politics	3	-
PLSC 363	Political Parties and Pressure Groups	3	-
PLSC 371	Theory and Practice of Marxism	3	-
PLSC 396	Politics of International Economic Relations	-	3



ILDP 313	Diplomatic and Consular Law I	3	-
ILDP 361	Moral Issues in International Politics	3	-
PBAD 312	Government and Administration of Urban Systems	-	3
PBAD 335	Theory and Practice of Administration	3	-
PBAD 351	Development Administration	3	-
PBAD 232	Nigerian Public Administration	-	3
	<b>TOTAL (43 Credits)</b>	<b>21</b>	<b>22</b>

**\*Students are to choose one elective only in each semester.**

**B. Sc. (Hons) POLITICAL SCIENCE  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
PLSC 401	Politics and Law in Africa	3	-
PLSC 402	State and Economy	-	3
PLSC 412	Nigeria Foreign Policy	-	3
PLSC 431	International Law and Organisations	3	-
PLSC 445	Gender and Politics	3	-
PLSC 480	Defense and Strategic Studies	3	-
ECON 400	National Economic Planning	-	3
PLSC 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
LAWS 422	Principles of Administrative Law	-	3
PBAD 431	Public Policy Making and Analysis	3	-
PLSC 411	Civil-Military Relations	3	-
PLSC 430	Politics of Intergovernmental Relations	3	-
PLSC 442	Conflict and Bargaining in International Relations	-	3

PLSC 466	African International Relations	-	3
PLSC 471	International Politics of Mass Communication	3	-
ILDP 417	International Human Rights Law	3	-
ILDP 456	International Refugee Law	-	3
ILDP 473	International Humanitarian Law	3	-
	<b>TOTAL (40 Credits)</b>	<b>19</b>	<b>21</b>

**\*Students are to choose one elective only in each semester.**

### **B. Sc. (Hons) POLITICAL SCIENCE COURSE DESCRIPTIONS**

#### **PLSC 100: INTRODUCTION TO POLITICAL SCIENCE 3 Credits**

This is a compulsory course for 100 level students of Political Science, International Law and Diplomacy, and Public Administration. The goal is to introduce the students to the rudiments of the discipline by applying Christian principles with the hope of inculcating in them values that will bring about positive changes in society. This entails an understanding of the concepts of politics, political science, and the status of the discipline as an art or science. It will further focus on various approaches to the study of political science, concepts such as the state, government, power, authority and influence, forms and organs of government, constitution and constitutionalism as well as rule of law and separation of power; amongst others.

#### **PLSC 120: CITIZENS AND THE STATE 3 Credits**

Examines the relationship between the citizens and the state in terms of duties and obligations. Also, the course will examine basic concepts such as, rights, duties, obligations and responsibilities, leadership, followership, loyalty, and patriotism, the nature of the environment, etc. Students will be taught that as God's children, we are enjoined to submit to all authorities, which are instituted by God, but that ultimately, "our citizenship is in heaven, from where we await a Saviour."

#### **PLSC 111: INTRODUCTION TO AFRICAN POLITICS 3 Credits**

The course will survey approaches to the study of African government and politics as well as the basic features of pre-colonial, colonial and post-colonial African states, conflicts, military rule and political succession etc. The overarching framework is an ethical assessment of African

government and politics, and a prescription of biblical approaches to leadership and public service.

**PLSC 112: NIGERIAN CONSTITUTIONAL DEVELOPMENT      3 Credits**

Compulsory course for 100 level students of Political Science, International Law and Diplomacy and Public Administration with a view to introducing them to the rudiments of the historical journey of constitutional and political development in Nigeria. The course is to be taught in line with Babcock Biblical perspective by enabling students to appreciate the presence and support of God in the historical journey of Nigeria. This course entails the understanding of basic concepts such as politics, constitution, constitutionalism, colonialism and nationalism among others. It covers a period between 1861 up to the present day with emphasis on such aspects as pre-colonial relationship, indirect rule, Clifford, Richards, Macpherson Constitutions and various other constitutions and amendments between 1960 and the present time and the effect on democratic culture in Nigeria as well as the role of the military in constitution making.

**PLSC 121: INTRODUCTION TO INTERNATIONAL RELATIONS      3 Credits**

The course introduces students to the meaning and scope of international relations, sources of international law, forms of interactions between and among nation states, diplomacy, power, conflict, terrorism, peace keeping etc, as well as the distinction between international relations, international system and international politics. Students are taught that God has been, and will always be involved in the affairs of men and nations, and that, as prophesied in Daniel chapter 2, it is His kingdom that will prevail in the end.

**PLSC 131: FOUNDATIONS OF POLITICAL ECONOMY      3 Credits**

The course aims to introduce the students to the understanding of political economy as a concept, field of study, approach and theory. It will provide a holistic study of the relationships that exist between issues, phenomena and policies in a given society; including an understanding of the basic reasons for the very divergent economic status that exists between the developed and developing world; the rich and poor; North and south. It will provide a clear understanding of the role of the Bretton Woods institutions in the global economic system as well as the globalization of the world. To provide a balance, different perspectives (Marxist, Capitalist and Liberal) are to be adopted in the study of various phenomena and issues. In spite of the fact that most of the original proponents of this approach to politics displayed a lack of interest in religion and Marx was famously quoted as saying that religion is the opium of the masses, the course would be taught with an inclination that God is the God of justice and equity and is the only one that can provide the parameters to ensure equity and proper re-distribution of the wealth in a given society.

**PBAD 100: INTRODUCTION TO PUBLIC ADMINISTRATION      3 Credits**

Meaning, scope and subject matter of Public Administration; Basic concepts, techniques and overview of theoretical approaches; the rationale and ecology of Public Administration, distinction between public and private administration; the evolution of Public Administration and the Politics-Administration dichotomy will be adequately interrogated. Moses' father-in-law advised that in the management of public affairs, Moses should delegate authority to group leaders (Exodus 18).

**PBAD 142: INTRODUCTION TO SOCIOLOGY AND ANTHROPOLOGY      3 Credits**

The purpose of this course is to provide the students with basic ideas and knowledge in sociology and anthropology which as to do with social structure and man and its environment. By the introduction of this course, it is believed that students will be able to understand and appreciate the basic issues like social class conflict, social dynamism, socialization (etc.), principles like integrity, team spirit, servant leadership, (etc.) in order to be able to overcome various challenges the society might pose to them. Also, approaches of sociology and anthropology in other to relate well wherever they find themselves. Students may also gain an indirect benefit of appreciating the social, cultural, and behavioural dimensions of the human beings in the society. We are social beings that emanated from the first man and woman (Adam and Eve, Gen 1&2). There is need for mutual coexistence as we are of one family, the family of God (Luke 3:38) regardless of our colour, nationality or race.

**PLSC 200: NIGERIAN GOVERNMENT AND POLITICS 3 Credits**

The course traces the chronicle of the Nigerian state; the nature of politics prior to amalgamation, colonial system of government and its manifold effects, the arguable selfless and servant leadership efforts of foremost nationalists, as well as the postcolonial administration of Nigeria. The course also examines, more specifically, the old challenges of constitutional amendments, emergence of political parties, and more recently displacement, terrorism, and the age long menace of corruption, highlighting the biblical perspectives to these issues.

**PLSC 201: POLITICAL ANALYSIS 3 Credits**

It introduces students to the various analytical approaches in political science. While paying attention to biblical principles of knowledge production, acquisition and evaluation, the course examines systems analysis and models, structural functionalism, group and elite theories, political economy, political culture, games theory, behaviouralism and distributive analysis, amongst others.

**PLSC 211: POLITICAL IDEAS 3 Credits**

Introduction to major political ideas in their historical as well as biblical context. Study of concepts such as Monarchism, liberalism, capitalism, socialism, communism, fascism, anarchism, conservatism, feminism, syndicalism, environmentalism, etc.

**PLSC 230: HISTORY OF POLITICAL THOUGHT 3 Credits**

The course is designed to examine the selected classical political thinkers whose ideas and reasoning have contributed and still contributing to the shaping and reshaping of the states. These thinkers include the following: Plato and the idea of the Republic, Aristotle political ideas; Niccolo Machiavelli; Thomas Hobbes; Jean Jacques Rousseau; John Locke Edmund Burke; Jean Bodin; Jeremy Bentham and Karl Marx. Given that Paul has said that the wisdom of the world is foolishness before God, the lasting impact of these philosophies will be evaluated in light of this biblical truth.

**PLSC 220: STATISTICAL METHODS IN THE SOCIAL SCIENCES 3 Credits**

This course focuses on basic items in descriptive, analytic, inferential and predictive statistics, measures of central tendencies, logic and technique of Chi – Square, Correlation and Regression, Analysis of variance, ANOVA, and other statistical methods. The course is an affirmation of the precise order and logic that the Creator God used to lay the foundation of the natural world.

**PLSC 231: INTRODUCTION TO COMPARATIVE POLITICS      3 Credits**

The course examines comparison as the basis of scientific knowledge in political science. It explores the government and politics of developed and developing nations from a comparative perspective of indices such as systems of government, economic prosperity, social welfare, international influence, and so on. The ultimate standard for evaluating the progress of nations will be biblical.

**PLSC 232: LOGIC AND SCIENTIFIC REASONING      3 Credits**

Explores the fundamentals of logic and scientific reasoning. Directs students to the fact that God the author of wisdom also requires us to follow the right principles and techniques of living to enjoy abundant life here on earth and eternity with Him. This has become very pertinent in the present millennium as people increasingly degenerate into reflectors of other peoples thoughts instead of engaging in tasking inquiry that leads to development of ideas and philosophies that have the potential of positively transforming the world. It will commence with basic understanding of what logic means and the elementary concepts; it will proceed to examine deduction and induction as well as valid and invalid arguments. An exploration of different types of fallacies in arguments; Exposition of the relevance of categorical syllogism; use of symbols and language, will open up the comprehensive inquiry into the understanding of techniques, approaches/methodologies of conducting scientific inquiry in the 21<sup>st</sup> Century.

**FREN 131, 132:      ELEMENTARY FRENCH   I, II      6 Credits**

The study is on the basic structure of the French language, paying careful attention to the oral as well as the written aspects of the language in an organised sequence.

**ECON 100:      PRINCIPLES OF ECONOMICS      3 Credits**

An introduction to the various issues in economics: the nature of economic science, the methodology of economics, major areas of specialization in economics, elementary principles of micro and macro-economics, historical development of economic ideas, theory of demand and supply, current issues of interest in economics and probably future developments. The parable of the talents told by Jesus is a basis for the principles of economic management that will be taught in this course.

**PBAD 201:      PRINCIPLES OF MANAGEMENT      3 Credits**

Principles of Management is a comprehensive introductory course on the management process from a manager's perspective. It emphasizes the skills, competencies, techniques and knowledge needed to successfully manage an organization. It focuses on the entire organization from both a short and long-term basis. The course also focuses the manager's strategic vision, setting objectives, crafting a strategy and then implementing it. To aspire to leadership is an honourable ambition. (I Timothy 3:1) "Management" is another word for "stewardship." "Stewards," or "managers," are responsible over something entrusted to them by someone else. Management is the process of accomplishing God's purposes and plans through proper use of human, material, and spiritual resources.

**PBAD 202:      LOCAL GOVERNMENT IN NIGERIA      3 Credits**

The course traces the evolution of local government systems in Nigeria from colonial period to date (types, reforms, problems, challenges and prospects, the powers and functions). A

preliminary assessment is done on the basis of principles of accountability, autonomy and responsibility and integrity in public service.

**PLSC 300: RESEARCH METHODOLOGY 3 Credits**

This course examines research methodology concept, types of research methods, and approaches to research. This course will provide an opportunity for participants to establish or advance their understanding of research through critical exploration of research language, ethics, and approaches. The course introduces the language of research, ethical principles and challenges, and the elements of the research process within quantitative, qualitative, and mixed methods approaches. Participants will use these theoretical underpinnings to begin to critically review literature relevant to their field or interests and determine how research findings are useful in informing their understanding of their environment (work, social, local, global). Proverbs 25:2. It is the glory of God to conceal things, but the glory of kings is to search things out. 1 John 4:1. Beloved, do not believe every spirit, but test the spirits to see whether they are from God, for many false prophets have gone out into the world. Proverbs 19:2. Desire without knowledge is not good, and whoever makes haste with his feet misses his way.

**PLSC 306: COMPARATIVE FEDERAL SYSTEMS 3 Credits**

Examines the popularity of federal solutions in new states, reasons for the adoption of federalism, the machinery of intergovernmental relations, problems of constitutional amendments, state creation and resource allocation in federal systems. Also, it will focus on the party system, representative bureaucracy and power-relations in federations. Emphasis will be on comparing these features across a spectrum of political systems around the world. Ultimately, the federal idea is portrayed as one solution to problems of divided societies, for which the rulership of Jesus is the final answer.

**PLSC 310: COMPARATIVE POLITICS 3 Credits**

The scope, basic concepts and theories associated with comparative politics, systems, structural functional, elite, modernization, power, Marxist and other theories compared and related to countries as they are affected. Various political systems are compared and contrasted on the basis of distribution of power and authority, electoral systems, local government systems, constitutions, social and economic organization, and so on. The model to be used in evaluating these systems will be the principles of the kingdom of heaven as taught by Jesus in the Gospels.

**PLSC 322: POLITICAL BEHAVIOUR 3 Credits**

Cornerstone Political Science course which studies the methodological revolution that occurred in the discipline in the mid-twentieth century. It includes the study and measurements of various determinants of political behaviour, political socialization, political culture, political participation and apathy. Christ taught that those in authority should be respected and taxes paid to the governing or ruling authority. There were laid down procedures for selection of Elders and deacons to lead the church. Electoral behaviour, voter turnout, political parties and party systems, public opinion, and political communication and various forms of political apathy and alienation will be explored. The various institutions that govern behaviour of people within the political system such as pressure groups and labour movement would be examined.

**PLSC 330: AFRICAN POLITICAL THOUGHT 3 Credits**

This course introduces students to the legends in African history and politics. These were the leaders in the forefront towards the struggle for African independence. They were relevant in the pre and post-colonial African states. They were nationalists of repute in their various states. These include Kwame Nkruma (Ghana); Obafemi Awolowo, Nnamadi Azikiwe and Ahmadu Bello (Nigeria); Leopold Senghor (Senegal); Julius Nyerere (Tanzania); Jomo Kenyatta (Kenya); Gnassingbe Eyadema (Togo); Nelson Mandela (South Africa); Mobutu Sese Seko (Democratic Republic of Congo); Sekou Toure (Guinea); and Emperor Haile Selassie (Ethiopia). Given that Paul has said that the wisdom of the world is foolishness before God, the lasting impact of these philosophies will be evaluated in light of this biblical truth.

**PLSC 340: THEORIES OF INTERNATIONAL RELATIONS 3 Credits**

Introduces students to the major paradigms and theories that have framed the practice and study of international relations over the centuries. These may include, and are not limited to: theories of balance of power, idealism, liberalism, realism, neo-liberalism, neo-realism, neo-Marxist theories, dependency theories, World Systems theory, functional integration theory, Critical theory, constructivism, feminism, postmodernism, social movement theory, human rights theory, theories of war and of peace, and so on. The brother/sisterhood of all men and women, nations, tongues and people, as taught by the Bible, and the lordship of Jesus as the Prince of Peace will underline discussion of the various theories studied under this course.

**PLSC 350: CONTEMPORARY POLITICAL ANALYSIS 3 Credits**

This course advances knowledge acquired in the Political Analysis class in which students learn about the various analytical approaches in the study of politics. The course is aimed at exposing students to critically view political activities, comment and analyze actions and inactions of decision makers, events and occurrences at all levels, be it local, national and international. Babcock core values of autonomy and responsibility becomes relevant here, accountability, integrity, excellence, are all virtues that an analyst must have and uphold in order to analyze phenomenon or issues objectively. As an analyst of political events or reporter of political activities we are accountable and responsible for our actions or analysis because posterity will judge us all.

**PLSC 353: RELIGION AND POLITICS 3 Credits**

This important course explores the nexus between religion and politics that has historically existed in every country of the world, as well as the current manifestations of this interrelationship. The course serves two main purposes: first, it covers the various intersections between religious and belief systems and the practice of politics in Nigeria, Africa and the world over, including the implications for governance, peace, and development; secondly, it aims to integrate faith perspectives in the overall experience of students in the department as they contemplate different subjects and even as they ponder their future paths.

**PLSC 363: POLITICAL PARTIES AND PRESSURE GROUPS 3 Credits**

Political parties and pressure groups serve the important functions of interest articulation and interest aggregation in any polity. This course engages in a comparative exploration of the types, functions, problems, and dynamics of political parties and pressure groups around the world and from a comparative perspective. Students are admonished about involvement in groups that edify, and not those that stand in opposition to God as He will ultimately do His will as He did with those who started to build the Tower of Babel in biblical times.

**PLSC 365: GLOBALISATION AND POLITICS OF DEVELOPMENT 3 Credits**

This course foregrounds globalization, its theories and dynamics, as a force in the development of countries of the global south. Theories of development, growth and expansion of globalization historically, features of globalization, politics and development, the politics of debt, foreign aid, dependency, underdevelopment, de-development, the institutions and instrumentalities of global development discourse and practice, and related topics will be explored. The course will explore how the increase in knowledge and men “running to and fro” predicted in the Bible by Daniel has implications for the welfare of human beings loved by God.

**PLSC 371: THEORIES AND PRACTICE OF MARXISM 3 Credits**

The course is an examination of dialectical materialism, class analysis, means and modes of production in society. Also, the course will focus on the overview of revolutionary changes brought by utilizing the Marxist – Leninist ideology, using the examples of USSR, China, Cuba, Vietnam, etc. These ideas are evaluated in light of Jesus’ teachings both about being our brother’s keeper and seeking first the kingdom of God.

**PLSC 396: POLITICS OF INTERNATIONAL ECONOMIC RELATIONS 3 Credits**

This course underlines the economic bases of the actions and reactions in international politics, drawing attention to international trade, Commercial policy, capital movements, etc. Role of IMF, World Bank, and such Monetary Agencies, Multinational Enterprises, and National power; theory of Unequal Exchange and the North-South dialogue; the Economic theory of National Boundaries, Customs, Union and Currency areas. This course explores the interdependence of states in an increasingly globalized world. It puts in perspective the consensus and conflict that are products of interaction between different regions of the globe (the industrially advanced nations and the third world) as they attempt to allocate and reallocate world economic, technical and industrial resources to certify the needs of their citizens multilateral financial and trade institutions are requisite for allocating world goods. However, one thing this course does is help us think globally while acting locally by behaving like father Abraham who demonstrated his confidence in God by giving Lot first choice of land resources. God responded to Abraham’s faith and assured him that all the land, even what Lot had chosen, would ultimately belong to Abrahams’ descendants.

**PLSC 380: PRACTICUM S/U**

This course is designed for all departmental students to spend a period of two to four months undergoing practical training or internships in institutions and organisations relevant to their study of political science, public administration and law and diplomacy. A certificated foreign language practical training may also be accepted in lieu of this for Political Science and Public Administration students ONLY. Students must meet the requirements and guidelines necessary for satisfactory performance set by the department from time to time.

**FREN 215, 216: INTERMEDIATE FRENCH I, II 6 Credits**

This course involves a review of the French grammar with written and oral practice, readings on life and culture in France, ranging from simplified material to standard authors. Also, the contents of this course include readings on life and culture in Africa.

**PBAD 335: THEORY AND PRACTICE OF ADMINISTRATION 3 Credits**



A survey of the main theories vis-a-vis the basic principles and practices of public administration, problems of organization, administrative processes, authority and leadership. This course will aim to produce leaders like Daniel, so versed in wisdom and administration that the King after studying the administration of Babylon, made Daniel ruler over the whole province and the Chief Prefect over all the wise men in Babylon.

### **PBAD 312: GOVERNMENT AND ADMINISTRATION OF URBAN SYSTEMS**

**3 Credits**

The problems involved in planning and execution of major services in urban political systems, and an examination of the structure of political power operating in such systems. Also understanding the cause of those problems government and citizens are facing when it comes to urban planning which include bad leadership, corrupt practices, lack of maintenance culture and knowing how to tackle these problems majorly by incorporating moral principles like servant leadership, accountability, autonomy and responsibility etc.

### **PBAD 232: NIGERIAN PUBLIC ADMINISTRATION**

**3 Credits**

The main purpose of this course is to familiarize students with the ecology of Nigerian Public Administration, starting with the pre-colonial and the colonial systems of administration. Also having a good understanding of public corporations and their problems, civil service including the various reforms, field administration and the policies of financial administration as well. Students will be more enlightened on the challenges of Nigerian public administration and how it can be overcome by making integrity, accountability, autonomy and responsibility our passion. Accountability is a major issue in Nigerian public administration, and God requires that we are accountable for our actions and use of resources (Matt 25).

### **PBAD 351: DEVELOPMENT ADMINISTRATION**

**3 Credits**

The course will examine the context of development administration; development theories and theories in development administration, development – strategies, public enterprises and development processes, developments at the national, state and local levels. It will also deal with capacity building for management and development (such as administrative and managerial aspects of developments and issues, problems and prospects of development administration in Nigeria. Students will also learn the desired qualities of an administrator in a development context: integrity, prudence, servant leadership, accountability and so on.

### **ILDP 313: DIPLOMATIC AND CONSULAR LAW I**

**3 Credits**

This course is designed to acquaint the students with the evolution of contemporary developments in modern diplomatic practice, focusing on diplomacy as an effective tool of foreign policy by States and diplomatic representation of States at the International Institutions. Second Corinthians tells us that we are ambassadors of Christ to whom He has given the ministry of reconciliation.

### **ILDP 361: MORAL ISSUES IN INTERNATIONAL POLITICS**

**3 Credits**

This course deals with international ethics in international relations which concerns the extent and scope of ethical obligations between states in an era of globalization. Schools of thought include cosmopolitanism and anti-cosmopolitanism. Realism, liberalism and Marxism are

ethical traditions that conceptually address moral issues in international relations. Issues of peace and justice on the global stage are analysed in world politics and every topic is related to biblical injunctions on that area of human endeavour.

## **GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

This is a capstone course for students of Political Science which seeks to bring together the Biblical basis for the various subjects they have been taught in their four-year program. This course advances the notion that God is the Law Giver, Judge and Ruler – in Himself, the legislature, executive and the judiciary. Students will explore the idea that politics, administration and law as explored by philosophers and scholars down the centuries has its basis in natural and divine laws instituted by God. Furthermore, students will review how the theory and practice of politics can inculcate biblical principles such as the humanity of all mankind, the golden rule, servant leadership, autonomy and responsibility, living at peace with all men, the great controversy as the foundation of human conflicts, the imminent judgement of the kings and kingdoms of the earth and the soon coming of the Prince of Peace. Ultimately, students will be encouraged to make a personal commitment to these principles and more in order to carry it through in their professional service after graduation.

## **PLSC 401: POLITICS AND LAW IN AFRICA 3 Credits**

The course is a comparative examination of the interrelationship between law and politics in different African countries by studying the judicial process during the colonial and independence periods. Therefore, the course will focus on the concept of law, separation of powers and checks and balances, the judicial process specifically the systems of criminal justice which translates the abstract concerns of law into concrete institutions, political interference in judicial functions, legal settlement of political disputes, amongst other related topics. Although God is both Lawgiver and Judge, He does not violate His own law throughout history and lays the basis for the exploration of principles of the rule of law, constitutionalism, and checks on the abuse of arbitrary power in African political systems.

## **PLSC 402: STATE AND ECONOMY 3 Credits**

The course, attempt to examine the concept of the state and its economy, bringing out the role of government in the management and organisation of the economy with specific reference to Nigeria and the developing countries of Africa. The course deals with the relationship between government and private enterprise and examines some political issues such as the role of foreign capital in the domestic economy, the question of foreign aid, technology and expatriates. It examines the problem of development planning and administration of development planning while also looking at the indigenization of the economy and self-reliance in the face of problem of dependency on the international economic system. Core values of accountability and integrity are advanced as means of positive government roles in economic development.

## **PLSC 411: CIVIL - MILITARY RELATIONS 3 Credits**

This course addresses one of the fundamental dilemmas of Comparative Politics: what relationship should rightly and goodly exist between the civilian and military realms of society? The course addresses the problem of civil -military relations from a comparative perspective, focusing specifically on the African context for military intervention in politics. This course studies contending paradigms on military role in politics, the impact of social structures on the

military and vice versa, the military-industrial complex, the role of women in war and revolution, the varieties of civilian control of the military and the problems of democratisation for (Africa's) new democracies, and postconflict states. Contemporary challenges in specific African countries will be explored. The Bible does teach that there are different gifts, but one Lord, and that although some might be chosen to lead as military personnel, and others in various civilian capacities, both are interdependent and equally important for the attainment of social goals.

**PLSC 412: NIGERIA FOREIGN POLICY 3 Credits**

This course is intended to enlighten the students concerning the dynamics of Nigeria's foreign policy from independence till date under different political regimes. During the period, students would be able to understand why Nigeria maintains Africa as the center-piece of her foreign policy. The various complications that have emerged in the pursuance of Nigeria's national interest in its relations with other countries by various governments would be examined. The major contemporary challenges which have led to the need for re-focusing of Nigeria's foreign policy such as foreign debt, terrorism and globalization would be explored. Viable suggestions for Nigeria's foreign policy in the 21<sup>st</sup> century would be put forward. Students are taught that state leaders should imbibe the value of servant leadership, transparency, integrity, accountability, team spirit and their watch word, excellence.

**PLSC 430: POLITICS OF INTER-GOVERNMENTAL RELATIONS 3 Credits**

The concepts, model and types of inter-governmental relations, analysis of the various dimensions of governmental relations in Nigeria and selected countries. Emphasis on constitutional, jurisdictional, administrative, fiscal and political aspects, including the outcomes experienced comparatively. the values that will be relevant for this course would be autonomy and responsibility, as applicable to various levels of government to which powers and functions are decentralised or devolved.

**PLSC 431: INTERNATIONAL LAW AND ORGANIZATIONS 3 Credits**

This course addresses two important aspects of the study of international relations: the principles of international law and the role of international organisation(s) in the international political system. Therefore, the course is necessarily divided into these two parts: the first part of this course covers topics such as the meaning and scope of international law, its relationship to municipal law, the sources of international law and selected topics such as diplomatic law, the pacific settlement of international disputes and international law concerning women. The second part of the course entails a detailed study of the background to, structure and organisation of, membership and growth of, objectives and purposes of and relative influence of major international organisations such as the United Nations, African Union, the European Union, Organisation of Petroleum Exporting Countries, Organisation of American States, the Arab League, International Committee of the Red Cross, etc. In a world experiencing the signs of the end of times predicted by Jesus in the Gospels – wars and rumours of war, famine, pestilence, etc – this course is taught from the perspective that the only permanent solution to global problems is the return of the King of Kings and Lord of Lords, the Prince of Peace, Jesus Christ Himself, whose government shall be peace.

**LAWS 422: PRINCIPLES OF ADMINISTRATIVE LAW 3 Credits**

The Course explores the practice and concept of administrative law in Nigeria, which is a direct derivative of the administrative law of England. The course takes root from the fact that God is

the ultimate Lawgiver (Exodus 20) and that laws and constitutions of various countries emanate from Him. It will commence from an introduction of the subject to the constitutional concepts that comprise it: Delegated Legislation; Administrative Adjudication; Judicial Control of Administration and Remedies in Administrative Law will equally be explored. The powers of public institutions and authorities, such as EFCC, ICPC, Federal Character Commission, SSS, etc, (the various decrees and Acts establishing them) and the remedies available to citizens where public officials abuse the powers conferred on them in the exercise of their duties will be examined. Special emphases would be paid to various administrative tribunals and cases in which citizens have sought various judicial remedies against institutions of state. The role and relevance of the public complaints commission (Ombudsman) will also be examined.

**PBAD 431: PUBLIC POLICY MAKING AND ANALYSIS 3 Credits**

Theories of the policy process, contemporary problems in policy formulation, implementation and evaluation concepts and strategies in planning, programming and budgeting, cost effectiveness and cost benefit analysis. Decision making techniques, scientific techniques for evaluating and analyzing public policies. Students are exposed to the fact that public officials should be servant-leaders who see themselves stewards of the people who hold office as a public trust to the benefit of the populace.

**PLSC 442: CONFLICT AND BARGAINING IN INTERNATIONAL RELATIONS**

**3 Credits**

Conflict is now a staple feature of international politics, and has been predicted by Jesus when He spoke of wars and rumours of war in the end times. This course will explore the dynamics of international and intra-state conflict, the types, actors, and prevailing characteristics. The course goes further to explore the common means of attempting a resolution of these conflicts including negotiation, mediation, good offices, arbitration and judicial settlement as well as other evolving tools of international conflict resolution. Current and topical case studies will be examined in the class. Ultimately, the Great Controversy is proposed as the biblical framework for making sense of conflict in international relations, as well as for working towards solutions.

**PLSC 445: GENDER AND POLITICS 3 Credits**

This unique course introduces students to the politics of gender and the gender of politics both in formal and informal spaces. The distinction between sex and gender is explicated, as well as the demystification of other binaries such as the public-private dichotomy. Theories in the field of gender and women's studies will be explored, as well as the historical development of this field of study, the international events that foregrounded women's issues for academic and activist action, African perspectives, local specificities, women's rights as human rights, and various other issues affecting women and men in relation to one another. The foundation for this course is the biblical assurance that in the kingdom of God, there is neither Jew nor Greek, Male nor Female, Slave or Free, but all are one before the Almighty Creator.

**FRCH 331, 332: ADVANCED FRENCH I, II 6 Credits**

This part of the course deals with French vocabulary and idioms in everyday use, combined with pronunciation drills with special emphasis on rhythm and intonation. The course deals with writing idiomatic French with drills on difficult points of grammar.

**PLSC 466: AFRICAN INTERNATIONAL RELATIONS 3 Credits**

This course explores the relations of African peoples and nations with the outside world historically up to the present time. Specific patterns of interaction in precolonial and colonial periods will be explored including the dynamics of trans-Atlantic and Indian Ocean slavery and the creation of an African diaspora. Current challenges and features of postcolonial international relations such as foreign policies, economic dependence, the politics of international organisations, regional organisations, Africa and the West, the US, The EU, Russia, and so on will be explored.

#### **ECON 400: NATIONAL ECONOMIC PLANNING**

**3 Credits**

This course delineates the history and rationale of economic planning, its importance to a nation's welfare and development with the assessment of its initial conditions. The process of planning, the attributes of a good plan and the challenges of planning even in industry, agriculture, foreign trade, investment finance and technology. It as well reviews all Nigeria's national development plans and suggests way out for efficient and effective national economic plan. Christ taught there is need for adequate planning ahead of any major project as he who wants to build a house must first check the costs and be sure he has sufficient resources.

#### **PLSC471: INTERNATIONAL POLITICS OF MASS COMMUNICATION**

**3 Credits**

The course is about the media and communication which has grown as a field of academic inquiry. It is the reflection of the huge impact of globalization on media and communication in which research approaches and agenda are being increasingly politicised and internationalised. The internationalisation of higher education, with the changing profile of students and researchers which has brought much greater mobility and interaction among the academic community, has further strengthened the international dimensional of the politics of media, culture and mass communication. The flow of communication and information dissemination across great distances has been a catalyst for many changes in human relationships. Through a variety of mediated technologies, the cumulative effect of these changes was a redefinition of space and time, and increasing immediacy and transparency in global connections (Olsen, 1999). In essence, the study of the course will help build up students in knowing how information dissemination and communication could be used to achieving excellence, integrity, autonomy and responsibility in the leadership positions they find themselves.

#### **PLSC 480: DEFENCE AND STRATEGIC STUDIES**

**3 Credits**

Survey of the fields of defence and strategic studies from pre-and inter-Cold War period to the post-Cold War era; observed paradigmatic shift in the subjects of study until now focused upon, and major factors accounting to this; changing nature of security and its re-definition in the post-Cold War era; identification, enumeration, and analysis of the new sources and concerns about security internationally; a note about what today is known as Critical Security Studies as new field, and in what ways similar to or different from Strategic Studies as traditionally understood. The Bible reference for this course is Numbers 13 which deals with how the Israelites resorted to broad strategic intelligence, and obtained a comprehensive picture when their objective was settlement of the land. Tactical intelligence was gathered by reconnaissance units and spies. There is frequent reference in the Old Testament to "sending spies," but this clause should more correctly be translated as "dispatching a reconnaissance unit before an operation" Joshua chapter 2 is also referenced. In all, the course teaches that God is our Refuge and Strength, the only Very Present Help for peoples and nations in time of trouble.

**ILDP 417: INTERNATIONAL HUMAN RIGHTS LAW                      3 Credits**

This is the body of law designed to promote and protect human rights at the international, regional, and domestic levels. As a form of international law, international human rights law is primarily made up of treaties, agreements between states intended to have binding legal effect between the parties that have agreed to them; and customary international law, rules of law derived from the consistent conduct of states acting out of the belief that the law required them to act that way. The basis for international human rights is taught to be the biblical foundation that with God, there is neither Jew nor Greek, male nor female, slave or free, but all are children of God.

**ILDP 456: INTERNATIONAL REFUGEE LAW                                      3 Credits**

Refugee law is the branch of international law which deals with the rights and protection of persons who have to flee their country of origin because of individual persecution, human rights abuses, membership of a particular social group and political instability, and have to seek refuge from another state. Issues related to the relationship between international refugee law, international humanitarian law and international human rights law will be addressed; definition of a refugee, refugee status determination, *refoulement* and asylum policies of various countries and the EU, qualification for cessation of refugee status, dynamics of repatriation, local integration or naturalisation and third country (re)settlement will be discussed as well as the human rights of refugees wherever they may find themselves. The laws of Moses contain specific directives by God to us about how to treat the strangers in our midst and these will be explored in this class.

**ILDP 473: INTERNATIONAL HUMANITARIAN LAW                      3 Credits**

The Law of Armed Conflict, also known as the Laws of War or more contemporarily, International Humanitarian Law examines the rules of international law regarding the conduct of war. Students will explore the origin and development of this branch of international law, the treaties that make up the law, the application of the law over time and in different conflicts, distinction between IHL and human rights law, distinction between international and internal armed conflicts, the efforts at limiting civilian casualties in war, the treatment of prisoners of war, the role of arms non-proliferation agreements, the limitations on the weapons of war, the organisations involved in applying the rules of IHL, especially the International Committee of the Red Cross, issues considered crimes against humanity and war crimes, current issues and cases in the news, and other related topics. Biblical injunctions relating to the treatment of one's "enemies" which are to be found in the Laws of Moses and in the Gospels will be relevant justifications for the principles that will be taught in this course.

**PLSC 490: RESEARCH PROJECT    6 Credits**

This research project is designed to allow students to embark upon independent research in such fields and on such topics as may be agreed upon between the student and his or her instructor/supervisor and as approved by the department. Integrity, excellence and accountability are the watchwords for this endeavour.

**B.Sc. (Hons) POLITICAL SCIENCE (INTERNATIONAL LAW AND DIPLOMACY)**  
**100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 112	Health Principles	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
	<b>CORE COURSES</b>		

LAWS 105	Introduction to Law	3	-
ILDP 121	Introduction to International Relations and Diplomacy	3	-
PLSC 112	Nigerian Constitutional Development	-	3
ILDP 124	State and Citizenship Law	-	3
PLSC 100	Introduction to Political Science	3	-
PBAD 142	Introduction to Sociology and Anthropology	-	3
FREN 131	Elementary French I	3	-
FREN 132	Elementary French II	-	3
	<b>TOTAL (41 Credits)</b>	<b>22</b>	<b>19</b>

**B.Sc.(Hons) POLITICAL SCIENCE (INTERNATIONAL LAW AND DIPLOMACY)  
200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agriculture	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
GEDS 260	Environmental and Sustainable Development	2	-
GEDS 280	Leadership Skills	-	2
GEDS 270	Peace and Conflict Resolution		2
	<b>CORE COURSES</b>		
ILDP 201	General Principles of International Law	3	-



ILDP 221	Constitutional Law	3	-
PLSC 230	History of Political Thought	3	-
ILDP 234	Structure of Nigerian Foreign Service	-	3
PBAD 201	Principles of Management	3	
PLSC 200	Nigerian Government and Politics	-	3
PLSC 220	Statistical Methods in the Social Sciences	-	3
PLSC 232	Logic and Scientific Reasoning	-	3
PLSC 231	Introduction to Comparative Politics	3	
ECON 100	Principles of Economics	-	3
FREN 215	Intermediate French I	3	-
FREN 216	Intermediate French II	-	3
ILDP 290	French Language Practicum	-	0
	<b>TOTAL (49 Credits)</b>	<b>25</b>	<b>24</b>

**B.Sc. (Hons) POLITICAL SCIENCE (INTERNATIONAL LAW AND DIPLOMACY)**  
**300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family life Education	-	2
GEDS 310	E-Customer Relations Management	-	2
	<b>CORE COURSES</b>		
ILDP 313	Diplomatic and Consular Law I	3	-
ILDP 314	Diplomatic and Consular Law II	-	3
ILDP 315	Law of International Institutions	3	-
ILDP 338	Law of Intellectual Property	-	3

ILDP 361	Moral Issues in International Politics	3	-
PLSC 300	Research Methodology	-	3
PLSC 310	Comparative Politics	3	---
PLSC 340	Theories of International Relations	-	3
PLSC 350	Contemporary Political Analysis	-	3
PLSC 365	Globalization and Politics of Development	3	-
	<b>*ELECTIVE COURSES</b>		
ILDP 312	International Environmental Law	-	3
ILDP 334	International Trade Law	-	3
ILDP 345	International Boundaries and Immigration Law	3	-
ILDP 352	Politics of Western Europe and America	-	3
ILDP 385	Oil and Gas in World Politics	3	-
PLSC 322	Political Behaviour	-	3
PLSC 353	Religion and Politics	3	-
PLSC 371	Theory and Practice of Marxism	3	-
PLSC 396	Politics of International Economic Relations	-	3
	<b>TOTAL (43 Credits)</b>	<b>21</b>	<b>22</b>

**\*Students are to choose one elective only in each semester.**

**B.Sc. (Hons) POLITICAL SCIENCE (INTERNATIONAL LAW AND DIPLOMACY)  
400 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	<b>0</b>	<b>0</b>
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	---
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
ILDP 417	International Human Rights Law	3	-

ILDP 432	Arbitration	-	3
ILDP 448	International Administrative Law	-	3
ILDP 473	International Humanitarian Law	3	-
PLSC 412	Nigeria Foreign Policy	-	3
PLSC 445	Gender and Politics	3	-
PLSC 480	Defense and Strategic Studies	3	-
ILDP 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
ILDP 404	International Civil Litigation	-	3
ILDP 420	Alternative Dispute Resolution	3	-
ILDP 456	International Refugee Law	-	3
ILDP 461	International Personnel Administration	3	-
ILDP 463	Politics of Francophone Africa	3	-
ILDP 491	International Maritime Law	3	-
PLSC 411	Civil-Military Relations	3	-
PLSC 442	Conflict and Bargaining in International Relations	-	3
PLSC 466	African International Relations	-	3
PLSC 471	International Politics of Mass Communication	3	-
	<b>TOTAL (40 Credits)</b>	<b>19</b>	<b>21</b>

**\*Students are to choose one elective only in each semester.**

## **INTERNATIONAL LAW AND DIPLOMACY COURSE DESCRIPTIONS**

### **PLSC 100: INTRODUCTION TO POLITICAL SCIENCE 3 Credits**

The course is a compulsory course for 100 level students of Political Science, International Law and Diplomacy, and Public Administration. The goal is to introduce the students to the rudiments of the discipline by applying Christian principles with the hope of inculcating in them values that will bring about positive changes in society. This entails an understanding of the concepts of politics, political science, and the status of the discipline as an art or science. It will further focus on various approaches to the study of political science, concepts such as the state, government, power, authority and influence, forms and organs of government, constitution and constitutionalism as well as rule of law and separation of power; amongst others.

### **LAW 105: INTRODUCTION TO LAW 3 Credits**

This course will introduce the meaning, nature and scope of Law as it relates to the concept of morality, justice and religion to the students. The Babcock core value of morality, accountability will be emphasized and reference will be made to the Ten Commandments found in Exodus 20.

**PLSC 112: NIGERIAN CONSTITUTIONAL DEVELOPMENT 3 Credits**

Compulsory course for 100 level students of Political Science, International Law and Diplomacy and Public Administration with a view to introducing them to the rudiments of the historical journey of constitutional and political development in Nigeria. The course is to be taught in line with Babcock Biblical perspective by enabling students to appreciate the presence and support of God in the historical journey of Nigeria. This course entails the understanding of basic concepts such as politics, constitution, constitutionalism, colonialism and nationalism among others. It covers a period between 1861 up to the present day with emphasis on such aspects as pre-colonial relationship, indirect rule, Clifford, Richards, Macpherson Constitutions and various other constitutions and amendments between 1960 and the present time and the effect on democratic culture in Nigeria as well as the role of the military in constitution making.

**ILDP 121: INTRODUCTION TO INTERNATIONAL RELATIONS AND DIPLOMACY  
3 Credits**

The course introduces students to the meaning and scope of International relations, sources of international law, forms of interactions between and among nation states, diplomacy, power, conflict, terrorism, peace keeping etc., as well as distinction between international relations, international system and international politics. Godly principles of peaceful resolution of disputes will be emphasized and reference will be made to Eps. 4:29.

**ILDP 124: STATE AND CITIZENSHIP LAW 3 Credits**

Examines international and national law relating to the nature of the duties and obligations of states and of citizens; Nature of strained relations and processes of rectification, freedom, loyalty and patriotism. Students are taught that our citizenship is in heaven, if we have accepted Christ as our Lord and Saviour, and He has also taught us to give to Caesar what is Caesar's and to God, what is God's.

**PBAD 142: INTRODUCTION TO SOCIOLOGY AND ANTHROPOLOGY 3 Credits**

The purpose of this course is to provide the students with basic ideas and knowledge in sociology and anthropology which as to do with social structure and man and its environment. By the introduction of this course, it is believed that students will be able to understand and appreciate the basic issues like social class conflict, social dynamism, socialization (etc.), principles like integrity, team spirit, servant leadership, (etc.) in order to be able to overcome various challenges the society might pose to them. Also, approaches of sociology and anthropology in order to relate well wherever they find themselves. Students may also gain an indirect benefit of appreciating the social, cultural, and behavioural dimensions of the human beings in the society. We are social beings that emanated from the first man and woman (Adam and Eve, Gen 1&2). There is need for mutual coexistence as we are of one family, the family of God (Luke 3:38) regardless of our colour, nationality or race.

**FREN 131, 132: ELEMENTARY FRENCH I, II 6 Credits**

The study is on the basic structure of the French language, paying careful attention to the oral as well as the written aspects of the language in an organised sequence.

**PLSC 200: NIGERIAN GOVERNMENT AND POLITICS****3 Credits**

The course traces the chronicle of the Nigerian state; the nature of politics prior to amalgamation, colonial system of government and its manifold effects, the arguable selfless and servant leadership efforts of foremost nationalists, as well as the post-colonial administration of Nigeria. The course also examines, more specifically, the old challenges of constitutional amendments, emergence of political parties, and more recently displacement, terrorism, and the age long menace of corruption, highlighting the biblical perspectives to these issues.

**ILDP 201: GENERAL PRINCIPLES OF INTERNATIONAL LAW****3 Credits**

The course attempts to acquaint students with a detailed description and understanding of various principles of international law, the meaning, nature and scope of International Law including the sources, subjects and the jurisdictions of these subjects as well as concepts such as recognition and its legal effects, state immunity, law relating to wars, treaties, diplomatic practices, human rights laws, environmental law, economic and law of the sea, their significance to the study of political science; changing nature of security and its re-definition. Students would be encouraged to have a firm grip of different approaches in this course. Details description of law and functions of politics in the world community, theoretical issues as positivism and naturalism and Communist approaches to international law. Foundation for analysis will be the laws of God in Exodus 20.

**PBAD 201: PRINCIPLES OF MANAGEMENT****3 Credits**

Principles of Management is a comprehensive introductory course to the students' on the management process from a manager's perspective. It emphasizes the skills, competencies, techniques and knowledge needed to successfully manage an organization. It focuses on the entire organization from both a short and long-term basis. The course also focuses the manager's strategic vision, setting objectives, crafting a strategy and then implementing it. To aspire to leadership is an honorable ambition. (I Timothy 3:1) "Management" is another word for "stewardship." "Stewards," or "managers," are responsible over something entrusted to them by someone else. Management is the process of accomplishing God's purposes and plans through proper use of human, material, and spiritual resources.

**ILDP 221: CONSTITUTIONAL LAW****3 Credit**

This course examines the meaning, types and various concepts related to the law of constitutions such as the rule of law; separation of powers, parliamentary privileges and judicial review of administrative and legislative actions, and so on. Reference will be made to laws of God in Exodus and Leviticus and the Gospels in the Bible.

**PLSC 230: HISTORY OF POLITICAL THOUGHT****3 Credits**

A critical survey of classical and medieval political thought with focus on Plato, Aristotle, Cicero, St. Thomas Aquinas, Machiavelli, Jean Bodin, Mill, Marx, Fanon etc. their basic (pre-occupation) with and conception of political thought and method of political analysis.

**PLSC 220: STATISTICAL METHODS IN THE SOCIAL SCIENCES****3 Credits**

This course focuses on basic items in descriptive, analytic, inferential and predictive statistics, measures of central tendencies, logic and technique of Chi – Square, Correlation and Regression, Analysis of variance, ANOVA, and other statistical methods. The course is an affirmation of the precise order and logic that the Creator God used to lay the foundation of the natural world.

**PLSC 231: INTRODUCTION TO COMPARATIVE POLITICS 3 Credits**

The course examines comparison as the basis of scientific knowledge in political science. It explores the government and politics of developed and developing nations from a comparative perspective of indices such as systems of government, economic prosperity, social welfare, international influence, and so on. The ultimate standard for evaluating the progress of nations will be biblical.

**PLSC 232: LOGIC AND SCIENTIFIC REASONING 3 Credits**

The Course explores the fundamentals of logic and scientific reasoning. Direct students to the fact that God the author of wisdom also requires us to follow the right principles and techniques of living to enjoy abundant life here on earth and eternity with Him. This has become very pertinent in the present millennium as people increasingly degenerate into reflectors of other peoples thoughts instead of engaging in tasking inquiry that leads to development of ideas and philosophies that have the potential of positively transforming the world. It will commence with basic understanding of what logic means and the elementary concepts; it will proceed to examine deduction and induction as well as valid and invalid arguments. An exploration of different types of fallacies in arguments; Exposition of the relevance of categorical syllogism; use of symbols and language, will open up the comprehensive inquiry into the understanding of techniques, approaches/methodologies of conducting scientific inquiry in the 21<sup>st</sup> Century. The holistic education approach of Babcock university will be referenced.

**ILDP 234: STRUCTURE OF NIGERIAN FOREIGN SERVICE 3 Credits**

The course is a compulsory course for 200 level students of International Law and Diplomacy. The goal is to introduce the students to the working of the Nigerian Foreign Service and through Christian principles show how the services could be improved upon. The course will focus on the growth of the Ministry of Foreign affairs from 1957 to date, the structure, departments, relevance of the ministry in the conduct of affairs of the service and the relationship between the ministry and the foreign services. In addition, the course will discuss the measures to be adopted to reposition the ministry in an era when the image of the nation is battered. It will further discuss the organization of an embassy, diplomacy, diplomats and diplomatic immunities as well as organization of foreign services, the environment, challenges and the way forward. Just like any other services or assignment, Bible reference relevant here are those that encourage people to carry out their assignments honestly, with integrity and excellence of spirit such as in Col. 3: 23.

**ECON 100: PRINCIPLES OF ECONOMICS 3 Credits**

An introduction to the various issues in economics: the nature of economic science, the methodology of economics, major areas of specialization in economics, elementary principles of micro and macro-economics, historical development of economic ideas, theory of demand and supply, current issues of interest in economics and probably future developments. The parable of the talents told by Jesus is a basis for the principles of economic management that will be taught in this course.

**FREN 215, 216: INTERMEDIATE FRENCH I, II 6 Credits**

This course involves a review of the French grammar with written and oral practice, readings on life and culture in France, ranging from simplified material to standard authors. Also, the contents of this course include readings on life and culture in Africa.

**ILDP 290: FRENCH LANGUAGE PRACTICUM 0 Credit**

This course is designed to mandate student's practical application of their French class lessons in order to position them for relevance in the future as international personnel and diplomats. Therefore, they are required to spend a minimum of two months undergoing practical lessons at the French Village in Badagry, Lagos, or in Paris, France, or some other international location where French is the first language and they are able to undergo a period of formal/structured practical training in mastering the language. Success in this practicum is subject to meeting other specific expectations and guidelines relating to the practicum as may be set by the department from time to time.

**ILDP 312: INTERNATIONAL ENVIRONMENTAL LAW 3 Credits**

Environmental laws are the standards that governments establish to manage natural resources and environmental quality. The broad categories of "natural resources" and "environmental quality" include such areas as air and water pollution, forests and wildlife, hazardous waste, agricultural practices, wetlands, and land use planning. Students will be taught that the basis for this subject is God's instruction to Adam in the Garden of Eden that he had been given dominion over everything God has made to work and to care for.

**ILDP 313: DIPLOMATIC AND CONSULAR LAW I 3 Credits**

This course is designed to acquaint the students with the evolution of contemporary developments in modern diplomatic practice, focusing of diplomacy as an effective tool of foreign policy by States and diplomatic representation of States at the International Institutions. Second Corinthians tells us that we are ambassadors of Christ to whom He has given the ministry of reconciliation.

**ILDP 314: DIPLOMATIC AND CONSULAR LAW II 3 Credits**

This is part II of the course and it deals with today's trends in diplomatic practice and the role of international ADR, pacific settlement of disputes and the use of coercive diplomacy in Foreign Service; circumstances capable of precipitating diplomatic withdrawal of service or recall, persona grata and persona non grata (unacceptable) clauses, between and amongst States in international diplomatic relations, with case-citations. Integrity value of Babcock will be referenced.

**ILDP 315: LAW OF INTERNATIONAL INSTITUTIONS 3 Credits**

This course explores international law relating to the creation, functioning, membership, powers, influence and politics of international institutions such as the United Nations, the African Union, the European Union, the Economic Community of West African States, and others, especially in the areas of governance, peace and security and development. This will be discussed in light of natural and divine laws which have shaped the thinking of international law experts over the years.

**ILDP 334: INTERNATIONAL TRADE LAW 3 Credits**

Course treats the legal aspects of the development of world economy, legal regulation of world trade, world monetary law, mineral resources in international economic law, transfer of technology issues, foreign investment, expropriation and world economic order, and many other

related topics. One of the commands God gave Adam was to be fruitful and multiply; everything He provided on earth was to be prudently used in accountable, responsible and honest ways.

**ILDP 338: LAW OF INTELLECTUAL PROPERTY 3 Credits**

Covers topics related to the law of copyrights and confidential information, the Patent Rights Law, the TRIPS agreement, piracy and counterfeiting; the nature of copyright; the implication of new technology on copyright and the international environment; the exploitation and protection of ownership exclusive rights; industrial property, trademark, patents and industrial designs; and so on. Integrity is the Babcock core value that will permeate the discussion of all topics in this course.

**ILDP 345: INTERNATIONAL BOUNDARIES AND IMMIGRATION LAW 3 Credits**

Boundaries in a political sense, is the line demarcating recognized limits of established political units such as states. Under international law, a boundary may be delimitation by a treaty and demarcated by a legally constituted commission. Boundaries are sacrosanct. Nigeria is presently sharing borders with Niger Republic to the North Lake Chad and Chad Republic to the North East, Cameroun Republic to the East, the Gulf of Guinea to the South and Benin Republic to the West. The Gulf of Guinea introduces her to the Atlantic Ocean and makes her a maritime state under the United Nations convention on the Law of the Sea. Nigeria shares both land and maritime boundaries with her neighbours. International boundary law covers land, maritime and air. Activities go on the borders of Nigeria which may have, social economic security and legal implications. It is necessary therefore that borders must be properly manned and controlled through the instrument of law. In Nigeria, immigration law, 2015, border control Act and immigration Regulation Act 2017, regulate movement across borders. *“Thou shalt not remove thy neighbour’s Landmark, which they of old time have set in thine inheritance, which thou shalt inherit in the land that the lord thy God giveth thee to possess it”*. Deuteronomy 19:14 (KJV). *“Remove not the ancient Landmark, which thy fathers have set.”* Proverbs 22:28 (KJV)

**ILDP 352: POLITICS OF WESTERN EUROPE AND AMERICA 3 Credits**

An examination of the political ideas, political systems and processes of Western European governments and the United States.

**ILDP 361: MORAL ISSUES IN INTERNATIONAL POLITICS 3 Credits**

This course deals with international ethics in international relations which concern the extent and scope of ethical obligations between states in an era of globalization. Schools of thought include cosmopolitanism and anti-cosmopolitanism. Realism, liberalism and Marxism are ethical traditions that conceptually address moral issues in international relations. Issues of peace and justice on the global stage are analysed in world politics and every topic is related to biblical injunctions on that area of human endeavour.

**ILDP 385: OIL AND GAS IN WORLD POLITICS 3 Credits**

This course encompasses the origin and occurrence of oil and natural gas; the theories of ownership in oil and gas; United Nations and natural resources management; interests in oil and gas concession; effect of rights of concessionaries on natural gas; exploration of rights in oil and gas; oil and gas pipelines – nature, legal status, conditions for grants, rights and obligations of the licenses, and so on. Students are reminded that the earth is the Lord’s and in the fullness



thereof; He owns the cattle on a thousand hills, including the oil and gas deposits and thus they must be responsibly managed.

**PLSC 300: RESEARCH METHODOLOGY 3Credits**

This course examines research methodology concept, types of research methods, and approaches to research. This course will provide an opportunity for participants to establish or advance their understanding of research through critical exploration of research language, ethics, and approaches. The course introduces the language of research, ethical principles and challenges, and the elements of the research process within quantitative, qualitative, and mixed methods approaches. Participants will use these theoretical underpinnings to begin to critically review literature relevant to their field or interests and determine how research findings are useful in informing their understanding of their environment (work, social, local, global). Proverbs 25:2. It is the glory of God to conceal things, but the glory of kings is to search things out. 1 John 4:1. Beloved, do not believe every spirit, but test the spirits to see whether they are from God, for many false prophets have gone out into the world. Proverbs 19:2. Desire without knowledge is not good, and whoever makes haste with his feet misses his way.

**PLSC 310: COMPARATIVE POLITICS 3 Credits**

The scope, basic concepts and theories associated with comparative politics, systems, structural functional, elite, modernization, power, Marxist and other theories compared and related to countries as they are affected. Various political systems are compared and contrasted on the basis of distribution of power and authority, electoral systems, local government systems, constitutions, social and economic organization, and so on. The model to be used in evaluating these systems will be the principles of the kingdom of heaven as taught by Jesus in the Gospels.

**PLSC 322: POLITICAL BEHAVIOUR 3 Credits**

Cornerstone Political Science course which studies the methodological revolution that occurred in the discipline in the mid-twentieth century. It includes the study and measurements of various determinants of political behaviour, political socialization, political culture, political participation and apathy. Christ taught that those in authority should be respected and taxes paid to the governing or ruling authority. There were laid down procedures for selection of Elders and deacons to lead the church. Electoral behaviour, voter turnout, political parties and party systems, public opinion, and political communication and various forms of political apathy and alienation will be explored. The various institutions that govern behaviour of people within the political system such as pressure groups and labour movements would be examined.

**PLSC 340: THEORIES OF INTERNATIONAL RELATIONS 3 Credits**

Introduces students to the major paradigms and theories that have framed the practice and study of international relations over the centuries. These may include, and are not limited to: theories of balance of power, idealism, liberalism, realism, neo-liberalism, neo-realism, neo-Marxist theories, dependency theories, World Systems theory, functional integration theory, Critical theory, constructivism, feminism, postmodernism, social movement theory, human rights theory, theories of war and of peace, and so on. The brother/sisterhood of all men and women, nations, tongues and people, as taught by the Bible, and the lordship of Jesus as the Prince of Peace will underline discussion of the various theories studied under this course.

**PLSC 350: CONTEMPORARY POLITICAL ANALYSIS 3 Credits**

It introduces students to the various analytical approaches in political science. While paying attention to biblical principles of knowledge production, acquisition and evaluation, the course examines systems analysis and models, structural functionalism, group and elite theories, political economy, political culture, games theory, behaviouralism and distributive analysis, amongst others. The course is aimed at exposing students to critically view political activities, comment and analyze actions and inactions of decision makers, events and occurrences at all levels, be it local, national and international. Babcock core values of autonomy and responsibility becomes relevant here, accountability, integrity, excellence, are all virtues that an analyst must have and uphold in order to analyze phenomenon or issues objectively. As an analyst of political events or reporter of political activities we are accountable and responsible for our actions or analysis because posterity will judge us all.

**PLSC 353: RELIGION AND POLITICS 3 Credits**

This important course explores the nexus between religion and politics that has historically existed in every country of the world, as well as the current manifestations of this interrelationship. The course serves two main purposes: first, it covers the various intersections between religious and belief systems and the practice of politics in Nigeria, Africa and the world over, including the implications for governance, peace, and development; secondly, it aims to integrate faith perspectives in the overall experience of students in the department as they contemplate different subjects and even as they ponder their future paths.

**PLSC 365: GLOBALIZATION AND POLITICS OF DEVELOPMENT 3 Credits**

This course foregrounds globalization, its theories and dynamics, as a force in the development of countries of the global south. Theories of development, growth and expansion of globalisation historically, features of globalization, politics and development, the politics of debt, foreign aid, dependency, underdevelopment, de-development, the institutions and instrumentalities of global development discourse and practice, and related topics will be explored. The course will explore how the increase in knowledge and men “running to and fro” predicted in the Bible by Daniel has implications for the welfare of human beings loved by God.

**PLSC 371: THEORY AND PRACTICE OF MARXISM 3 Credits**

The course is an examination of dialectical materialism, class analysis, means and modes of production in society. Also, the course will focus on the overview of revolutionary changes brought by utilizing the Marxist – Leninist ideology, using the examples of USSR, China, Cuba, Vietnam, etc. These ideas are evaluated in light of Jesus’ teachings both about being our brother’s keeper and seeking first the kingdom of God.

**PLSC 396: POLITICS OF INTERNATIONAL ECONOMIC RELATIONS 3 Credits**

This course underlines the economic bases of the actions and reactions in international politics, drawing attention to international trade, Commercial policy, capital movements, etc. Role of IMF, World Bank, and such Monetary Agencies, Multinational Enterprises, and National power; theory of Unequal Exchange and the North-South dialogue; the Economic theory of National Boundaries, Customs, Union and Currency areas. This course explores the interdependence of states in an increasingly globalized world. It puts in perspective the consensus and conflict that are products of interaction between different regions of the globe (the industrially advanced nations and the third world) as they attempt to allocate and reallocate world economic, technical and industrial resources to certify the needs of their citizens multilateral financial and trade

institutions are requisite for allocating world goods. However, one thing this course does is help us think globally while acting locally by behaving like father Abraham who demonstrated his confidence in God by giving Lot first choice of land resources. God responded to Abraham's faith and assured him that all the land, even what Lot had chosen, would ultimately belong to Abrahams' descendants.

### **PLSC 380: PRACTICUM**

**0 Credit**

This course is designed for all departmental students to spend a period of two to four months undergoing practical training or internships in institutions and organisations relevant to their study of political science, public administration and law and diplomacy. They must meet the requirements and guidelines necessary for satisfactory performance set by the department from time to time.

### **PLSC 411: CIVIL-MILITARY RELATIONS**

**3 Credits**

This course addresses one of the fundamental dilemmas of Comparative Politics: what relationship should rightly and goodly exist between the civilian and military realms of society? The course addresses the problem of civil-military relations from a comparative perspective, focusing specifically on the African context for military intervention in politics. This course studies contending paradigms on military role in politics, the military-industrial complex, the impact of social structures on the military and vice versa, the role of women in war and revolution, the varieties of civilian control of the military and the problems of democratisation for (Africa's) new democracies, and post-conflict states. Contemporary challenges in specific African countries will be explored. The Bible does teach that there are different gifts, but one Lord, and that although some might be chosen to lead as military personnel, and others in various civilian capacities, both are interdependent and equally important for the attainment of social goals.

### **PLSC 412: NIGERIA FOREIGN POLICY**

**3 Credits**

This course is intended to enlighten the students concerning the dynamics of Nigeria's foreign policy from independence till date under different political regimes. During the period, students would be able to understand why Nigeria maintains Africa as the center-piece of her foreign policy. The various complications that have emerged in the pursuance of Nigeria's national interest in its relations with other countries by various governments would be examined. The major contemporary challenges which have led to the need for re-focusing of Nigeria's foreign policy such as foreign debt, terrorism and globalization would be explored. Viable suggestions for Nigeria's foreign policy in the 21<sup>st</sup> century would be put forward. Students are taught that state leaders should imbibe the value of servant leadership, transparency, integrity, accountability, team spirit and their watch word, excellence.

### **ILDP 448: INTERNATIONAL ADMINISTRATIVE LAW**

**3 Credits**

The course explores the practice and concept of administrative law in Nigeria, which is a direct derivative of the administrative law of England. The course takes root from the fact that God is the ultimate law giver (Exodus 20) and that laws and constitutions of various countries emanate from it. It will commence from an introduction of the subject to the constitutional concepts that comprise it. Delegated Legislation; Administrative Adjudication; Judicial Control of Administration and Remedies in Administrative Law will equally be explored. The powers of public institutions and authorities, such as EFCC, ICPC, Federal Character Commission, SSS, etc, (the various decrees and Acts establishing them) and the remedies available to citizens where

public officials abuse the powers conferred on them in the exercise of their duties will be examined. Special emphases would be paid to various administrative tribunals and cases in which citizens have sought various judicial remedies against institutions of state. The role and relevance of the public complaints commission (Ombudsman) will be examined.

**PLSC 445: GENDER AND POLITICS**

**3 Credits**

This unique course introduces students to the politics of gender and the gender of politics both in formal and informal spaces. The distinction between sex and gender is explicated, as well as the demystification of other binaries such as the public-private dichotomy. Theories in the field of gender and women's studies will be explored, as well as the historical development of this field of study, the international events that foregrounded women's issues for academic and activist action, African perspectives, local specificities, women's rights as human rights, and various other issues affecting women and men in relation to one another. The foundation for this course is the biblical assurance that in the kingdom of God, there is neither Jew nor Greek, Male nor Female, Slave nor Free, but all are one before the Almighty Creator.

**ILDP 473: INTERNATIONAL HUMANITARIAN LAW**

**3 Credits**

The Law of Armed Conflict, also known as the Laws of War or more contemporarily, International Humanitarian Law examines the rules of international law regarding the conduct of war. Students will explore the origin and development of this branch of international law, the treaties that make up the law, the application of the law over time and in different conflicts, distinction between IHL and human rights law, distinction between international and internal armed conflicts, the efforts at limiting civilian casualties in war, the treatment of prisoners of war, the role of arms non-proliferation agreements, the limitations on the weapons of war, the organisations involved in applying the rules of IHL, especially the International Committee of the Red Cross, issues considered crimes against humanity and war crimes, current issues and cases in the news, and other related topics. Biblical injunctions relating to the treatment of one's "enemies" which are to be found in the Laws of Moses and in the Gospels will be relevant justifications for the principles that will be taught in this course.

**ILDP 417: INTERNATIONAL HUMAN RIGHTS LAW**

**3 Credits**

This is the body of law designed to promote and protect human rights at the international, regional, and domestic levels. As a form of international law, international human rights law is primarily made up of treaties, agreements between states intended to have binding legal effect between the parties that have agreed to them; and customary international law, rules of law derived from the consistent conduct of states acting out of the belief that the law required them to act that way. The basis for international human rights is taught to be the biblical foundation that with God, there is neither Jew nor Greek, male nor female, slave or free, but all are children of God.

**ILDP 420: ALTERNATIVE DISPUTE RESOLUTION (ADR)**

**3 Credits**

This course exposes students to the knowledge of alternative mechanisms for dispute resolution. It helps students appreciate the increasing popularity and relevance of alternative dispute resolution mechanisms; guides students about how to identify disputes that will benefit from ADR, skills and processes relevant to this medium, and so on. The course is intended to be very practical and serves as preparation for the second semester course in Arbitration. Jesus admonished his disciples that it is better to settle your quarrel with your brother at home before

he takes it to the judge and it becomes impossible to convince the judge in your favour. This course directly teaches students how they may put this into practice and use it to help other people too.

**ILDP 432: ARBITRATION**

**3 Credits**

This course is specialised in teaching the principles, models, processes and uses of arbitration as an important tool of alternative dispute resolution. Ideally, students should have taken ILDP 420 ADR in order to fully benefit from this course. The emphasis is on learning practical skills which may even form the start of an alternative profession.

**PLSC 480: DEFENSE AND STRATEGIC STUDIES**

**3 Credits**

Survey of the fields of defense and strategic studies from pre-and inter-Cold War period to the post-Cold War era; observed paradigmatic shift in the subjects of study until now focused upon, and major factors accounting to this; changing nature of security and its re-definition in the post-Cold War era; identification, enumeration, and analysis of the new sources and concerns about security internationally; a note about what today is known as Critical Security Studies as new field, and in what ways similar to or different from Strategic Studies as traditionally understood. The Bible reference for this course is Numbers 13 which deals with how the Israelites resorted to broad strategic intelligence, and obtained a comprehensive picture when their objective was settlement of the land. Tactical intelligence was gathered by reconnaissance units and spies. There is frequent reference in the Old Testament to "sending spies," but this clause should more correctly be translated as "dispatching a reconnaissance unit before an operation" Joshua chapter 2 is also referenced. In all, the course teaches that God is our Refuge and Strength, the only Very Present Help for peoples and nations in time of trouble.

**ILDP 490: RESEARCH PROJECT**

**6 Credits**

This research project is designed to allow students to embark upon independent research in such fields and on such topics as may be agreed upon between the student and his or her instructor/supervisor and as approved by the department. Integrity, excellence and accountability are the watchwords for this endeavour.

**ILDP 404: INTERNATIONAL CIVIL LITIGATION**

**3 Credits**

International litigation (sometimes called "transnational litigation") is the practice of litigation in connection with disputes among businesses or individuals residing or based in different countries. The main difference between international litigation and domestic litigation is that, in the former, certain issues are more likely to be of significance — such as personal jurisdiction, service of process, evidence from abroad, and enforcement of judgments. Jesus's injunctions relating to settling disputes with your brother before he takes you to the judge will be the prescriptive approach adopted by this course.

**PLSC 442: CONFLICT AND BARGAINING IN INTERNATIONAL RELATIONS**

**3 Credits**

Conflict is now a staple feature of international politics, and has been predicted by Jesus when He spoke of wars and rumours of war in the end times. This course will explore the dynamics of international and intra-state conflict, the types, actors, and prevailing characteristics. The course goes further to explore the common means of attempting a resolution of these conflicts including negotiation, mediation, good offices, arbitration and judicial settlement as well as other evolving

tools of international conflict resolution. Current and topical case studies will be examined in the class. Ultimately, the Great Controversy is proposed as the biblical framework for making sense of conflict in international relations, as well as for working towards solutions.

**ILDP 463: POLITICS OF FRANCOPHONE AFRICA 3 Credits**

The course will focus on the political dynamics of the fourteen countries in west and equatorial Africa that formed the heart of what was once France's African colonial empire. Even though all the countries are independent now, they still retain French as an official language, remain attached to French culture, and maintain political links with France. The political evolution of these countries, exploring the elements that have shaped their particular political dynamics while allowing them to remain part of a unique francophone socio-political community will form content of the course. BU core values of servant leadership, autonomy and responsibility will be the guiding framework here.

**ILDP 456: INTERNATIONAL REFUGEE LAW 3 Credits**

Refugee law is the branch of international law which deals with the rights and protection of persons who have to flee their country of origin because of individual persecution, human rights abuses, membership of a particular social group and political instability, and have to seek refuge from another state. Issues related to the relationship between international refugee law, international humanitarian law and international human rights law will be addressed; definition of a refugee, refugee status determination, *refoulement* and asylum policies of various countries and the EU, qualification for cessation of refugee status, dynamics of repatriation, local integration or naturalisation and third country (re)settlement will be discussed as well as the human rights of refugees wherever they may find themselves. The laws of Moses contain specific directives by God to us about how to treat the strangers in our midst and these will be explored in this class.

**ILDP 461: INTERNATIONAL PERSONNEL ADMINISTRATION 3 Credits**

This course provides an overview of personal administration. Personnel administration has been referred to as human resource management. Since managing human resources deals with people and work, study of behavioural science concepts in complex provides insight into the relationship of the individual and organization. Personnel management is a course that examined how managers in international firms are affected by key environmental factors such as politics and culture, and how they Approach and resolve the differences and difficult cultures posed by international business opportunities and competition. Also the course will focus on understanding the relationship of the people to the organization in enhancing productivity, leadership, team processes and reward systems. Also presented and discussed from theoretical and practical perspective will be change management, handling people on the job, organization culture and value and how individual perceptions are expressed within the organizations. The essence in effect is to build leadership through Christian education; transforming gives, impacting society for positive change, which will eventually bring excellence, integrity, accountability, servant leadership team spirit, autonomy and responsibility.

**PLSC 466: AFRICAN INTERNATIONAL RELATIONS 3 Credits**

This course explores the relations of African peoples and nations with the outside world historically up to the present time. Specific patterns of interaction in precolonial and colonial periods will be explored including the dynamics of trans-Atlantic and Indian Ocean slavery and

the creation of an African diaspora. Current challenges and features of postcolonial international relations such as foreign policies, economic dependence, the politics of international organisations, regional organisations, Africa and the West, the US, The EU, Russia, and so on will be explored.

**PLSC 471: INTERNATIONAL POLITICS OF MASS COMMUNICATION 3 Credits**

The course is about the media and communication which has grown wide as a field of academic inquiry. It is the reflection of the huge impact of globalization on media and communication in which research approaches and agenda are being increasingly politicised and internationalised. The internationalisation of higher education, with the changing profile of students and researchers which has brought much greater mobility and interaction among the academic community, has further strengthened the international dimension of the politics of media, culture and mass communication. The flow communication and information dissemination across great distances has been a catalyst for many changes in human relationships. Through a variety of mediated technologies, the cumulative effect of these changes was a redefinition of space and time, and increasing immediacy and transparency in global connections (Olsen, 1999). In essence, the study of the course will help build up students in knowing how information dissemination and communication could be used to achieving excellence, integrity, autonomy and responsibility in the leadership positions they find themselves. BU core value should be referenced.

**ILDP 491: INTERNATIONAL MARITIME LAW 3 Credits**

Over 70% of the Earth is made up of water. Nigeria has a coastline of 852 kilometres bordering the Atlantic Ocean in the Gulf of Guinea. She has a maritime area of over 46,000 km<sup>2</sup>. In this area many activities are carried out. This include fishing and transportation in the sea. The sea area is also rich in hydrocarbon and solid minerals. It possesses both fresh and mangrove swamps, creeks, coastal rivers, estuaries, bays, and near and offshore waters. Eight Nigerian states, with 25 per cent of Nigeria's total population, share the Atlantic Ocean coastline. Nigeria has over 200 different species of fishes in its maritime domain with huge economic value. The sea environment is made of resources worth a total of \$24 trillion. NIMASA and IMO are the major institutions. The UNCLOS is the principal law that governs the sea. The UNCLOS covers limits of jurisdiction of states, navigation, archipelagic status and transit regimes, exclusive economic zones (EEZs), continental shelf jurisdiction, deep seabed mining, the exploitation regime, protection of the marine environment, scientific research and settlements of disputes. Nigeria has some of its oil platforms or rigs in the EEZ. There are others laws or r that govern or regulate carriage of goods. They could be international laws or rules or municipal laws. Genesis 6:14- the Sea or Rivers were created by God Genesis 1:9-10- The first ship was Noah's Ark that floated on water. Most of Paul's missionary journeys were through the sea. He was also in perils in seas". (See 2 Corinthians 11:25-26. Thus, the sea is God's Blessing to humanity. Through this means the message of salvation was spread beyond Palestine. Apostle Paul suffered ship wreck.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

**3 Credits**

This is a capstone course for students of Political Science/Law and Diplomacy which seeks to bring together the Biblical basis for the various subjects they have been taught in their four-year program. This course advances the notion that God is the Source of all law and human interactions, the Law Giver, Judge and Ruler of all nations. Students will explore the idea that

International Law, as posited by philosophers and scholars down the centuries has its basis in natural and divine law instituted by God. Furthermore, students will review how diplomatic practice can inculcate biblical principles such as the humanity of all mankind, the golden rule, living at peace with all men, the great controversy as the foundation of human conflicts, the imminent judgement of the kings and kingdoms of the earth and the soon coming of the Prince of Peace. Ultimately, students will be encouraged to make a personal commitment to these principles and more in order to carry it through in their professional service after graduation.

**B.Sc. (Hons) PUBLIC ADMINISTRATION  
100 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
		<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0



GEDS 101	Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 112	Health Principles	-	2
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	2	-
<b>CORE COURSES</b>			
PBAD 100	Introduction to Public Administration	3	-
PLSC 100	Introduction to Political Science	-	3
PBAD 141	Introduction to Social Psychology	3	-
PBAD 142	Introduction to Sociology and Anthropology	-	3
PLSC 120	Citizens and The State	-	3
PLSC 112	Nigerian Constitutional Development	-	3
PLSC 121	Introduction to International Relations	3	-
PLSC 131	Foundations of Political Economy	3	s-
<b>TOTAL (41 Credits)</b>		<b>22</b>	<b>19</b>

**B.Sc. (Hons) PUBLIC ADMINISTRATION  
200 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0

GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 221	Introduction to Agricultural Science	2	-
GEDS 290	Advanced Spreadsheet and Digital Presentations	2	-
GEDS 260	Environmental and Sustainable Development	2	-
GEDS 280	Leadership Skills	-	2
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
PBAD 201	Principles of Management	3	-
PBAD 202	Local Government in Nigeria	-	3
PBAD 211	Theories of Public Administration	3	-
PBAD 212	Traditional Administrative Systems in Nigeria	-	3
PBAD 232	Nigerian Public Administration	-	3
PBAD 242	Human Relations and Personnel Management	-	3
PLSC 200	Nigerian Government and Politics	3	-
PLSC 220	Statistical Methods in the Social Sciences	3	-
PLSC 232	Logic and Scientific Reasoning	-	3
ECON 100	Principles of Economics	-	3
FREN 131	Elementary French I	3	-
FREN 132	Elementary French II	-	3
	<b>TOTAL (49 Credits)</b>	<b>24</b>	<b>25</b>

**B.Sc. (Hons) PUBLIC ADMINISTRATION  
300 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0

GEDS 317	Religion and Social Ethics	3	-
GEDS 312	Introduction to Family Life Education	-	2
GEDS 310	E-Customer Relationship Management	-	2
<b>CORE COURSES</b>			
PBAD 302	Public Finance and Budgeting	-	3
PBAD 311	Comparative Public Administration	3	-
PBAD 312	Government and Administration of Urban Systems	-	3
PBAD 331	Comparative Local Government	3	-
PBAD 332	Organizational and Administrative Theory	-	3
PBAD 341	Administrative Ethics	3	-
PBAD 351	Development Administration	3	-
PBAD 362	Public Management Accounting	-	3
FREN 215	Intermediate French I	3	-
FREN 216	Intermediate French II	-	3
PLSC 300	Research Methodology	-	3
PLSC 380	Practicum	0	0
<b>*ELECTIVE COURSES</b>			
PLSC 310	Comparative Politics	3	-
PLSC 353	Religion and Politics	3	-
PLSC 363	Political Parties and Pressure Groups	3	-
PLSC 365	Globalization and Politics of Development	3	-
<b>TOTAL (43 Credits)</b>		<b>21</b>	<b>22</b>

**\*Students are to choose one elective in the first semester only.**

**B.Sc. (Hons) PUBLIC ADMINISTRATION  
400 LEVEL COURSES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>SEMESTER</b>	
	<b>GENERAL EDUCATION COURSES</b>	<b>1<sup>ST</sup></b>	<b>2<sup>ND</sup></b>
GEDS 001, 002	Citizenship Orientation	0	0

GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
GEDS 420	Biblical Principles in Personal and Professional Life	-	3
	<b>CORE COURSES</b>		
PBAD 401	Public Enterprises Management	3	-
PBAD 402	Social and Welfare Administration in Nigeria	-	3
PBAD 411	Principles of Strategic Management	3	-
PBAD 421	Public Finance Management	3	-
PBAD 431	Public Policy Making and Analysis	3	-
PBAD 450	Democratic Studies	3	-
ECON 400	National Economic Planning	-	3
LAWS 422	Principles of Administrative Law	-	3
PBAD 490	Research Project	-	6
	<b>*ELECTIVE COURSES</b>		
PBAD 441	Office Management and Labour Relations	3	-
PBAD 461	Collective Bargaining	3	-
PLSC 430	Politics of Intergovernmental Relations	-	3
PLSC 445	Gender and Politics	3	-
	<b>TOTAL (43 Credits)</b>	<b>22</b>	<b>21</b>

**\*Students are to choose one elective in each semester.**

### **B.Sc. (Hons) PUBLIC ADMINISTRATION COURSE DESCRIPTIONS**

**PBAD 100: INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credits**

Meaning, scope and subject matter of Public Administration, Basic concepts, techniques and overview of theoretical approaches; the rationale and ecology of Public Administration, distinction between public and private administration; the evolution of Public Administration and the Politics-Administration dichotomy will be adequately interrogated. Moses' father-in-law advised that in the management of public affairs, Moses should delegate authority to group leaders (Exodus 18).

**PLSC 100: INTRODUCTION TO POLITICAL SCIENCE 3 Credits**

This is a compulsory course for 100 level students of Political Science, International Law and Diplomacy, and Public Administration. The goal is to introduce the students to the rudiments of the discipline by applying Christian principles with the hope of inculcating in them values that will bring about positive changes in society. This entails an understanding of the concepts of politics, political science, and the status of the discipline as an art or science. It will further focus on various approaches to the study of political science, concepts such as the state, government, power, authority and influence, forms and organs of government, constitution and constitutionalism as well as rule of law and separation of power; amongst others.

**PBAD 141: INTRODUCTION TO SOCIAL PSYCHOLOGY 3 Credits**

The central goal of this class is to provide students with a working knowledge of social psychology and to kindle an interest in ourselves, the world around us, and the connections between the two. This is a course about how we become who we are - how our personalities (or ourselves) are shaped by others, the groups we belong to, the social structures around us, and our interactions as social beings. However, interaction is a process between entities. Hence, it is not only about how the world around us shapes who we are, but also a course about how we shape the groups that we belong to and the social structures around us through integration of faith and learning which as to do with aiming at excellence in all we do, making team spirit as our strength in achieving this. In Corinthians 12, the word of God provides insight on the need to cooperate to ensure the good of all members of the society. All of us are members of a whole and what affects one will by extension affect all.

**PBAD 142: INTRODUCTION TO SOCIOLOGY AND ANTHROPOLOGY 3 Credits**

The purpose of this course is to provide the students with basic ideas and knowledge in sociology and anthropology which as to do with social structure and man and its environment. By the introduction of this course, it is believed that students will be able to understand and appreciate the basic issues like social class conflict, social dynamism, socialization (etc.), principles like integrity, team spirit, servant leadership, (etc.) in order to be able to overcome various challenges the society might pose to them. Also, approaches of sociology and anthropology in order to relate well wherever they find themselves. Students may also gain an indirect benefit of appreciating the social, cultural, and behavioural dimensions of the human beings in the society. We are social beings that emanated from the first man and woman (Adam and Eve, Gen 1&2). There is need for mutual coexistence as we are of one family, the family of God (Luke 3:38) regardless of our colour, nationality or race.

**PLSC 120: CITIZENS AND THE STATE 3 Credits**

Examines the relationship between the citizens and the state in terms of duties and obligations. Also, the course will examine basic concepts such as, rights, duties, obligations and

responsibilities, leadership, followership, loyalty, and patriotism, the nature of the environment, etc. Students will be taught that as God's children, we are enjoined to submit to all authorities, which are instituted by God, but that ultimately, "our citizenship is in heaven, from where we await a Saviour."

### **PLSC 112: NIGERIAN CONSTITUTIONAL DEVELOPMENT      3 Credits**

Compulsory course for 100 level students of Political Science, International Law and Diplomacy and Public Administration with a view to introducing them to the rudiments of the historical journey of constitutional and political development in Nigeria. The course is to be taught in line with Babcock Biblical perspective by enabling students to appreciate the presence and support of God in the historical journey of Nigeria. This course entails the understanding of basic concepts such as politics, constitution, constitutionalism, colonialism and nationalism among others. It covers a period between 1861 up to the present day with emphasis on such aspects as pre-colonial relationship, indirect rule, Clifford, Richards, Macpherson Constitutions and various other constitutions and amendments between 1960 and the present time and the effect on democratic culture in Nigeria as well as the role of the military in constitution making.

### **PLSC 121: INTRODUCTION TO INTERNATIONAL RELATIONS      3 Credits**

The course introduces students to the meaning and scope of international relations, sources of international law, forms of interactions between and among nation states, diplomacy, power, conflict, terrorism, peace keeping etc, as well as the distinction between international relations, international system and international politics. Students are taught that God has been, and will always be involved in the affairs of men and nations, and that, as prophesied in Daniel chapter 2, it is His kingdom that will prevail in the end.

### **PLSC 131: FOUNDATIONS OF POLITICAL ECONOMY      3 Credits**

The course aims to introduce the students to the understanding of political economy as a concept, field of study, approach and theory. It will provide a holistic study of the relationships that exist between issues, phenomena and policies in a given society; including an understanding of the basic reasons for the very divergent economic status that exists between the developed and developing world; the rich and poor; North and south. It will provide a clear understanding of the role of the Bretton Woods institutions in the global economic system as well as the globalization of the world. To provide a balance, different perspectives (Marxist, Capitalist and Liberal) are to be adopted in the study of various phenomena and issues. In spite of the fact that most of the original proponents of this approach to politics displayed a lack of interest in religion and Marx was famously quoted as saying that religion is the opium of the masses, the course would be taught with an inclination that God is the God of justice and equity and is the only one that can provide the parameters to ensure equity and proper re-distribution of the wealth in a given society.

### **PBAD 201:      PRINCIPLES OF MANAGEMENT      3 Credits**

Principles of Management is a comprehensive introductory course to the students' on the management process from a manager's perspective. It emphasizes the skills, competencies, techniques and knowledge needed to successfully manage an organization. It focuses on the entire organization from both a short and long-term basis. The course also focuses the manager's strategic vision, setting objectives, crafting a strategy and then implementing it. To aspire to leadership is an honourable ambition. (I Timothy 3:1) "Management" is another word for

"stewardship." "Stewards," or "managers," are responsible over something entrusted to them by someone else. Management is the process of accomplishing God's purposes and plans through proper use of human, material, and spiritual resources.

**PBAD 202: LOCAL GOVERNMENT IN NIGERIA 3 Credits**

Evolution of Local Government in Nigeria: the era of Indirect Rule, participatory local government, the military and the 1976 reform. Functions, sources and management of local government finance, problems, challenges and prospects. Everyone must be subject to the governing authorities because they have been instituted by God.

**PBAD 211: THEORIES OF PUBLIC ADMINISTRATION 3 Credits**

A survey of the main theories vis-a-vis the basic principles of public administration; problems of organization, administrative processes, authority and leadership. Classical theories such as scientific management theory; Neo Classical; as well as modern theories such as public-choice theory, ecological school of thought and environmental school would be adequately interrogated. God is a God of specifics and there is need for systematic approach to achieve what is desirable for the society.

**PBAD 212: TRADITIONAL ADMINISTRATIVE SYSTEMS IN NIGERIA 3 Credits**

The course intends to showcase that the Godhead (Trinity) is a symbol of orderliness, and from time immemorial God is interested in organization. This is revealed from creation when God created both living and non-living things with the conclusions that it was good! Another example in which the course is based upon was the calling of Moses by Jethro to divide the Israelites into groups for proper coordination. Hence, students will learn that, it is an erroneous view that the arrival of the Europeans and orthodox religion taught Africa a way of administration; this course therefore, is designed to show that Africans had developed a distinct and a rich culture of administrative system before the arrival of the colonial masters. Hence, this course traces the early history of Nigeria, NOK culture, Migration and formation of centralized institutions; The Hausa States, Kanem Bornu Empire, Yoruba States, the Benin etc; also, the Administration in those states, as well as the formation of acephalous groups, East and West of the Niger, North and South of the Benue, and the administration within these groups. At the end the course students are to understand how to be a future leader of excellence, with integrity, accountable, servant leaders, with team-spirit, and being responsible.

**PBAD 232: NIGERIAN PUBLIC ADMINISTRATION 3 Credits**

The main purpose of this course is to familiarize students with the ecology of Nigerian Public Administration. Starting with the pre-colonial and the colonial systems of administration. Also having a good understanding of public corporation and their problems, civil service including the various reforms, field administration and the policies of financial administration as well. Students will be more enlightened on the challenges of Nigerian public administration and how it can be overcome by making integrity, accountability, autonomy and responsibility our passion. Accountability is major issue in Nigerian public administration, and God requires that we are accountable for our actions and use of resources (Matt 25).

**PBAD 242: HUMAN RELATIONS AND PERSONNEL MANAGEMENT 3 Credits**

Upon the basis that men are created in the image of God, this course exposes students to modern principles, models, theories, types, patterns, dynamics and impact of personnel and human relations management as well as those topics that can aid acceptable relationship between the worker and the public. It will present students the opportunities to become more effective, discerning, ethical, flexible, perceptive and understanding in both professional and personal endeavours. Special attention will be given to effective communication in global organizations and critiques of organization communication systems and structures are also presented for job seekers and the benefits of customer-oriented workplace. Through this course, students will understand how the different personnel interface in the organization towards achieving organizational goals. At the end of the course students will understand how to be a future manager of distinction, be a good servant leader, cultivate team-spirit habit, and be a responsible worker.

**PLSC 200: NIGERIAN GOVERNMENT AND POLITICS**

**3 Credits**

The course traces the chronicle of the Nigerian state; the nature of politics prior to amalgamation, colonial system of government and its manifold effects, the arguable selfless and servant leadership efforts of foremost nationalists, as well as the post-colonial administration of Nigeria. The course also examines, more specifically, the old challenges of constitutional amendments, emergence of political parties, and more recently displacement, terrorism, and the age long menace of corruption, highlighting the biblical perspectives to these issues.

**PLSC 220: STATISTICAL METHODS IN THE SOCIAL SCIENCES**

**3 Credits**

This course focuses on basic items in descriptive, analytic, inferential and predictive statistics, measures of central tendencies, logic and technique of Chi – Square, Correlation and Regression, Analysis of variance, ANOVA, and other statistical methods. The course is an affirmation of the precise order and logic that the Creator God used to lay the foundation of the natural world.

**PLSC 232: LOGIC AND SCIENTIFIC REASONING**

**3 Credits**

The Course explores the fundamentals of logic and scientific reasoning. Direct students to the fact that God the author of wisdom also requires us to follow the right principles and techniques of living to enjoy abundant life here on earth and eternity with Him. This has become very pertinent in the present millennium as people increasingly degenerate into reflectors of other peoples thoughts instead of engaging in tasking inquiry that leads to development of ideas and philosophies that have the potential of positively transforming the world. It will commence with basic understanding of what logic means and the elementary concepts; it will proceed to examine deduction and induction as well as valid and invalid arguments. An exploration of different types of fallacies in arguments; Exposition of the relevance of categorical syllogism; use of symbols and language, will open up the comprehensive inquiry into the understanding of techniques, approaches/methodologies of conducting scientific inquiry in the 21<sup>st</sup> Century.

**FREN 131, 132 ELEMENTARY FRENCH I, II**

**6 Credits**

The study is on the basic structure of the French language, paying careful attention to the oral as well as the written aspects of the language in an organised sequence.

**ECON 100: PRINCIPLES OF ECONOMICS**

**3 Credits**

An introduction to the various issues in economics: the nature of economic science, the methodology of economics, major areas of specialization in economics, elementary principles of



micro and macro-economics, historical development of economic ideas, theory of demand and supply, current issues of interest in economics and probably future developments. The parable of the talents told by Jesus is a basis for the principles of economic management that will be taught in this course.

**PLSC 300: RESEARCH METHODOLOGY 3 Credits**

This course examines research methodology concept, types of research methods, and approaches to research. This course will provide an opportunity for participants to establish or advance their understanding of research through critical exploration of research language, ethics, and approaches. The course introduces the language of research, ethical principles and challenges, and the elements of the research process within quantitative, qualitative, and mixed methods approaches. Participants will use these theoretical underpinnings to begin to critically review literature relevant to their field or interests and determine how research findings are useful in informing their understanding of their environment (work, social, local, global). Proverbs 25:2. It is the glory of God to conceal things, but the glory of kings is to search things out. 1 John 4:1. Beloved, do not believe every spirit, but test the spirits to see whether they are from God, for many false prophets have gone out into the world. Proverbs 19:2. Desire without knowledge is not good, and whoever makes haste with his feet misses his way.

**PBAD 302: PUBLIC FINANCE AND BUDGETING 3 Credits**

This course is an introductory course in Public finance and government budgeting. It deals with public revenue, allocation and expenditure policies, processes of monetary policy and controls, financial management, politics of the budgetary process, Taxation and Public debt management. The purpose of this course is to introduce students to the theories, concepts, and practice of Public finance as different from private financial management, and to expose them to the current issues and challenges in this field. God requires that we are accountable in all our responsibilities, as we are stewards of the resources that are entrusted into our care (Matthew 25). We all have talents that God expect us to make good use of and account for at the end. We are to ensure prudent management of the resources without being wasteful.

**PBAD 311: COMPARATIVE PUBLIC ADMINISTRATION 3 Credits**

Comparative public administration emerged as a field of study centered on the development and distribution of foreign aid. Overtime, the field has evolved in many directions ranging from the study of administrative inefficiencies, policy implementation, budgeting, systems analysis and fragmentation, culture and public administration, and distributions of governmental power. In this class we will explore a variety of subjects about the general administration of countries in a comparative perspective and basic principles like excellence to integrate this knowledge.

**PBAD 312: GOVERNMENT AND ADMINISTRATION OF URBAN SYSTEMS**

**3 Credits**

The problems involved in planning and execution of major services in urban political systems, and an examination of the structure of political power operating in such systems. Also understanding the cause of those problems government and citizens are facing when it comes to urban planning which include bad leadership, corrupt practices, lack of maintenance culture and knowing how to tackle these problems majorly by incorporating moral principles like servant leadership, accountability, autonomy and responsibility etc.

**PBAD 331: COMPARATIVE LOCAL GOVERNMENT 3 Credits**

Examination of the theoretical bases of different local government systems (e.g. Nigerian, British, French and American) and their relationship to structural organization of local government; Comparison of main features of devolution, and deconcentrating, management community power structures, finances, central local relationship. etc. In the reign of Solomon, king of Israel, kings from all over the world sent representatives to learn from his wisdom.

**PBAD 332: ORGANISATIONAL AND ADMINISTRATIVE THEORY 3 Credits**

Emphasis on organization and administrative dynamics in modern public organizations, organization theory, linkages and communication. Various theories of managing organizations - classical, modern and contemporary will be interrogated. Systems, communication-cybernetics, principal-agent, prismatic models, etc.

**PBAD 341: ADMINISTRATIVE ETHICS 3 Credits**

This course's main focus is on how ethical consideration determines administrative procedures and decisions with political, legal and social environment. Also its relationship to public agencies and government control, as well as how administration relates to activities to various social problems. Students will be taught ethical principles like integrity, accountability, excellence, servant leadership, transparency etc. in order to influence decision making having positive impact on the political, legal and social environment.

**PBAD 351: DEVELOPMENT ADMINISTRATION 3 Credits**

The context of development administration, developing theories and theories in development administration, development strategies, public enterprises and development processes, development at the national, state and local government levels; international development strategies, capacity building for management and development, administration and managerial aspects of development, and development administration in Nigeria, issues, problems and prospects.s

**PBAD 362: PUBLIC MANAGEMENT ACCOUNTING 3 Credits**

Accounting for management control purposes, objectives and methods of management accounting, cost accounting systems, general principles of costing; behavioral aspects of costs, element of cost, fixed variable and semi – variable cost, budgets, budgeting control, preparation of master and subsidiary budgets including cash forecasting, standard costing, preparation and computation of variances, marginal costing, break even analysis; sources of finance, discounting techniques and investment appraisal. Integrity and accountability are core values to be taught in this course at every stage.

**FREN 215, 216: INTERMEDIATE FRENCH I, II 6 Credits**

This course involves a review of the French grammar with written and oral practice, readings on life and culture in France, ranging from simplified material to standard authors. Also, the contents of this course include readings on life and culture in Africa.

**PLSC 380: PRACTICUM S/U**

This course is designed for all departmental students to spend a period of two to four months undergoing practical training or internships in institutions and organisations relevant to their

study of political science, public administration and law and diplomacy. A certificated foreign language practical training may also be accepted in lieu of this for Political Science and Public Administration students ONLY. Students must meet the requirements and guidelines necessary for satisfactory performance set by the department from time to time.

**PLSC 310: COMPARATIVE POLITICS 3 Credits**

The scope, basic concepts and theories associated with comparative politics, systems, structural functional, elite, modernization, power, Marxist and other theories compared and related to countries as they are affected. Various political systems are compared and contrasted on the basis of distribution of power and authority, electoral systems, local government systems, constitutions, social and economic organization, and so on. The model to be used in evaluating these systems will be the principles of the kingdom of heaven as taught by Jesus in the Gospels.

**PLSC 353: RELIGION AND POLITICS 3 Credits**

This important course explores the nexus between religion and politics that has historically existed in every country of the world, as well as the current manifestations of this interrelationship. The course serves two main purposes: first, it covers the various intersections between religious and belief systems and the practice of politics in Nigeria, Africa and the world over, including the implications for governance, peace, and development; secondly, it aims to integrate faith perspectives in the overall experience of students in the department as they contemplate different subjects and even as they ponder their future paths.

**PLSC 363: POLITICAL PARTIES AND PRESSURE GROUPS 3 Credits**

Political parties and pressure groups serve the important functions of interest articulation and interest aggregation in any polity. This course engages in a comparative exploration of the types, functions, problems, and dynamics of political parties and pressure groups around the world and from a comparative perspective. Students are admonished about involvement in groups that edify, and not those that stand in opposition to God as He will ultimately do His will as He did with those who started to build the Tower of Babel in biblical times.

**PLSC 365: GLOBALISATION AND POLITICS OF DEVELOPMENT 3 Credits**

This course foregrounds globalization, its theories and dynamics, as a force in the development of countries of the global south. Theories of development, growth and expansion of globalisation historically, features of globalization, politics and development, the politics of debt, foreign aid, dependency, underdevelopment, de-development, the institutions and instrumentalities of global development discourse and practice, and related topics will be explored. The course will explore how the increase in knowledge and men “running to and fro” predicted in the Bible by Daniel has implications for the welfare of human beings loved by God.

**GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE  
3 Credits**

The course will expose students to the inculcation of Biblical principles of honesty, integrity, accountability, servant-leadership and love for ones neighbours in their personal and professional lives. Public Administrators are to ensure that formulation and implementation of public policies are carried out in utmost good faith, as their positions are a trust held as stewards of the people’s resources. Accountability is required of them as they apply public resources to ensure good life for the less privileged and ensuring equity and equality of all peoples regardless of gender, race,

nationality. Students are exposed to the fact that personal and professional lives are to be lived as Christ ambassadors on earth who are preparing for their permanent home; eternity with Christ.

**PBAD 401: PUBLIC ENTERPRISES MANAGEMENT 3 Credits**

Objectives and classification of public enterprises in Nigeria and elsewhere comparatively; Organization and problems, performance measurement and control; capital structure and funding; Relationship between state and federal parastatals; detailed consideration of commissioned report on parastatals, privatization and commercialization of public enterprises. Since our goal is to teach a course that is academically and professional sound and also solidly anchored on Biblical world view and its concomitant broad outline principles, this course is designed to create awareness for the students about the effort of the government to mobilize human and natural resource to install productive public sector that will deliver public good. The course also exposes the theoretical underpinnings as well as practical implications and problems of converting hitherto public sector to privately owned structures.

**PBAD 402: SOCIAL AND WELFARE ADMINISTRATION IN NIGERIA 3 Credits**

Nature and development of social policy in the context of changing Nigerian social conditions and the impact upon family and group organization; Welfare policies and social services; criminology; policies and problems in education, housing, health, food provision, disability and children care; poverty alleviation, women empowerment programs; etc. This course is in line with the biblical injunction which says that wealthy individuals and the government should take care of the poor in society, and by this they are giving to the Lord Himself, who rewards in due time.

**PBAD 411: PRINCIPLES OF STRATEGIC MANAGEMENT 3 Credits**

What is management? The corporate framework, scientific management Taylor, Gilbreith, Fayol, Human Relations school, Mayo and the Chicago school, Mechanics, dynamics of organization, authority and leadership, delegation, group functions and committees; communication; Theory and practice of decision making; etc. All of earth has been given to man since the Garden of Eden to strategically manage and care for, thus this course helps to fulfil this divine objective.

**LAWS 422: PRINCIPLES OF ADMINISTRATIVE LAW 3 Credits**

The Course explores the practice and concept of administrative law in Nigeria, which is a direct derivative of the administrative law of England. The course takes root from the fact that God is the ultimate law give (Exodus 20) and that laws and constitutions of various countries emanate from it. It will commence from an introduction of the subject to the constitutional concepts that comprise it. Delegated Legislation; Administrative Adjudication; Judicial Control of Administration and Remedies in Administrative Law will equally be explored. The powers of public institutions and authorities, such as EFCC, ICPC, Federal Character Commission, etc, (the various decrees and Acts establishing them) and the remedies available to citizens where public officials abuse the powers conferred on them in the exercise of their duties will be examined. Special emphases would be paid to various administrative tribunals and cases in which citizens have sought various judicial remedies against institutions of state. The role and relevance of the public complaints commission (Ombudsman) will be examined.

**PBAD 421: PUBLIC FINANCE MANAGEMENT 3 Credits**

Environmental and distinguishing characteristics of government and institutional accounting, state and local government organization for financial management special methods of accounting, within the legal and financial constraints for: local government, hospitals, and state owned companies; planning in the public sector; planning, programming, budgeting, accounting and the budget process, problems of development output; Measure and sanctification of effectiveness; control and accountability; control, government control; reporting and auditing in the public sector; accountability to the electorate.

**PBAD 431: PUBLIC POLICY MAKING AND ANALYSIS 3 Credits**

Theories of the policy process, contemporary problems in policy formulation, implementation and evaluation concepts and strategies in planning, programming and budgeting, cost effectiveness and cost benefit analysis; Decision making techniques, scientific techniques for evaluating and analysing public policies. Students are exposed to the fact that public officials should be servant-leaders who see themselves stewards of the people who hold office as a public trust to the benefit of the populace.

**ECON 400: NATIONAL ECONOMIC PLANNING 3 Credits**

This course delineates the history and rationale of economic planning, it's importance to a nation's welfare and development with the assessment of its initial conditions. The process of planning, the attributes of a good plan and the challenges of planning even in industry, agriculture, foreign trade, investment finance and technology. It as well reviews all Nigeria's national development plans and suggests way out for efficient and effective national economic plan. Christ taught there is need for adequate planning ahead of any major project as he who wants to build a house must first check the costs and be sure he has sufficient resources.

**PLSC 430: POLITICS OF INTER-GOVERNMENTAL RELATIONS 3 Credits**

The concepts, model and types of inter-governmental relations, analysis of the various dimensions of governmental relations in Nigeria and selected countries. Emphasis on constitutional, jurisdictional, administrative, fiscal and political aspects, including the outcomes experienced comparatively. the values that will be relevant for this course would be autonomy and responsibility, as applicable to various levels of government to which powers and functions are decentralised or devolved.

**PLSC 445: GENDER AND POLITICS 3 Credits**

This unique course introduces students to the politics of gender and the gender of politics both in formal and informal spaces. The distinction between sex and gender is explicated, as well as the demystification of other binaries such as the public-private dichotomy. Theories in the field of gender and women's studies will be explored, as well as the historical development of this field of study, the international events that foregrounded women's issues for academic and activist action, African perspectives, local specificities, women's rights as human rights, and various other issues affecting women and men in relation to one another. The foundation for this course is the biblical assurance that in the kingdom of God, there is neither Jew nor Greek, Male nor Female, Slave or Free, but all are one before the Almighty Creator.

**PBAD 490: RESEARCH PROJECT****6 Credits**

This research project is designed to allow students to embark upon independent research in such fields and on such topics as may be agreed upon between the student and his or her instructor/supervisor and as approved by the department. Integrity, excellence and accountability are the watchwords for this endeavour.

**FREN 331, 332: ADVANCED FRENCH I, II****6 Credits**

This part of the course deals with French vocabulary and idioms in everyday use, combined with pronunciation drills with special emphasis on rhythm and intonation. The course deals with writing idiomatic French with drills on difficult points of grammar.

**PBAD 441: OFFICE MANAGEMENT AND LABOUR RELATIONS 3 Credits**

Students are to learn in this course the pattern of Jesus Christ on how to work together as He did with His disciples. The goal of this course among others is to teach students how to relate and work together at workplace, and also to acquaint students with modern office equipment and etiquette in the public and private sectors as well as to avail the students to understand issues relating to labour relations in the 21<sup>st</sup> century, labour agreements, setting forth work rules pertaining to wages, terms and conditions of employment and the rights and responsibilities of the parties governed by the contracts terms. At the end the course, students are to understand how to be future office managers with distinct, perform excellently, accountable, a good servant leader, cultivate team-spirit habit, and be a responsible co-worker.

**PBAD 450: DEMOCRATIC STUDIES****3 Credits**

The concept of Democratic; Political Theories of Politics; Analysis of Process and Institutions of Democracy; Democracy and Democratic Dynamics in Nigeria; Electoral Participation and Procedures in Nigeria; Trends, Problems and Prospects; Human Rights and Democracy; National/Global Context of Democracy; Developing Techniques for Empowerment of constituencies; Parameters which constrain collective institutions and the state.

**PBAD 461: COLLECTIVE BARGAINING****3 Credits**

The aim of this course is to teach students how to work together peacefully in an organization. The lessons from the beatitude (Mat. 5 :9) shall be the guide; the goal is also to teach students on issues involved in labour relations , process and negotiation of labour agreement, setting forth work rules pertaining to wages, terms and conditions of employment and the rights and responsibilities of the parties governed by the contracts terms. At the end the course students will understand how to be a future manager of distinct, perform excellently, accountable, be a good servant leader, cultivate team-spirit habit, and be a responsible worker.

## DEPARTMENT OF SOCIAL WORK AND HUMAN SERVICES



**Rita Nkiruka EZEOKOLI, PhD**  
*Head of Department*

### **Academic Staff**

Augusta Y. OLAORE, PhD (Social Work), MSW, B.Sc.*	Associate Professor
Rita N. EZEOKOLI, PhD	Senior Lecturer
Christiana O.MAKINDE, M.Ed. (Social welfare)	Lecturer 1
Mercy OMOZUSI, PhD. FIPMD, MSW	Lecturer 1
Adegbite Olanrewaju, MSW	Assistant Lecturer, Field Coordinator

### **Adjunct**

James AYANGUNNA, PhD,	Professor, University of Ibadan
Funmilayo Folaranmi, PhD,	Associate Professor, University of Ibadan
Atinsola Kalejaiye, MSW	Lecturer II, Field Specialist Babcock University

### **Part Time**

Vickie OGUNLADE, PhD (Visiting Lecturer) Senior Lecturer, Spelman College, GA USA

Cordelia ODINAKACHI-NZENWATA Administrative Assistant:

\*On Leave of Absence

## **Philosophy**

While upholding the importance of the highest academic standards, the uniqueness of Babcock University, and in particular the Social Work and Human Services Program, is to be found in pursuance of the Seventh-day Adventist Philosophy of Education that emphasizes the harmonious development of the academic, physical, psycho-social and spiritual potential of students

Recognizing the diversity of human needs the Social work and Human services department is domiciled in the Veronica Adeleke School of Social Sciences. The goal of the department is to prepare graduates who can “promotes social change, problem solving in human relationships and the empowerment and liberation of people to enhance well-being. Utilizing theories of human behavior and social systems, social work intervenes at the points where people interact with their environment. Principles of human rights and social justice are fundamental to social work” (IFSW 2000).

## **VISION STATEMENT**

Producing Social Work professional servant leaders with pace-setting human services skills for the transformation of individuals, groups and communities for the enhancement of their wellbeing and for a better world.

## **MISSION STATEMENT**

The Social Work and Human services program at Babcock University, focuses on preparing professionals who can provide client centered services through Christ -centered best practices in teaching, research and community service.

The mission is accomplished through the following objectives:

1. Provide Generalist social work education at the Bachelor’s level in the context of an accredited Christian University.
2. Provide curriculum content about social work practice with individuals, families, groups and communities. Viz a viz micro, mezzo and macro client systems.
3. Prepare graduates who recognize their own strengths, weaknesses and values and are competent in their professional use of self for a client centered practice.
4. Infuse the values and ethics that guide social work practice locally and globally.
5. Produce entry level generalist Human services professionals who are culturally competent to serve diverse populations in a variety of practice settings.
6. Provide a curriculum with up to date research findings and practices that will produce graduates that are locally relevant and of international repute.
7. Encourage and affirm global networking in the Social Work Profession

The academic rigor of the department of Social Work and Human services is undergirded by the Babcock University core values as well as the departmental core values of services with a H. E. A. R. T. as follows:

## **CORE VALUES**

H- uman centered

E- mpowerment and empathy

A- ffirmation

R- elationship

T- ruth and trust



## **DEPARTMENTAL REQUIREMENTS**

### **a. ADMISSION**

**There are two levels of admission into the Bachelors in Social Work and Human Services program. They are the UME and Direct Entry.**

#### **UTME**

Candidates seeking admission into the Bachelors in Social Work and Human Services program must satisfy the minimum entry requirements for undergraduate programs: 5 credits at the GCE/SSCE or NECO examinations at not more than 2 sittings.

They must in addition have a minimum of credit level passes at the Senior secondary school Certificate Examination (SSCE) or its equivalent in five subjects at not more than two sittings which must include English Language, Biology/Health Science, and any other relevant social science and arts subjects.

Duration: 4 years.

**DIRECT ENTRY:** Waivers may include but not limited to: Minimum of credit grades at GCE Advanced level (or its equivalence), Diplomas in Social work, Psychiatric Nursing. Behavioral Health Technician or a Bachelors' degree from other disciplines in addition to the minimum undergraduate requirement. The direct entry duration shall be 3 years.

### **b. COURSE REQUIREMENTS**

Social work majors are required to complete internships essential for integrating knowledge values and skills. These internships shall be completed in social service agencies. This will count as part of the field instruction course SOWK 416. The internship will be completed during the summer. The minimum passing grade for all field Instruction classes (SOWK 212, 322,409,416) will be a B according to the Babcock University grading system.

A comprehensive exit examination shall also be administered in the final semester to evaluate the students over all competence and preparedness for entry level into the Social Work profession. A pass grade of 60 is required for graduation. This will be part of the course requirement for SOWK 416. Any student who does not pass the test will be given an opportunity to retake the examination. Students will also be required to complete 615 hours of field practice. Students will be required to develop a professional portfolio that will reflect professional activities that demonstrate competency based on the ten CSWE (Council on Social Work Education) core competencies. Students will start the development of their portfolios in 200L and will be evaluated in the final year. SOWK 416 shall be graded as follows: 40% - Field Internship, 30% - portfolio and seminars, 30%- Comprehensive Examination.

### **c. GRADUATION REQUIREMENTS**

The Bachelors of Social Work will be a 4 year program or 3 years by direct entry.

A candidate may advance for candidacy for the award of Bachelors in Social Work and Human Services degree by satisfying the following minimum requirements.

- 41credit hours in General education classes
- 103credit hours in departmental courses

- 12credit hours in non-departmental courses.

Making a total minimum of 162semester credits

<b>LEVEL</b>	<b>GENERAL EDUCATION COURSES</b>	<b>DEPARTMENTAL COURSES</b>	<b>NON- DEPARTMENTAL COURSES</b>	<b>TOTAL</b>
100	17	15	3	35
200	17	25	0	42
300	5	36	0	41
400	7	33	0	40
<b>TOTAL</b>	46	109	3	158

**B.SW. (Hons) SOCIAL WORK  
100 LEVEL COURSES**

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	0	0
GEDS 101	Introduction to Philosophy of Christian Education	2	-
GEDS 105	Use of Library and Study Skills	2	-
GEDS 107	Introduction to General Psychology	2	-
GEDS 126	Life and Teachings of Jesus the Messiah	-	3
GEDS 131	Communication in English I	2	-
GEDS 132	Communication in English II	-	2
GEDS 134	Nigerian Peoples in a Global Culture	-	2
GEDS 120	ICT Fundamentals and Office Productivity Management	-	2
	<b>CORE COURSES</b>		
SOWK 103	Introduction to Social Work and Human Services	3	-
SOWK 104	Contemporary Issues in Social Work and Human Services	-	3
SOWK 110	Introduction to Public Health Social Work	-	3
SOWK 112	Introduction to Social Work and Legal System		3
SOWK 109	Introduction to Sociology and Anthropology	3	
	<b>*ELECTIVES</b>		
PLSC100	Introduction to Political Science	3	-
LAWS 105	Introduction to Law	3	-
	<b>TOTAL ( 35 Credits)</b>	<b>17</b>	<b>18</b>

\* Students must take one elective course in the first semester

## B.SW. (Hons) SOCIAL WORK

### 200 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001,002	Citizenship Orientation	S/U	S/U
GEDS 215	Fundamentals of Christian Faith	3	-
GEDS 200	Communication in French	2	-
GEDS 290	Spreadsheet and Digital Presentations	-	2
GEDS 221	Introduction to Agriculture	2	-
GEDS 280	Leadership Skills		2
GEDS 204	Logic and Critical Thinking	-	2
GEDS 260	Environment and Sustainable Development	2	-
GEDS 270	Peace and Conflict Resolution	-	2
	<b>CORE COURSES</b>		
SOWK 206	Christian Philosophy of Social Work	-	3
SOWK 214	Seminars in Social Work Practice/Practicum I (45 Field Hrs)		3
SOWK 215	Human Behavior in the Social Environment	4	-
SOWK 217	Social Work Theories and Practice I	3	
SOWK 218	Social Work Theories and Practice II		3
SOWK 219	Introduction to Social Work Counseling Skills	3	-
SOWK 222	Human Services and Cultural Diversity	-	3
SOWK 223	Statistical Methods in Social Work	3	-
	<b>TOTAL (42 Credits)</b>	<b>22</b>	<b>20</b>

## B.SW. (Hons) SOCIAL WORK

### 300 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
		1 <sup>ST</sup>	2 <sup>ND</sup>
	<b>GENERAL EDUCATION COURSES</b>		
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 317	Religion and Social Ethics	3	-
GEDS 310	E-Customer Relationship Management	2	-
	<b>CORE COURSES</b>		
SOWK 301	Social Work Methods: Generalist Practice with Individuals	3	-
SOWK 302	Social Work Methods: Generalist Practice with Groups	-	3
SOWK 303	Child Welfare and Services	3	-
SOWK 304	Social Work Methods: Generalist Practice with Community Development	-	3
SOWK 311	Social Welfare Policies: Administration and Governance	3	-
SOWK 315	Human Services and Social Work Methods in Field Specializations	3	-
SOWK 322	Seminars in Social Work and Human Services/Practicum II (90 Field Hrs)	-	3
SOWK 324	International Social Work: Policy and Practice	-	3
SOWK 326	Social Work Methods with Children and Families	-	3
SOWK 328	Population Based Human Services and Social Work Practice	-	3
SOWK 300	Research Methodology in Social Work	3	-
SOWK 332	Social Work Aspects of Substance Use and Abuse	-	3
	<b>TOTAL (41 Credits)</b>	<b>20</b>	<b>21</b>

## B.SW. (Hons) SOCIAL WORK

### 400 LEVEL COURSES

COURSE CODE	COURSE TITLE	SEMESTER	
	GENERAL EDUCATION COURSES	1 <sup>ST</sup>	2 <sup>ND</sup>
GEDS 001, 002	Citizenship Orientation	0	0
GEDS 400	Introduction to Entrepreneurial Skills	2	-
GEDS 440	E-Project Management and Simulation	2	-
CAPS 420	Biblical Principles in Personal and Professional Life	-	3
	CORE COURSES		
SOWK 415	Crisis Intervention and Case Management in Human Services	3	-
SOWK 416*	Field Practicum in Social Work (300 Field Hrs)	-	12
SOWK 417	Seminars in Social Work Practice/ Practicum III (180 Field hrs)	3	-
SOWK 423	Indigenous Social Work	3	-
SOWK 427	Social Work Practice in Peace Management and Conflict Transformation	3	-
SOWK 429	The Competent Social Worker	3	-
SOWK 490	Research Project	-	6
	TOTAL (40Credits)	19	21

\*SOWK 416 includes a Field Practicum/Internship that is completed during the summer following 300Level.

## **B.SW. (Hons) SOCIAL WORK**

### **COURSE DESCRIPTIONS**

#### **SOWK 103: INTRODUCTION TO SOCIAL WORK AND HUMAN SERVICES**

**3 Credits**

This course will introduce students to Social work and Human services. While interacting with the various definitions of Social Work, the students will identify how the Lord Jesus Christ fits the definition of the Master Social Worker. The distinctive features of Social Work and Human Services practice fields will be delineated. The professional activity of social workers and human services providers in Nigeria and in the world, including a brief history of the social-work profession, its knowledge, values, and skills base, and its cross-cultural aspects will be addressed. The course will also identify the uniqueness of Social work and Human services in the multidisciplinary milieu of other helping professions. Students will participate in field trips to Social Service agencies for introductory field exposure to Social Work Practice and Human Services. The course will highlight the similarities between Social Work values and the Babcock University core values.

#### **SOWK 104: CONTEMPORARY ISSUES IN SOCIAL WORK AND HUMAN SERVICES**

**3 Credits**

This class exposes students to contemporary issues in Social Work and Human Services such as domestic violence, poverty, healthcare issues and other emerging issues both locally and internationally. This course is motivated by the reality that in the last days, iniquity (social ills) will abound and the love of many will wax cold (Matt 24:12). Students will examine their own beliefs about the issues and contribute to global discussions while identifying social work perspectives and intervention. This also introduces the students to self-awareness that encourages the value of transparency about their own perceptions so they can be non-judgmental when relating to client systems.

#### **SOWK 109: INTRODUCTION TO SOCIOLOGY AND ANTHROPOLOGY 3 credits**

The Course is designed to introduce Social Work students to the disciplines of Sociology and Anthropology. The scriptures address interpersonal relationships and communal living in social contexts, therefore this course seeks to equip the students with the knowledge on the basic concepts culture and Social Institutions. The emergence of the disciplines will be discussed including the perspectives and methods as it applies to the Social Work profession. The role of religious institutions in Socialization and development of character will be emphasized. Socio-cultural practices in the Holy Bible will also be discussed. Students are motivated to be socially responsive and responsible.

#### **SOWK 110: INTRODUCTION TO PUBLIC HEALTH SOCIAL WORK 3 Credits**

This course introduces the students to the professional field of Public Health and the confluences with Social Work. The bible establishes that God desires that we prosper and be in health even as our soul prospers (3John 2). This class therefore engages students to be mindful of population health concerns. Students are introduced to the 1948 WHO definition of health as well as contemporary schools of thought on the inadequacies of the WHO definition. Students will be introduced to the NEWSTART approach for optimal health. While examining fundamentals concepts of Public health such as Epidemiology, parasitology, occupational health etc, the course

also exposes the students to the social determinants of health and environmental justice as part of social justice, which is a core Social Work value and how this informs focusing on the health and wellbeing of populations beyond services to individuals and their families. Students will be required to identify God's promises for health and how our Lord Jesus Christ addressed social aspects of health when He was on earth. The course also draws on the moorings of Babcock Core value of servant leadership and social responsibility to motivate the students to a mindset that is intentional about social work practice and services for community and population health and wellbeing through advocacy and empowerment.

### **SOWK 112: INTRODUCTION TO SOCIAL WORK AND LEGAL SYSTEMS 3 Credits**

The focus of this course is to acquaint the social work student with the interface between social work practice and the Nigerian Legal System. The students will examine legal procedures that impact service delivery as well as legislations that affect social work clients. Students will be exposed to the overview of family and child laws. The Bible and the Law will be examined as well as issues of morality and justice, citing Biblical example.

### **PLSC 100: INTRODUCTION TO POLITICAL SCIENCE 3 Credits**

The course is a compulsory course for 100 level students of Political Science, International Law and Diplomacy, and Public Administration. The goal is to introduce the students to the rudiments of the discipline by applying Christian principles with the hope of inculcating in them values that will bring about positive changes in society. This entails an understanding of the concepts of politics, political science, and the status of the discipline as an art or science. It will further focus on various approaches to the study of political science, concepts such as the state, government, power, authority and influence, forms and organs of government, constitution and constitutionalism as well as rule of law and separation of power; amongst others.

### **LAWS 105: INTRODUCTION TO LAW 3 Credits**

The course discusses the meaning, nature and scope of Law as it relates to concepts of morality, justice and religion. It features various schools of thoughts in jurisprudence as it relates to its nature. The course also examines functions of law, its classifications and canons of interpretation. It also touches on its essential features such as legal research, law reporting system as well as the concepts of judicial precedent as it concerns the development of law in any given society.

### **SOWK 206: CHRISTIAN PHILOSOPHY OF SOCIAL WORK 3 Credits**

A study of the underlying Christian Principles utilized by the Christian Social worker and an examination of church philosophy that corresponds to the Social Work Codes of Ethics. While students are introduced to the knowledge base that informs social work practice as part of their professionalization, this course establishes the biblical principle that whatever we do ...we do it to the glory of God even in the professional world of Social Work. Students will be challenged to examine their individual spiritual identity and be accountable for their own Christian formation. The course engages the student in exploring fundamental beliefs of other religions against the backdrop of Adventist Heritage encapsulated in the Seventh Day Adventist beliefs, thereby giving the professional permission to accommodate clients' spiritual beliefs and practices in service delivery.



**SOWK 214: SEMINARS IN SOCIAL WORK PRACTICE/PRACTICUM I 3 Credits**

During the Semester, the students will complete placements in Social Service agencies. The field education will examine biblical principles on services to diverse population. Students will have the opportunity to learn team spirit while in the field and they will be required to prepare weekly reports of the field activities and periodically present written reports as case- studies at seminars under the supervision of the supervising staff. The value of accountability undergirds the requirement of student debriefing sessions with field supervisors and seminars. **(45 Field Hrs).**

**SOWK 215: HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT 4 Credits**

It is application of ecological model for studying human development and behavior from birth to old age, by drawing on a number of human development theories. Explore patterns of normative and abnormal development and behaviors across the lifespan and examination of the impact of rural and cultural beliefs on childhood development. Focus on the biopsychosocial and spiritual factors affecting individuals, families, groups and communities; and develop the ability to apply the generalist intervention model across the micro, mezzo, macro continuum. Emphasis on diversity issues such as gender, ethnicity, and socio-economic status. It promotes an appreciation of biopsychosocial-spiritual development among students, thereby exposing them to wholistic education, which is an Adventist heritage. It involves the use of biblical examples in understanding, issues, such as personality development; infertility etc. Biblical revelation of Genesis 6:5 & Psalm 139:14 establish the complexity of human development, thereby making it essential to study this course.

**SOWK 216: SOCIAL WORK METHODS WITH CHILDREN AND FAMILIES  
3 Credits**

This class teaches the application of generalist practice to working with children and families within a systemic and developmental framework. It is undergirded by the belief that God established the family unit as the primary care environment for children and in Him all the families of the world are named. Students are introduced to primary stressors and problems affecting Nigerian families; and study of interventions which target transactions between families and other social systems; examination of diverse family systems and cultural influences on the Nigerian family system. The course will explore biblical principles that promote healthy, family relationships. Students will examine prevailing family systems and demonstrate autonomy and integrity as they examine their individual family systems. The class also introduces students to family laws and policies.

**SOWK 217: SOCIAL WORK THEORIES AND PRACTICE I 3 Credits**

Study of theory and principles of generalist social work practice is within an ecological framework. The need for the knowledge of Theoretical foundations for Social Work practice is motivated by the prayer of Solomon for an understanding mind so he can govern the people of God. (1 Kings 3:9) Theoretical knowledge gives better understanding of human behavior and tested approaches. Attention will be given to the strength-empowerment and solution focused perspectives through the introduction to the generalist intervention model across the micro, mezzo, macro continuum. The course introduces students to professional social work ethics and issues of diversity underlying generalist practice. Students will be expected to demonstrate excellence and accountability as they learn to help their clients to overcome their challenges.

**SOWK 218: SOCIAL WORK THEORIES AND PRACTICE II 3 Credits**

Continuation of SOWK 207, Introduction to Social Work Practice I, and Students are introduced to the planned change process. As God is a God of order and we are encouraged that all things be done decently and in order (1Cor 14:33), a systematized change process ensures that Social workers provide service in an organized way. The class presents the phases of engagement, assessment, planning, intervention, evaluation, termination and follow-up across the micro, mezzo, and macro continuum. Special attention given to biopsychosocial spiritual assessment, child neglect/abuse assessment, suicide assessment, crisis intervention, and content on diversity, oppression and social justice. Implementation of the planned change process ensures excellence in service delivery.

**SOWK 219: INTRODUCTION TO SOCIAL WORK COUNSELING SKILLS 3 Credits**

This course exposes students to basic engagement, listening, assessment and interviewing skills and techniques. The class introduces students to counseling skills that equips them for ministering both to the body of Christ and the world. Students gain the beginning skills to explore the problems of various client systems. The course enjoins students through various examples in the bible where Jesus the master counselor provided direct practice to people e.g. the story of Mary Magdalene, Samaritan woman at the well etc. The classes include both Instruction and lab experience. Students will be expected to demonstrate autonomy and responsibility as they demonstrate their ability in counseling and should be accountable for decisions they make with various client system.

**SOWK 222: HUMAN SERVICES AND CULTURAL DIVERSITY 3 Credits**

This course will examine the role of cultural diversity in human services/helping professions and will allow students the opportunity to increase self-awareness with regard to worldviews and personal beliefs about diversity issues. The concept of diversity is established in 1st Corinthians Chapter 12 with the injunction for the need to uphold “unity in diversity” Key aspects of the NASW guidelines on cultural competency will be reviewed with particular applications to cultural expressions in Sub-Saharan Africa. In addition, the relevance and importance of cultural diversity in the development and administration of human services organizations will be addressed. The class draws upon the value of Team spirit as the motivation to respect, affirm and celebrate differences among fellow students, professional colleagues and client systems.

**SOWK 223: STATISTICAL METHODS IN SOCIAL WORK 3 Credits**

This course focuses on basic items in descriptive, analytic, inferential and predictive statistics, measures of central tendencies, logic and technique of Chi – Square, Correlation and Regression, Analysis of variance, ANOVA, and other statistical methods. The course is an affirmation of the precise order and logic that the Creator God used to lay the foundation of the natural world.

**SOWK 300: RESEARCH METHODOLOGY IN SOCIAL WORK 3 Credits**

Delineates the concepts and methods of social science, especially Social Work/ Social Welfare inquiry and the philosophy of science underlying them. It also focuses on presuppositions, aims and history of procedures and methods, research techniques, sources, bibliography, references, presentation and data analysis. Students learn that methodology in research is allied to principles of truth, order, responsibility and integrity in the Bible and at Babcock University.

**SOWK 301: SOCIAL WORK METHODS: GENERALIST PRACTICE WITH INDIVIDUALS 3 Credits**

This involves the application of generalist practice to working with individuals. It involves professional skill development in utilizing effective techniques of worker-client communication, structuring helping interviews, establishing, maintaining, and terminating effective working relationships within a generalist model. Special attention is given to legal and ethical issues, case recording and working with diverse populations. It will expose student to a startling Biblical concept of assessing the mental status of a client, as well as exposure to different types of clients through biblical examples. Students will show that they have imbibed the value of accountability, through their appreciation and utilization of procedure for obtaining, protecting and releasing client information. Through biblical example of Jesus and the woman at the well, the student capture the essence of working with individual and the extent to which successful intervention at micro level can positively impact the society.

**SOWK 302: SOCIAL WORK METHODS: GENERALIST PRACTICE WITH GROUPS 3 Credits**

The course focuses on the application of generalist practice to working with groups. It lays emphasis on the historical overview of group work and introduction to major theories about group dynamics; with emphasis on group development and stages; introduction to interventions with groups. The biblical strategy of Jesus, in breaking the multitudes to be fed into smaller groups, shows the guidelines to group formation and management. There will be exposure to types of groups, class activities demonstrating group development and stages, including a class project of interventions with groups. Students learn to take ownership of a programme, do an independent work, collaborate by co-establishing a group, which brings about team spirit, they are also given the responsibility of ensuring the success of the group by managing the intricacies involved in working with members of a group as individual and ensuring group cohesion in order to achieve group success.

**SOWK 303: CHILD WELFARE AND SERVICES 3 Credits**

A survey of services for children with an emphasis on the resources that affect the well-being of children and youth. With the backdrop of the Lord's mandate to protect the rights of children and not offend them (Matt 19:14, Luke 9:42) students will examine children vulnerabilities and social protection deficits such as Child abuse, trafficking and labor. The impact of class, ethnicity, gender and oppression on children's potential will be addressed. Emphasis will be given to understanding the systems affecting children and the resources available to them through government and private agencies. An introduction to governmental response to current child welfare issues in Nigeria will be discussed with the motivation that students will see themselves as servant leaders to advocate for services and policies for orphans and vulnerable children.

**SOWK 304: SOCIAL WORK METHODS: GENERALIST PRACTICE WITH COMMUNITY DEVELOPMENT 3 Credits**

Application of generalist practice to working with communities and organizations. Exploration of the theoretical foundations of community organization as a focus of social work intervention; identification, analysis and evaluation of community problems; understanding the concepts of

power, social policy, social change and the community as a social system; introduction to and comparison of community organization strategies in developed and developing countries. It has been observed that while Jesus sort to empower individuals through healing and affirmation, He also addressed need for systemic changes by confronting oppressive practices as well as physically mobilizing communities for change as illustrated in the cleansing of the temple. The course also highlights the role of traditional rulers in community mobilization with emphasis on serving the vulnerable and oppressed in our society. Students will participate in service-learning projects and will be expected to demonstrate excellence and team spirit field practice of working with communities.

**SOWK 311: SOCIAL WELFARE POLICIES: ADMINISTRATION AND GOVERNANCE 3 Credits**

The course is an introduction to the historical developments of welfare policies, principles, functions and methods of administration of social services, including an analysis of the formulation of federal and local policies as well as social legislation, which influence the lives of individuals, families, groups and communities. This course is undergirded by the truth that God in the books of Exodus, Leviticus, Numbers and Deuteronomy lays down rules and made policy statements on the social organization and welfare of the children of Israel. Contemporary policies and legislation relevant to social welfare are therefore built on biblical foundations. The class revisits the contextualization of Child Abuse laws into the Nigerian experience. Through models of policy analysis students will be exposed to biblical heritage that form the basis of the value of social welfare policies. Students will be required to analyze policies, attempt the formulation of a policy in an attempt to understand the nature and development of social policy in the context of a changing Nigerian social conditions and the impact on family and group organizations. Propose questions to stimulate critical thinking about Institutional Welfare policies in Nigeria whereby student will be challenged to question the status quo and imbibe an attitude that promote making the country a better place for all, such an attitude translate overtime to the development of a culture of excellence. Biblical example of Jesus' use of the Mosaic law of "he who is without sin should cast the first stone" to ensure justice in the case of the woman caught in adultery, student will appreciate biblical foundations for policy and governance. Through Leviticus 19:10, student can see how the Bible support the place for rules and regulations that moderate how welfare services are provided.

**SOWK 315: HUMAN SERVICES AND SOCIAL WORK METHODS IN FIELD SPECIALIZATIONS 3 Credits**

This course focuses on the application of social work methods to generalist practice in specific field specializations such as medical, school, and correctional, legal systems, industrial/cooperate etc. the bible establishes that there social institutions that cater to human needs such as physicians network in the medical field (Luke 8:43) Teachers in a school system (2Kings 6: 1-4) prisons (Heb 13:3) etc This class therefore exposes the students to the knowledge base applicable to performing social work functions in the various field specializations. The students are motivated to exemplify servant leadership as they learn to serve. This is in preparation for the internship program in the ensuing summer.

**SOWK 322: SEMINARS IN SOCIAL WORK PRACTICE/PRACTICUM II 3 Credits**

This is the second field class for Social Work Students. During the Semester, the students will complete placements in Social Service agencies. The course requirement of agency needs

assessment is undergirded by the biblical principle of seeking the good of our immediate environment like seeking the peace of Jerusalem. The course also draws strength from biblical principles on the need for human services while students are expected to exhibit transparency and integrity in practice through process recording. Professional activities will be linked to Social Work core competencies. They will be required to prepare weekly reports of the field activities and periodically present written reports as case- studies at seminars under the supervision of the supervising staff. (90 hrs)

**SOWK 324: INTERNATIONAL SOCIAL WORK POLICY AND PRACTICE 3 Credits**

This class will introduce students to broad definitions and concepts of international social work practice. Given that the scriptures mandates Christians to be globally relevant as established in the gospel commission, this course engages the student in critical thinking in relation to global issues. Globalization, Indigenization, globalization and internationalization will be examined in the context of colonialism and imperialism in developing countries of the world. Also students will examine the socio economic outcomes of International policies on local communities. The class will expose students to the ongoing dialogue between global North and South. International linkages/exchanges in social work education provide a forum for students to team up and collaborate with colleagues in other parts of the world.

**SOWK 326: SOCIAL WORK METHODS WITH CHILDREN AND FAMILIES**

**3 Credits**

This class teaches the application of generalist practice to working with children and families within a systemic and developmental framework. It is undergirded by the belief that God established the family unit as the primary care environment for children and in Him all the families of the world are named. Students are introduced to primary stressors and problems affecting Nigerian families; and study of interventions which target transactions between families and other social systems; examination of diverse family systems and cultural influences on the Nigerian family system. The course will explore biblical principles that promote healthy, family relationships. Students will examine prevailing family systems and demonstrate autonomy and integrity as they examine their individual family systems. The class also introduces students to family laws and policies.

**SOWK 328: POPULATION BASED HUMAN SERVICES AND SOCIAL WORK PRACTICE**

**3 Credits**

The course is designed to introduce the fundamentals of generalist social work practice with different populations such as gender, victims of violence, internally displaced populations, persons with HIV, persons with disability and other relevant population to Nigeria. The rationale for the class is embedded in the truth that Jesus identified with different people groups and defended the marginalized so much so that he was called the friend of sinners (Luke 4:40-44). The course will therefore enable the students to acquire skills that will make them to be competent in serving different groups in the society especially the less privileged. Students will be exposed to advocacy roles that are specific to the populations under focus. They will develop knowledge, assessment skills and interventions that will address the unique needs of the populations as well as explore ethical dilemmas and boundaries issues that confront social workers. The moorings for this class is rooted in the value of Servant leadership.

**SOWK 332: SOCIAL WORK ASPECTS OF SUBSTANCE USE AND ABUSE**

### **3 Credits**

The Course focuses on bio psychosocial underpinnings of substance use and abuse. The bible identifies the human body as the temple of the Holy Spirit (1Cor 6), therefore the class exposes the students to a knowledge base that will equip them to address issues of substance abuse. Theories of causation, substance abuse behavior and issues of codependency and emerging social problems such as crime, violence, child maltreatment, poverty etc will be explored. Students will be exposed to Social Work interventions and skills for chemical dependency at micro, mezzo and macro levels. The course will also examine national and international drug policies as well as the role of social network and support including the need for spiritual counseling. The Adventist Heritage that denounces the use and abuse of Alcohol and other drugs will be undergirds class interactions.

### **SOWK 415: CRISIS INTERVENTION AND CASE MANAGEMENT IN HUMAN SERVICES**

#### **3 Credits**

The purpose of this course is to study the progression of rehabilitating individuals with disabilities in our society today and our responsibility towards them looking at Jesus role towards the paralytic man and others with disabilities in the bible matt 9:2-7. The relationship that exists among the different agencies and entities in the rehabilitation process will be highlighted and emphasized along with factors that facilitate or hinder the collaborative process. Principles and current practices in the process of rehabilitation will be introduced. These may include: the goals and models of case management in rehabilitation, client/consumer interviewing and assessment, planning for appropriate and effective intervention strategies, services, working with families, and benefits included in a rehabilitation plan, monitoring & evaluation of client progress, follow up and closure. Since the goal of rehabilitation is to assist clients achieve autonomy, the students will themselves be challenged to identify ways of enhancing autonomy in their professional development.

### **SOWK 416: FIELD PRACTICUM IN SOCIAL WORK (INTERNSHIP) 12 Credits**

The Field-Work at this level is a Community social work Practicum which should be carried out in specialized areas of social work practice. The internship gives the students an opportunity to translate theoretical concepts and principles in Social Work into practical experiences needed for program formulation, planning and implementation. The course enjoins students to be the salt and light of the world as they act as change agents in their internship placement with the application of theories to field practice. Students are rotated over a period of 10 weeks among both governmental and Non-governmental agencies involved in welfare services. Students are expected to submit written reports and documentations of their experiences at the end of each rotation (300 Hrs). This also will also require that students participate in seminars and class presentations that reflect the student's ability to integrate theory into practice. The integrative posture will be culminated in a comprehensive examination at the end of the semester. Students will be expected to demonstrate excellence and integrity as they demonstrate the achievement of core competences through their professional portfolios.

### **SOWK 417: SEMINARS IN SOCIAL WORK/PRACTICUM III (180 FIELD HRS)**

#### **3 Credits**

The third field work is an extension of the social work practicum II (SOWK 322). The field education at this level will explore more biblical injunctions on the benefits of providing services to diverse human population, helping students imbibe the spirit of servant leadership and

excellence in Social Work practice. This field class gives students the opportunity to practice emulating Christ's method of evangelism by mingling and seeking the good of the target population and then maximizing opportunities for them to follow Him. It caps up the field class by establishing that the ultimate goal of Christian social services is to lift up Jesus, the students will have an opportunity to participate in an ongoing or one time intervention programs and activities in the local government, community or other welfare agencies. The students are to submit documentations of their experiences at the various levels of the interventions. (180 hrs)

**SOWK 423: INDIGENOUS SOCIAL WORK 3 Credits**

This course will expose students to culturally relevant Social Work practice within the Nigerian Context. The goal is to provide, knowledge, skills and experience to work effectively with Nigerian indigenous communities. The course is informed by how the scriptures recognizes indigenous roots and places of origin (Psalm 87: 4-5) and how there are practices in each system that supports and enhances life. Special attention will be given to pre and post-colonial indigenous social care for children, families and communities in rural and urban settings. References will be made to how social welfare needs were addressed in the Holy Bible and spiritual injunctions for helping the needy. In addition, indigenous welfare systems will be evaluated alongside welfare systems and practices in the contemporary urbanized developed societies. The class encourages Social Work students to be accountable for protecting and promoting indigenous practices in their cultures that promote social wellbeing.

**SOWK 427: SOCIAL WORK PRACTICE IN PEACE MANAGEMENT AND CONFLICT TRANSFORMATION 3 Credits**

This Course will explore conflict resolution and management methods/ strategies between individuals, groups and organizations. Students are positioned to develop an appreciation for the Christian world view of peace in the light of the great controversy between good and evil. Emphasis will be on the teachings of Master Jesus who said that "blessed are the peacemakers for they shall be called the sons of God" Mt 5:9. An investigation of causes of tribal conflicts and an examination of ethnic conflict management norms as practiced in traditional settings will also be examined. Students will be expected to demonstrate excellence, integrity and accountability as they demonstrate knowledge and skills to mediate and facilitate conflict resolution in diverse client populations.

**SOWK 429: THE COMPETENT SOCIAL WORKER 3 Credits**

An integrative course harmonizing the bachelor's degree experience into a coherent whole. Students explore significant social work issues bringing their experience and knowledge to bear on the interaction of their values and skills within the major competencies. Student will review their skills in the helping process; assessment, planning, implementation and evaluation of intervention strategies. The method and principles of social work -individualization, acceptance, confidentiality, controlled emotional involvement, non-judgmental attitude, client self-determination, communication, etc would be discussed. The course enjoins students to be the salt and light of the world as Jesus and bring positive changes to the society in a humane way like the case of Jesus the master teacher who humbled Himself as a leader, e.g. during the last supper when He washed the feet of His disciples. The course will also prepare the students for entry into the professional arena by addressing decorum, comportment, preparations for job

interviews and social services entrepreneurship. Students will be expected to demonstrate excellence and integrity in their dealings and practice.

## **GEDS 420: BIBLICAL PRINCIPLES IN PERSONAL AND PROFESSIONAL LIFE**

### **3 Credits**

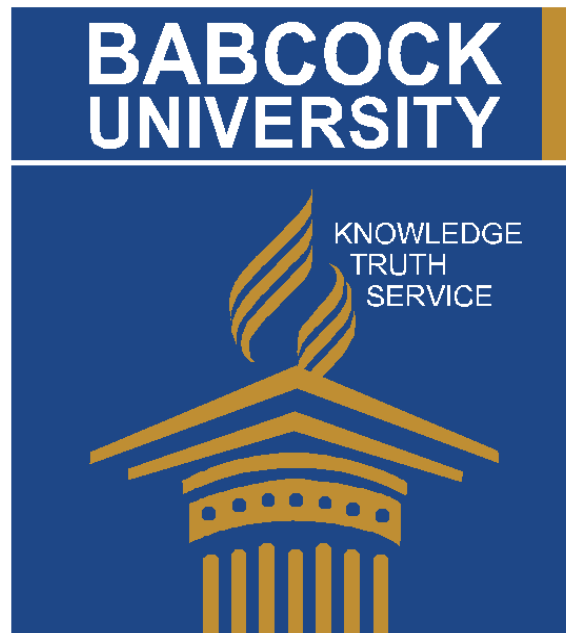
This is a capstone course that harmonizes the knowledge, skills and values taught in the Bachelors in Social Work and Human services program as a package of blessing to the world. The course engages the student to define the enhancement of the wellbeing of individuals, families and communities as blessing their clients. The class will review the Social work core values of Service, social justice, dignity and worth of a person, value of human relationship, integrity and competence underpinned by the gospel commission to Go into the world and be a blessing (Matt 28:20, Gal 3:8) Social Work activities such as case management, advocacy, empowerment, community development etc are realigned welfare policies in the Old Testament such as care of the widow, the poor, cities of refuge etc. The course gives the students the opportunity to reevaluate their own spirituality as examined through the Religiosity and Spirituality typology assessment carried out in SOWK 206 in order to be respectful and be client centered when addressing spiritual matters in service provision. The Adventist Heritage of temperance and healthy life style is incorporated into the professional ethical standard for self-care.

## **SOWK 490: RESEARCH PROJECT**

### **6 Credits**

Students employ research methods learned in PHSC 316 and write a research paper reporting data analysis outcomes. The book of Nehemiah motivates a need for gathering empirical data for research in social services. Students may collect a small-scale original data or use an existing secondary data relating to a broad range of social work issues. Student learns the value of responsibility and integrity through the rigor of producing work of originality that is free of plagiarism thus upholding the value of integrity and the value of autonomy and responsibility through their completed research work. Students will complete both oral presentations and written reports moderated and assessed by an external examiner.





**BABCOCK UNIVERSITY**  
**Ilishan-Remo**  
**NIGERIA**

**GOVERNANCE PROFILE**

AS AT 2019/2023

## **UNIVERSITY'S GOVERNANCE PROFILE**

Visitor and President of the General Conference of SDA Church

**Pastor Prof. Ted Wilson, Th.D.**

Director, Dept. of Education of the General Conference

**Lisa Beardsley, MPH, PhD.**

Chancellor and Chairman of the University Board of Trustees

**Pastor Elie Weick-Dido, PhD.**

Secretary to the Board of Trustees

**Juvenal Balisasa, PhD.**

Pro-Chancellor and Chairman, Governing Council

**Pastor Bassey Udoh, D. Min., PhD.**

First Vice Chair, Governing Council

**Pastor O. A. Owolabi, D.Min., PhD.**

Second Vice Chair, Governing Council

**Pastor Yohanna, Uchopo Harry, MA**

### **PRINCIPAL OFFICERS**

**Professor Ademola S. TAYO**

*President / Vice-Chancellor*

PhD	1999	Development Education (Religious Education), Central Luzon State University, Philippines
M. A.	1993	Religion, Adventist International Institute of Advanced Studies, Philippines
Dip.	1988	Religion, Adventist Seminary of West Africa, Ogun State, Nigeria
B. Sc.	1985	Agricultural Economics, University of Ibadan, Nigeria

**Professor Iheanyichukwu OKORO**

*Senior Vice President / Deputy Vice-Chancellor, Academic Administration*

(Senior Vice President for Academic Administration)

FICS	2002	International College of Surgeons
FWACS	1990	West Africa Postgraduate Medical College
FMCS	1987	Nigeria Postgraduate Medical College
MBBS	1979	University of Ibadan

**Professor Sunday A. OWOLABI**

*Senior Vice-President / Deputy Vice-Chancellor, Management Services*

(Senior Vice-President for Management Services)

PhD	2013	Business Administration (Accounting), Babcock University
M. Sc.	2003	Accounting, University of Lagos
MBA	1999	Accounting
B. Sc.	1989	Accounting

**Dr. Folorunso I. AKANDE**

***Vice President for Financial Affairs / Bursar***

(Vice President for Financial Affairs)

PhD	2018	Accounting, Babcock University
M. Sc.	2013	Finance, University of Lagos, Nigeria
MBF	1998	Banking & Finance, University of Lagos, Nigeria
B. Sc.	1985	Agricultural Economics, University of Ibadan, Nigeria

**Professor Joseph A. OLANREWaju**

***Vice President for Student Services***

(Vice President for Student Services)

PhD	2007	Systematic Theology, Adventist International Institute of Advanced Studies, Philippines
M.A.	1994	Pastoral Ministry, Andrew University, Michigan, USA
B. A.	1989	Theology, Andrew University, Michigan, USA

**OTHER OFFICERS**

**Professor Jonathan C. NWOSU**

***Associate Vice President, Admission and Enrolment Services***

- PhD 2014 Educational Management Olabisi Onabanjo University, Ago-Iwoye, Ogun State
- M.Ed., 2000 Educational Management, Olabisi Onabanjo University, Ago-Iwoye, Ogun State
- B.A., 1994 Religion/English Andrews University, Michigan, U.S.A.

**Professor Clara C. OKORO**

***Associate Vice President, Library & Information Services***

PhD.	2006	Library & Information Science, Imo State University, Owerre.
Chartered Librarian	2005	Librarians' Registration Council of Nigeria
M.L.S.	1991	Library & Information Science, Imo State University, Okigwe
Grad. Cert. Ed.	1982	Educational Administration, Ahmadu Bello University, Zaria
B. L. S.	1982	Library & Information Science, Ahmadu Bello University, Zaria

**Professor Constance C. NWOSU**

***Associate Vice President, Institutional Effectiveness***

PhD.	1999	Curriculum & Instruction, Andrews University, Michigan, USA
Ed. S.	1995	Curriculum & Instruction, Andrews University, Michigan, USA
M. A.	1984	English (Language Emphasis), Andrews University, Michigan, USA
B. A.	1983	Religion/English minor, Andrews University, Michigan, USA

## **DEAN OF SCHOOLS**

### **Professor Oludele AWOOLE**

#### ***Dean, School of Computing & Engineering Sciences***

PhD	2009	Computer Science, University of Agriculture, Abeokuta, Ogun State
M.Sc	2002	Computer Science, University of Agriculture, Abeokuta, Ogun State
PGD	1998	Computer Science, University of Ilorin, Kwara State
PGDE	2016	Education, Babcock University, Ilishan-Remo, Ogun State
B.Sc	1995	Mathematics University of Ilorin, Kwara State

### **Dr. Abiodun Ayodeji ADESEGUN**

#### ***Dean, School of Education and Humanities***

Ph.D	2009	Church History, University of Ibadan, Ibadan, Oyo state.
M.A.	1985	Church History, University of Ibadan, Oyo state.
B.A.	1983	Religion and History, Andrews University, Michigan, USA.

### **Professor Pius Oladeji OLANREWaju**

#### ***Provost, School of Law and Security Studies***

PhD	2016	Babcock University Ilishan-Remo
LLM	2006	Ogun State University, Ago Iwoye.
LLB	2004	Lagos State University, Lagos.
MSC	1987	Human Resource Management, University of Lagos, Lagos.
BA	1984	Philosophy University of Ife (now OOU), Ile Ife

### **Professor Johnson Ashiemamho EGWAKHE**

#### ***School of Management Sciences***

PhD.	2005	Commerce The Pontifical and Royal, The Catholic University of the Philippines (UST), Manila, Philippines
MBA	2002	Business Administration Adventist International Institute of Advanced Studies, Cavite, Philippines
BA	1996	Religion & Business Administration Andrews University, Berrien Springs, MI.

### **Professor Barnabas M. MANDONG**

#### ***Dean, School of Medicine***

FMC Path.	1994	University of London
MBBS	1986	University of Maiduguri

### **Professor Ezekiel O. AJAO**

#### ***Dean, School of Nursing***

RN	1998	New York State University, USA
Ph. D.	1986	Medical Sociology/Anthropology, University of Ife
M. P. H.	1978	Public Health, University of Ibadan
RN	1967	Nursing & Midwifery Council of Nigeria
RNT	1967	Nursing & Midwifery Council of Nigeria

**Professor Dora Oluwafunmilola AKINBOYE**

***Dean, School of Public and Allied Health***

PhD	1990	Parasitology (Medical), University of Ibadan, Oyo State.
M.Sc	1985	Parasitology (Medical), University of Ibadan, Oyo State.
FIMLT	1982	Parasitology (School of Medical Laboratory Science), UCH Ibadan.

**Professor Cyril Chikere NWANGBURUKA**

***Dean, School of Science and Technology***

PhD	2010	Plant Breeding and Genetics, Federal University of Agriculture Abeokuta, Ogun State
MSc	1999	Crop protection and Environmental Biology, University of Ibadan, Ibadan, Oyo State
BSc	1992	Botany, University of Port Harcourt, Choba, Port Harcourt, River State

**Dr. Olajumoke YACOB-HALISO**

***Dean, Veronica Adeleke School of Social Sciences (VASSS)***

PhD	2011	Political Science, University of Ibadan, Nigeria
MSc	2004	Political Science/International Relations, University of Ibadan, Nigeria
BSc	2001	Political Science, University of Ibadan, Nigeria

## **ADMINISTRATIVE COMMITTEE MEMBERS (ADCOM)**

TAYO Ademola S.

*Chairman*

OKORO Iheanyichukwu

*Vice-Chairman*

NWOSU Jonathan C.

*Secretary*

*Members*

OWOLABI, Sunday A.

AKANDE Folorunso I.

OLANREWAJU, Joseph

OKORO, Clara C.

ALAO David.

YACOB, Haliso

OLANREWAJU, Pius

MAKINDE, Yetunde

AUDU, Sunday D.

NWOSU, Constance C.

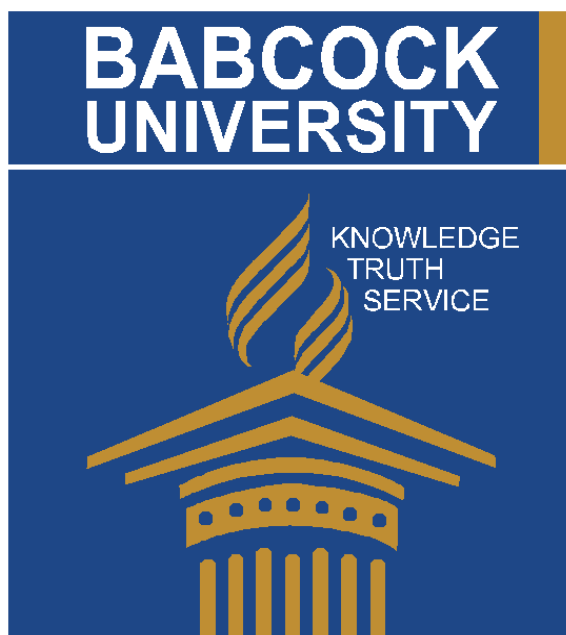
ARIJE, Olaniyi E.

ANI, Franklin I.

MAKINDE, Abiola O.

ADEBAWOJO, Bola O.

JAMES, Nma C.



# **BABCOCK UNIVERSITY BYE-LAW, 1999**

**20<sup>TH</sup> APRIL, 1999**

**AS AMENDED ON THE 19<sup>TH</sup> DAY OF JANUARY, 2007 AND FURTHER  
AMENDED IN 2010 AND FURTHER AMENDED IN 2015**

**BY**

**BABCOCK UNIVERSITY'S BOARD OF TRUSTEES AND GOVERNING  
COUNCIL**

**IN RESPECT OF**

**RULES AND REGULATIONS ON THE POWERS AND FUNCTIONS OF  
BABCOCK UNIVERSITY AND FOR OTHER MATTERS INCIDENTAL  
THERE TO OR CONNECTED THEREWITH.**

**BABCOCK UNIVERSITY BYE-LAW, 1999**

**RULES AND REGULATIONS ON THE POWERS AND FUNCTIONS OF BABCOCK  
UNIVERSITY AND FOR OTHER MATTERS INCIDENTAL THERETO OR  
CONNECTED THEREWITH.**

**20<sup>th</sup> April, 1999 (As amended on 19<sup>th</sup> January, 2007 and further amended on the 19<sup>th</sup> day of  
January, 2010 and further amended on May 6, 2015)**

**CLAUSE 1: NAME AND NATURE OF THE UNIVERSITY**

- 1.1 The name of the University is "**BABCOCK UNIVERSITY**"
- 1.2 The Proprietors of Babcock University are "THE REGISTERED TRUSTEES OF THE SEVENTH-DAY ADVENTIST CHURCH IN NIGERIA".
- 1.3 Babcock University (hereafter in these Rules and Regulations referred to as "the University") established by the Education (*National Minimum Standards and Establishment of Institutions*) (*Amendment*) Act No. 9 of 1993, (hereafter in these Rules and Regulations referred to as "the Decree"), shall be a body corporate with perpetual succession and common seal.
- 1.4 The University shall have power to sue and be sued in its corporate name and to acquire, hold and dispose of movable and immovable property wherever situate, for the purposes of its functions under this incorporation.

**CLAUSE 2: OBJECTS OF THE UNIVERSITY**

The objects of the University shall be:-

- 2.1 To provide facilities for learning, and to give holistic instruction and training in such branches of knowledge as the University may desire to foster and in doing so to enable students to obtain the advantage of a morally based liberal education, open to all irrespective of nationality, ethnic derivation, social status, sex, religious or political persuasion.
- 2.2 To promote by ethically based research and other morally acceptable means the advancement of knowledge and its functional application to social, cultural, economic, scientific and technological problems oriented towards development, peace and human progress.
- 2.3 To stimulate, particularly through teaching and research, interest in and appreciation of religious values, African culture and heritage.
- 2.4 To undertake any other activities appropriate for a University and in harmony with the educational philosophy, beliefs and policies of the proprietors of the University. Accordingly, its laws shall not conflict with the conventional responsibilities in academia or interfere with avowed traditional institutional autonomy.



### **CLAUSE 3: CONSTITUTION AND PRINCIPAL OFFICERS OF UNIVERSITY**

- 3.1 The University shall consist of:
- a) a Chancellor and a Board of Trustees ;
  - b) a Pro-Chancellor and a Governing Council;
  - c) a President/Vice-Chancellor and a Senate;
  - d) other principal officers, namely Senior Vice President(s)/Deputy Vice-Chancellor(s) as the needs may arise, a Vice President for Finance/Bursar, a Vice President for Development & Strategy, and a Vice President for Students Development;
  - e) a body to be called Administrative Committee;
  - f) a body to be called Academic Congregation;
  - g) a body to be called University Convocation;
  - h) the campuses colleges and/or schools of the University;
  - i) the faculties, schools, institutes and other teaching and research units of the University;
  - j) the persons holding the offices constituted by Clause 3(1) to these Rules and Regulations other than those mentioned in Paragraph 1 (a) to (d ) above;
  - k) all graduates and undergraduates; and
  - l) all other persons who are members of the University in accordance with provision made by Law in that behalf.
- 3.2 Schedule 1 of these Rules and Regulations shall have effect with respect to the principal officers of the University mentioned in Clause 3 (1) above.
- 3.3 The University shall have Power to constitute the following bodies, namely the Board of Trustees, the Governing Council, the Senate, Administrative Committee, Congregation and Convocation.

### **CLAUSE 4: POWERS OF THE UNIVERSITY AND THEIR EXERCISE**

- 4.1 The University shall comprise both teaching and examining establishment and, for the carrying out of its objects as specified in Clause 3 of these Rules and Regulations the University shall have power:-
- a) to establish such Campuses, Colleges, Faculties, Institutes, Schools, Extra-mural Departments and other units of learning and research within the University as may from time to time be deemed necessary or desirable, subject to the approval of the National Universities Commission or other appropriate government agencies;
  - b) to institute Professorships, Readerships, and Lectureships and any other office of any kind and whether academic or not as may be required by the University; to prescribe conditions of service for and appoint persons to such offices and to exercise disciplinary control over all employees;
  - c) to institute and award Fellowships, Scholarships, exhibitions, Bursaries, Medals, Prizes and other academic titles, distinctions, awards and forms of assistance;
  - d) to prescribe from time to time the conditions under which persons shall be admitted to the University or to any particular course of study therein or be allowed to continue in such a course of study, and to provide for the residence in time, discipline and welfare of members of the University;

- e) to hold examinations, grant and confer Degrees, Diplomas, Certificates and other academic distinctions, to and on persons who have pursued a course of study approved by the University and have passed such examinations or other tests and satisfied such other requirements as the University may prescribe;
- f) to confer honorary degrees, Fellowships, and other academic distinctions and titles;
- g) to provide such lectures and instructions for persons not being members of the University as the University may determine and to grant to any such persons such Diplomas, Certificates or other academic distinctions as the University may deem necessary;
- h) to accept the examinations passed and periods of study spent by students of the University at other Universities or places of learning as equivalent to such examinations and periods of study in the University as the University may determine, and to withdraw such acceptance at any time;
- i) to affiliate other institutions or branches or departments thereof and to recognize selected members of the staff thereof as teachers of the University, and to admit the members thereof to any of the privileges of the University, and to accept attendance at courses of study in such institutions or branches or departments thereof in place of such part of the attendance at courses of study in the University and upon such terms and conditions as may, from time to time, be determined by the University;
- j) to make provision for research and advisory services and with these objects in view to enter into such arrangements with other institutions or with public bodies as the University may deem desirable;
- k) to hold public lectures and undertake printing, publishing and selling of reports, papers, circulars, pamphlets, books, tracts, magazines, newspaper and other documents;
- l) to erect any building, residence, office, room, chapel, school, college house, mission home, medical institution, hospital, dispensary, or other building, or any part of the same, and the repairs and restoration of the same for the purposes of the University and the discipline and welfare of the members of its employees;
- m) to demand and receive from any students or any other person attending the University for the purpose of instruction such fees as the University may from time to time determine, subject to the overall directions of the Governing Council;
- n) Subject to any limitations or conditions imposed by Law, to invest any funds appertaining to the University by way of legacy, bequest, endowment, or gift, whether for general or special purposes, and such other moneys as may not be immediately required for current expenditure, in any investments or security and securities or in the purchase or improvement of land, with power from time to time to vary any such investments, and to deposit any moneys for the time being un-invested with any bank or deposit or current account;
- o) to borrow, whether at interest or not and if need be upon the security of any or all the property, moveable or immovable of the University, such moneys as the University may from time to time in its discretion find it necessary or expedient to borrow.

Provided that the Governing Council shall not have the power to dispose of or charge an interest on any lands (including any lands transferred to the University

- by these Rules and Regulations) which are held by or on behalf of the University except with the prior consent either general or special of the Board.
- p) to enter into arrangements with Corporate Bodies (including but not limited to Banks, Industries, Companies, Corporations) philanthropists, and individuals for the purpose of investing in any capital project development and services of the University.
  - q) Subject to Clause 4 (1) of these Rules and Regulations, to acquire, hold, grant, charge or otherwise deal with or dispose of movable and immovable property wherever situated;
  - r) to accept gifts, legacies and donations, but without obligation to accept the same for a particular purpose unless the University approves the terms and conditions attaching thereto;
  - s) to enter into contracts, establish trusts, act as trustee, solely or jointly with any other authority or institution and to employ and act through agents;
  - t) to erect, provide, equip and maintain libraries, laboratories, lecture halls, refectories, sports grounds, playing fields and other buildings or things (whether in Nigeria or elsewhere), necessary or suitable or convenient for any of the objects of the University in its objective of developing the whole man - mental, physical, social, and spiritual;
  - u) to take such steps as may from time to time be deemed expedient for the purpose of procuring contributions to the funds of the University;
  - v) to make gifts for any charitable purposes;
  - w) to arrange for the education and welfare of children of members of staff;
  - x) to do anything which it is authorized or required by these Rules and Regulations to do; and
  - y) to do all such other lawful acts or things, whether or not incidental to the foregoing powers, as may advance the objects of the University;

4.2 Subject to the provisions of these Rules and Regulations and without prejudice to Clause 4 herein, the powers conferred on the University by Paragraph 1 above shall be exercisable on behalf of the University by the Board or by the Senate or in any other manner which may be authorized by the University.

4.3 The power of the University to establish further campuses and colleges within the University shall be exercisable by the Board upon recommendation by the Governing Council.

#### **CLAUSE 5: FUNCTIONS OF THE CHANCELLOR AND PRO-CHANCELLOR**

5.1 The Chancellor shall, in relation to the University, take precedence before all other members of the University, and when he is present shall preside at all meetings of Congregation held for conferring degrees and at all meetings of Convocation and of The Board.

5.2 The Pro-Chancellor shall, in relation to the University, take precedence before all other members of the University except the Chancellor and except the President/Vice-Chancellor when acting as chairman of congregation or convocation. The Pro-Chancellor shall Chair all meetings of the Governing Council, and in the absence of the Chancellor to chair all meetings of Convocation and Congregation.

#### **CLAUSE 6: FUNCTIONS OF THE BOARD OF TRUSTEES AND THE**

## **GOVERNING COUNCIL**

- 6.1 Subject to the provisions of these Rules and Regulations relating to the Visitor, the Board shall be the Supreme overseer of the University and shall be charged with the overall superintendence of the policy formulation, particularly but not limited to programmes, employment, and property of the University.
- 6.2 There shall be a Council to be known as the Governing Council which shall, subject to the directions of The Board, be the governing body, charged with general exercise of control over policy application in all spheres of University management and finances of the University; and perform such other functions of The Board as The Board may from time to time delegate to it, including public relations.
- 6.3 The Board of Trustees shall constitute the Governing Council having regard to this Rules and Regulations.
- 6.4 The Board shall ensure that proper accounts of the University are kept and that accounts of the University are audited annually by an independent firm of auditors approved by The Board and that an annual report is published by the University together with certified copies of the said accounts as audited.
- 6.5 Subject to these Rules and Regulations, The Board and the Governing Council may each make rules for the purpose of exercising any of their respective functions or of regulating their own procedure.
- 6.6 Bye-Law made under Paragraph (5) above by the Governing Council shall not come into force unless approved by The Board; and in so far as any rules so made by that committee conflict with any directions given by The Board (whether before or after the coming into force of the Bye-Law in question), the directions of The Board shall prevail.
- 6.7 There shall be paid to the members of The Board, of the Governing Council and of any other committee set up by The Board respectively allowances in respect of traveling and other reasonable expenses as may not have been settled by any other entities of the organization of the proprietors, at such rates as may from time to time be fixed by The Board.
- 6.8 The Board shall meet as and when necessary for the performance of its functions under these Rules and Regulations, and shall meet at least once in every year.
- 6.9 The Governing Council shall meet as and when necessary for the performance of its functions under these Rules and Regulations, and shall meet at least three times in every year and prior to each meeting of The Board.
- 6.10 If requested in writing by any five members of The Board or of members of the Governing Council, the Chairman shall within twenty-eight days after such request call a meeting of The Board or the Governing Council as the case may be. The request shall specify the business to be considered at the meeting and no business not so specified shall be transacted at that meeting.

## **CLAUSE 7: FUNCTIONS OF THE PRESIDENT/VICE-CHANCELLOR**

- 7.1 The President/Vice-Chancellor shall, in relation to the University, take precedence before all other members of the University except the Chancellor and, subject to Clause 5 of these Rules and Regulations, except the Pro-Chancellor and any other person for the time being acting as Chairman of the The Board.
- 7.2 Subject to Clauses 6 & 7 of these Rules and Regulations and the provisions of these Rules and Regulations relating to the Visitor, the President/Vice-Chancellor shall have the general function, in addition to any other functions conferred on him or otherwise, of directing the activities of the University, and shall to the exclusion of any other person or authority be the chief executive and academic officer of the University and chairman of the Senate.

**CLAUSE 8: FUNCTIONS OF THE SENATE &  
ADMINISTRATIVE COMMITTEE**

8.1 Subject to Clause 6 of these Rules and Regulations and Paragraphs (3) and (4) below, and to the provisions relating to the Visitor, it shall be the general function of the Senate to organize and control the teaching of the University, the admission to undergraduate and postgraduate courses according to regulations of government, and the discipline of students, and to promote research at the University.

8.2 Without prejudice to the generality of Paragraph (1) above and subject as there mentioned, it shall in particular be the function of the Senate to make provision for:

- a) the establishment, organization and control of campuses, colleges, faculties, departments, institutes and other teaching and research units of the University, and the allocation of responsibility for different branches of learning;
- b) the organization and control of courses of study at the University and of the examinations held in conjunction with those courses, including the appointment of examiners, both internal and external;
- c) the award of degrees, and such other qualifications as may be prescribed, in connection with examinations held as aforesaid and any other incidental function/task that will enable the Senate carry out this function and responsibility as the circumstances may arise.
- d) the making of recommendations to The Board with respect to the award of any person of an honorary fellowship or honorary degree or the title of professor emeritus;
- e) the establishment, organization and control of halls of residence and similar institutions at the University;
- f) the supervision of the welfare of students at the University and the regulation of their conducts;
- g) the granting of fellowships, scholarships, prizes and similar awards in so far as the awards are within the control of the University; and
- h) determining what descriptions of dress shall be academic dress for the purposes of the University, and regulating the use of academic dress.
- i) The Senate shall not establish any new campus, colleges, faculty, department, school, institute or other teaching and research units of the University, or any hall of residence or similar institution at the University, without the express approval of the Governing Council or The Board of Trustees.

8.4 Subject to these Rules and Regulations, the Senate may make regulations for the purpose of exercising any function conferred on it either by the foregoing provisions of this Clause or otherwise, or for the purpose of making provision for any matter for which provision by regulations is authorized.

8.5 Regulations shall provide that at least one of the persons appointed as the examiners at each final or professional examination held in conjunction with any course of study at the University is not a teacher at the University but is a teacher of the branch of learning to which the course relates at some other university of high repute.

8.6 Subject to a right of appeal to Council from a decision of the Senate under this Paragraph, the Senate may deprive any person of any degree, diploma or other award of the University which has been conferred upon him if after due enquiry he is shown to have been guilty of dishonorable or scandalous conduct in gaining admission into the University or obtaining that award.

8.7 Subject to the provisions of these Rules and Regulations, it shall be the function of the Administrative Committee to advise the President/Vice-Chancellor and take decisions,

including recommendations to Council and the Board on all matters of the general function, in addition to any other functions conferred on the President/Vice-Chancellor by these Rules and Regulations or otherwise, in directing the activities of the University, except as it relates to matters on which Senate is conferred with exclusive jurisdiction.

**CLAUSE 9: TRANSFER OF PROPERTY, FUNCTIONS, etc.**

9.1 All property held by or on behalf of the Adventist Seminary of West Africa shall, by virtue of this Paragraph and without further assurance, vest in the University and be assigned by it to the University for its purposes.

9.2 The provisions of Schedule 2 to these Rules and Regulations shall have effect with respect to, and to matters arising from, the transfer of property by this Clause and with respect to the other matters mentioned in that Schedule.

**CLAUSE 10: POWER OF THE UNIVERSITY TO MAKE BYE LAWS**

(10.1) Subject to these Rules and Regulations, the University may make Laws for any of the following purposes, that is to say -

- a) making provision with respect to the composition and constitution of any authority of the University;
- b) specifying and regulating the powers and duties of any authority of the University, and regulating any other matter connected with the University or any of its authorities;
- c) regulating the admission of students which is the responsibility of the University, and their discipline and welfare;
- d) determining whether any particular matter is to be treated as an academic or a non-academic matter for the purposes of these Rules and Regulations, regulation or other instrument made thereunder; or
- e) making provision for any other matter for which provision by Law is authorized or required by these Rules and Regulations.

10.2 The Provisions contained in Schedule 3 to these Rules and Regulations shall be deemed to have come into force on the commencement of these Rules and Regulations and shall be deemed to have been made under this Clause.

10.3 The power to make Bye-Laws conferred by this Clause shall not be prejudiced or limited in any way by reason of the inclusion or omission of any matter in or from the Provisions contained in Schedule 3 herein.

**CLAUSE 11: MODE OF EXERCISING POWER TO MAKE BYE LAWS**

11.1 The power of the University to make Bye-Laws shall be exercised in accordance with the provisions of this Clause and not otherwise.

11.2 A proposed Bye-Law shall not become effective unless it has been approved:-

- a) at a meeting of the Senate, by a vote of not less than two-thirds of the members present and subsequently approved by The Board upon recommendation of the

Governing Council by a vote of not less than two-thirds of the members present;  
OR

- b) at a meeting of the ADCOM, by a vote of not less than two-thirds of the members present and subsequently approved by the BOT and ratified by The Board by a vote of not less than two-third of the members present; OR
  - c) at a meeting o the Governing Council, by a vote of not less than two-third of the members present and subsequently ratified by The Board by; OR
  - d) at a meeting of The Board by a majority vote of members present.
- 11.3 A proposed Bye-Law may originate either in the Senate or in the The Board, and may be approved as required by Paragraph (2) above by either one of those bodies before the other.
- 11.4 A Bye- Law which -
- a) makes provision for or alters the composition or constitution of The Board, the Governing Council, the Senate or any other authority structure of the University;  
OR
  - b) provides for the establishment of a new campus or college or for the amendment or revocation of any Bye-Law whereby a campus or college is established
  - c) SHALL NOT come into operation unless it has been approved by the proprietors.

11.4 For the purposes of interpretation of commencement, a Bye-Law or Rules and Regulations shall be deemed as made and become operative from the date on which it is duly approved by The Board, or from the date on which it is duly approved by the Senate having been approved by The Board, as the case may be or, in the case of a Law falling within Paragraph (4) above, from the date on which it is approved by the proprietors.

## **CLAUSE 12: POWER OF VISITOR TO DECIDE MEANING OF LAWS**

- (1) In the event of any doubt or dispute arising at any time as to the meaning of These Rules and Regulations, the Visitor may intervene and make such decision thereon as he shall think fit.
- (2) The decision of the Visitor on any matter referred to him under this Clause shall be binding upon the authorities, staff and students of the University.

Provided that nothing in this Paragraph shall affect any power of a court of competent jurisdiction to determine whether any provision of a Law is wholly or partly void as being *ultra vires* or as being inconsistent with the Constitution of the Federation.

- (3) The foregoing provisions of this Clause shall apply in relation to any doubt or dispute as to whether any matter is for the purposes of these Rules and Regulations an academic or a non-academic matter as they apply in relation to any such doubt or dispute as is mentioned in Paragraph (1) above; and accordingly the references in Paragraph (2) above to any question as to the meaning of any provision of these Rules and Regulations shall include references to any question as to whether any matter is for the said purposes an academic or a non-academic matter.

## **SUPERVISION AND DISCIPLINE**

### **CLAUSE 13: THE VISITOR**

- (1) The Visitor of the University shall be the President of the General Conference of Seventh-day Adventists.

- (2) The Visitor as the circumstances may require, shall conduct a visitation of the University or direct that such a visitation be conducted by any persons as may be nominated by him and in respect of any of the affairs of the University.
- (3) It shall be the duty of the bodies and persons comprising the University -
  - a) to make available to the Visitor, and to any other persons conducting a visitation in pursuance of this Clause, such facilities and assistance as he or they may reasonably require for the purposes of a visitation; and
  - b) to give effect to any instructions consistent with the provisions of these Rules and Regulations which may be given by the Visitor in consequence of a visitation.

#### **CLAUSE 14: REMOVAL OF CERTAIN MEMBERS OF THE BOARD OF TRUSTEES OR GOVERNING COUNCIL**

- (1) If it appears to The Board that a member of The Board (other than the Chancellor, or the Pro-Chancellor) should be removed from office on the ground of misconduct or for any other reason, The Board shall by a two-thirds vote of members present remove the person from office.
- (2) If it appears to the Board of Trustees that a member of the Governing Council (other than the Pro-Chancellor, or the President/Vice-Chancellor or any other appointee of the Board of Trustees) should be removed from office on the ground of misconduct or for any other reason, the Board of Trustees shall by a two-thirds vote of members present remove the person from office at a meeting where a notice of such is duly given.

#### **CLAUSE 15: REMOVAL AND DISCIPLINE OF ACADEMIC, ADMINISTRATIVE & TECHNICAL STAFF**

- (1) If it appears to the Governing Council that there are reasons for believing that any person employed as a member of the academic or administrative or technical staff of the University other than the President/Vice-Chancellor or any other appointee of the Board of Trustees, should be removed from his office or employment on the ground of misconduct or for any other reason the Governing Council shall so remove him after first affording him an opportunity to make representations in person on the matter to the Council or any other body set up by the Governing Council for that purpose.
- (2) The President/Vice-Chancellor may, in case of misconduct by a member of staff which in the opinion of the President/Vice-Chancellor is prejudicial to the interests of the University, suspend such member and any such suspension shall forthwith be reported to the Governing Council.
- (3) For cause, any member of staff, save the President/Vice-Chancellor or any other appointee of the Board of Trustees, may be suspended from his duties or his appointment may be terminated by Governing Council; and for the purposes of this Paragraph "cause" means -
  - a) conviction by any court of law for any offence which the Board or Council considers to be such as to render the person concerned unfit for the discharge of the functions of his office; or
  - b) any physical or mental incapacity which the Council, after obtaining medical advice, considers to be such as to render the person concerned unfit to continue to hold his office; or



- c) conduct of a scandalous or other disgraceful or immoral or perverted nature which the Council considers to be such as to render the person concerned unfit to continue to hold his office; or
  - d) conduct such as sidelines or conflict of interest, or cultism or insubordination or any other which the Council considers to constitute failure or inability of the person concerned to discharge the functions of his office or to comply with the terms and conditions of his service.
- (4) Any persons suspended pursuant to Paragraph (2) or (3) above shall be on half pay and the Council shall within a reasonable period not extending beyond three months consider the case against that person and come to a decision as to whether -
  - a) to continue the suspension order;
  - b) to reinstate such person in which case the Council shall restore his full emoluments to him with effect from the date of suspension;
  - c) to terminate the appointment of the person concerned; or
  - d) to dismiss the person concerned from service; or
  - e) whether to take such lesser disciplinary action against such person (including the restoration of such proportion of his emoluments that might have been withheld) as the Council may determine; and in any case where the Council, pursuant to this Clause, decides to continue a person's suspension or decides to take further disciplinary action against a person, the Council shall before the expiration of a period of three months from such decision come to a final determination in respect of the case concerning any such person.
- (5) It shall be the duty of the person by whom an instrument of removal is signed in pursuance of Paragraph (1) above to use his best endeavors to cause a copy of the instrument to be served as soon as is reasonably practicable on the person to whom it relates.
- (6) Nothing in the foregoing provisions of this Clause shall prevent the Council from making regulation for the discipline of other categories of staff and workers of the University as may be prescribed.
- (8) Legal or other impersonal representations before University Committees or Council is not permitted.

#### **CLAUSE 16: REMOVAL OF EXAMINERS**

- (1) If it appears to the President/Vice-Chancellor that a person appointed as an examiner for any examination of the University ought to be removed from his office or appointed, then, except in such cases as may be prescribed, he may, after affording to the examiner an opportunity of making representations in person on the matter to the President/Vice-Chancellor, remove the examiner from the appointment by an instrument in writing signed by the President/Vice-Chancellor and, subject to the provisions of regulations made in pursuance of Clause 15(5) of these Rules and Regulations, the President/Vice-Chancellor may appoint an appropriate person as examiner in the place of the examiner removed in pursuance of this Paragraph.
- (2) It shall be the duty of the President/Vice-Chancellor, on signing an instrument of removal in pursuance of this Clause, to use his best endeavors to cause a copy of the instrument to be served as soon as reasonably practicable on the person to whom it relates.

#### **CLAUSE 17: DISCIPLINE OF STUDENT**

- 1) Subject to the provisions of this CLAUSE, where it appears to the President/Vice-Chancellor that any student of the University has been guilty of misconduct, the

President/Vice-Chancellor may, without prejudice to any other disciplinary powers conferred on him by Law or regulations, direct -

- a) that the student shall not, during such period as may be specified in the direction, participate in such activities of the University, or make use of such facilities of the University, as may be so specified; or
  - b) that the activities of the student shall, during such period as may be specified in the direction, be restricted in such manner as may be so specified; or
  - c) that the student be rusticated for such period as may be specified in the direction; or
  - d) that the student be expelled from the University.
- (2) Where a direction is given under Paragraph (1)(c) or (d) above in respect of any student, the student may, within the prescribed manner, appeal from the direction to the Governing Council; and where such an appeal is brought, the Governing Council shall, after causing such inquiry to be made in the matter as the Council considers just, either confirm or set aside the direction or modify it in such manner as the Council thinks fit.
- (3) The fact that an appeal from a direction is brought in pursuance of the last foregoing Paragraph shall not affect the operation of the direction while the appeal is pending.
- (4) The President/Vice-Chancellor may delegate his powers under this Clause to a disciplinary board consisting of such members of the University as he may nominate.
- (5) Nothing in this Clause shall be construed as preventing the restriction or termination of a student's activities at the University otherwise than on the ground of misconduct.
- (6) It is hereby declared that a direction under Paragraph (1)(a) above may be combined with a direction under Paragraph (1)(b) above.
- (7) Legal or other impersonal representations before University Committees, Governing Council or the Board of Trustees is not permitted.

## **MISCELLANEOUS AND GENERAL**

### **CLAUSE 18: EXCLUSION OF DISCRIMINATION (Racial, Religious, etc..)**

No person shall be required to satisfy requirements as to any of the following matters, that is to say, race, (including ethnic grouping), sex, birth place or of family origin, nationality, or religious or political persuasion, as a condition of becoming or continuing to be a student at the University, the holder of any degree of the University or of any appointment or employment at the University, or a member of any body established by virtue of these Rules and Regulations; and no person shall be subjected to any disadvantage or accorded any advantage in relation to the University, by reference to any of those matters;

Provided that nothing in this Clause shall be construed as preventing the University from qualitative selectivity and imposing any disability or restriction on any of the aforementioned persons where such person is adjudged incapable to undertake, or willfully refuses, or fails on grounds of religious belief or political persuasion to undertake any duty generally and uniformly imposed on all such persons or any group of them which duty, having regard to its nature and the special circumstances pertaining thereto, is in the opinion of the University reasonably justifiable in the communal interest. This being for the fact that total commitment and leadership by example are highly extolled virtues at the University.

Provided also that nothing in this Clause shall be construed as preventing the University from imposing total disability and restriction on any of the aforementioned persons or any others where the University has reasonable grounds to believe that such a person is a member, or is sympathetic to the causes of, or may in any way facilitate the influence and activities of secret

cults, societies, and associations detrimental to social and spiritual harmony of the University and of society at large.

#### **CLAUSE 19: QUORUM AND PROCEDURE OF BODIES ESTABLISHED BY THESE RULES AND REGULATIONS**

Except as may be otherwise provided by Law or by regulations, the quorum and procedure of any body of persons established by these Rules and Regulations shall be such as may be determined by that body, but shall not in any case be less than five persons.

#### **CLAUSE 20: APPOINTMENT OF COMMITTEES, etc.**

- (1) Any body of persons established by these Rules and Regulations shall, without prejudice to the generality of the powers of that body, have power to appoint committees, which need not consist exclusively of members of that body, and authorize a committee established by it -
  - a) to exercise, on its behalf, such of its functions as it may determine; and
  - b) to co-opt members, and may direct whether or not co-opted members (if any) shall be entitled to vote in that committee.
- (2) Any two or more such bodies may arrange for the holding of joint meetings of those bodies, or for the appointments of committees consisting of members of those bodies, for the purpose of considering any matter within the competence of those bodies or any of them, and either of dealing with it or of reporting on it to those bodies or any of them.
- (3) Except as may be otherwise provided by Law or by regulations, the quorum and procedure of a committee established or meeting held in pursuance of this Clause shall be such as may be determined by the body or bodies which have decided to establish the committee or hold the meeting.
- (4) Nothing in the foregoing provisions of this Clause shall be construed as -
  - (a) enabling Laws to be made otherwise than in accordance with Clause 11 of this Law; or
  - (b) enabling the Senate to empower any other body to make regulations or to award degrees or other qualifications.
- (5) The Pro-Chancellor and the President/Vice-Chancellor or their designees shall be members of every committee of which members are wholly or partly appointed by Council (other than a committee appointed to inquire into the conduct of the officer in question); and the President/Vice-Chancellor shall be a member of every committee of which the members are wholly or partly appointed by Senate.

#### **CLAUSE 21: MISCELLANEOUS ADMINISTRATIVE PROVISIONS**

- (1) The Seal of the University shall be such as may be determined by The Board and approved by the Chancellor; and the affixing of the seal shall be authenticated by any member of the Council and by the President/Vice-Chancellor, SVP/Deputy Vice-Chancellor(s) or any other person authorized by Law.
- (2) Any document purporting to be a document executed under the seal of the University shall be received in evidence and shall, unless the contrary is proved, be deemed to be so executed.

- (3) Any contract or instrument which, if made or, executed by a person not being a body corporate, would not be required to be under seal may be made or executed on behalf of the University by any person generally or specially authorized to do so by the Council.
- (4) The validity of any proceedings of any body established in pursuance of these Rules and Regulations shall not be affected by any vacancy in the membership of the body or by any defect in the appointment of a member of the body or by any defect in the appointment of a member of the body or by reason that any person not entitled to do so took part in the proceedings.
- (5) Any member of any such body who has a personal interest in any matter proposed to be considered by that body shall forthwith disclose his interest to the body and shall not vote on any question relating to that matter.
- (6) The power conferred by these Rules and Regulations shall include the power to revoke or vary any bye-laws, rules and regulations
- (7) No stamp or other duty shall be payable in respect to any transfer of property to the University by virtue of Clause 9, Clause 19, or Schedule 2 to these Rules and Regulations.
- (8) Any notice or other instrument authorized or required to be served by virtue of these Rules and Regulations may, without prejudice to any other mode of service, be served by post.

#### **CLAUSE 22: INTERPRETATION**

- (1) In these Rules and Regulations, unless the context otherwise requires, the following expressions shall have the meanings hereby assigned to them respectively, that is to say:

“ these Rules and Regulations” means the legal instrument herein, that is Babcock University Rules and Regulations of 1999 as amended, which provides for the powers and functions of Babcock University and for other matters incidental thereto or connected therewith;

“campus” means the campus of the University at Ilishan or any other campus which may be established by the University;

“College, School and or Faculty” means any college, school and or faculty which may be established by the University;

“The Board” means the The Board of Trustees established by these Rules and Regulations for the University;

“Council” means the Governing Council established by these Rules and Regulations for the University;

“ADCOM” means Babcock University Administrative Committee or ADCOM;

“graduate” means a person on whom a degree (other than an honorary degree) has been conferred by the University;

“notice” means notice in writing;

President/Vice-Chancellor or VC means the Chief Executive Officer (CEO) President of the Institution;

“DVC” means Deputy Vice Chancellor or Senior Vice President of the University

“officer” does not include the Visitor;

“VP” means Vice President, and “SVP” means Senior Vice President of the Institution

“CoS” means Chief of Staff/Special Assistant to the President/VC

“prescribed” means prescribed by Law or regulations;

“professor” means a person designated as a professor of the University in accordance with provision made in that behalf by law or by regulations;

“professorial member” means a person designated as a professor or associate professor of the University in accordance with provision made in that behalf by law or by regulations;

“property” includes rights, liabilities and obligations;

“regulations” means regulations made by the Senate;

“Senate” means the senate of the University established pursuant to Clause 3(1) (c) of these Rules and Regulations;

“student” means an undergraduate or post-graduate and any person of such description as may be prescribed for the purposes of this definition;

“teacher” means a person holding a full time appointment as a member of the teaching or research staff of the University;

“Undergraduate” means a person in *statu pupillari* at the University other than:-

- (a) a graduate; and
- (b) a person of such description as may be prescribed for the purposes of this definition;

‘Bye-Law’ means Rules and Regulations made by the University pursuant to this Rules and Regulations

“the University” means Babcock University as established by the Education (National Minimum Standards and Establishment of Institutions Amendment Act 1993;

“SDA” means the Seventh-day Adventist Church as incorporated in the territory under reference;

“Constituency” means any of the Unions or Conferences of the Seventh-day Adventist Church in Nigeria

“for cause” when used in connection with removal from an elected or appointed position shall include but not be limited to misdeeds, incompetence, incompatibility or lack of team work by an elected or appointed person.

- (2) No office or appointment in any capacity under these Rules and Regulations shall be or be construed to be an office of emolument under the Federal Republic of Nigeria.
- (3) It is hereby declared that where in any provision of these Rules and Regulations it is laid down that proposals are to be submitted or a recommendation is to be made by one authority to another through one or more intermediate authorities, it shall be the duty of every such intermediate authority to forward any proposals or recommendations received by it in pursuance of that provision to the appropriate authority, but any such intermediate authority may, if it thinks fit, forward therewith its own comments thereon.

### **CLAUSE 23: AMENDMENT**

- (1) These Rules and Regulations may be amended when the need arises
- (2) Such amendment provision or provisions thereto shall not be valid and shall not have any effect whatsoever except upon the happening of any or all of the following:
  - a) If the proposed amendment provision or provisions is/are either jointly or severally initiated by the President/Vice Chancellor, Senate and or ADCOM and upon recommendation to the Council and Board of Trustees, it is/they are approved and ratified by two-third majority of all the members of the respective body, that is, the Council and the The Board present;
  - b) If the proposed amendment provision or provisions is/are initiated and voted by two thirds majority of all the members of the Council and upon recommendation to The Board, it is/they are approved and ratified by two third majority of members of the The Board present.
  - c) If the proposed amendment provision or provisions is/are initiated by The Board, and such proposed amended provision or provisions is/are approved and ratified by two third majority of all the members of the The Board present.

## **SCHEDULES**

### **Schedule 1**

#### **PRINCIPAL OFFICERS OF THE UNIVERSITY**

**1**

#### **THE CHANCELLOR**

- (1) The Chancellor shall be the President of the West-Central Africa Division of Seventh-day Adventists, or any person acting in that capacity, by virtue of his elected office in the organization of the proprietors.
- (2) The Chancellor who shall be the Chairman of The Board may, unless where the context does not so permit, delegate any of his functions in writing to the Pro-Chancellor: Provided that any such delegation shall be revocable at will and shall not preclude the Chancellor from exercising any of his functions.
- (3) The Chancellor may request information concerning the general conduct of the affairs of the University from the Pro-Chancellor and the President/Vice-Chancellor whose duty it shall be to provide the same.
- (4) The Chancellor automatically ceases to function in this official capacity from the moment he vacates his office to which he was elected by the proprietors.

**2**

#### **THE PRO-CHANCELLOR**

- (1) The Pro-Chancellor shall be as appointed by the Executive Committee of the Union Conference of Seventh-day Adventist Church within the Union territory in which the University is located and which appointment shall be ratified by the Executive Committee of the West-Central Africa Division or successor-in-title;
- (2) The Pro-Chancellor shall be the Chairman of the Governing Council and shall act for the Chancellor in the absence or incapacitation of the Chancellor when so authorized by The Board. The Pro-Chancellor shall, at the request of the Chancellor, also exercise for the Chancellor any functions specially delegated to him in writing.
- (3) The Pro-Chancellor automatically ceases to function in this official capacity from the moment he vacates his office to which he was elected by the constituency.

### 3

#### **THE PRESIDENT/VICE-CHANCELLOR**

- (1) Subject to the provisions of this paragraph, the President/Vice-Chancellor shall be an academic of a minimum of four years on the full rank of Professor, knowledge and experience in the philosophy and practice of the Adventist Education appointed or removed from office by The Board.
- (2) The President/Vice-Chancellor shall hold office for a period of five years in the first instance and upon such terms and emoluments as shall, subject to the Orders, be determined until he/she resigns or he is removed from office for cause by The Board. Unless so removed, he/she shall be eligible for re-appointment for another consecutive five-year term in line with the sessions of the proprietors. Any mid-term appointments terminate at the end of the normal quinquennium.
- (3) Subject to this paragraph, the President/Vice-Chancellor shall hold office on such terms as to emoluments and otherwise as may be specified in his instrument of appointment.
- (4) The President/Vice-Chancellor shall exercise general supervision over the University and shall have a general responsibility to The Board and the Governing Council for maintaining and promoting the efficiency and good order of the University, and it shall be the duty of the President/Vice-Chancellor to see that the provisions of the Orders and Regulations are observed, and he/she may exercise such powers as may be necessary or expedient for that purpose.
- (5) The President/Vice-Chancellor shall by virtue of his office, be a member of the Board of Trustees, member and Executive Secretary to the Governing Council and serve as member and Chairman of the Senate. He/she shall also be a member and Chairman of Academic Congregation and any other authority of the University set up by Senate and any Council or Committee appointed by any of those bodies.
- (6) The President/Vice-Chancellor may refuse to admit any person as a student without assigning any reason. He/she shall have power to suspend any student without assigning any reason. He/she shall have power to suspend any student from any class or classes and may exclude any student from any part of the University or its precincts. He/she shall report every such suspension or exclusion to the Governing Council and the Senate at their next meeting following such suspension or exclusion.
- (7) In the discharge of his responsibility for the discipline of students in the University, the President/Vice-Chancellor shall have power to issue written instructions which, on their being issued, shall come into force but shall be submitted by him to the Senate and the Council for ratification with such modifications, if any, as the Council may deem necessary.

### 4

#### **OTHER PRINCIPAL OFFICERS OF THE UNIVERSITY, etc.**

- (1) **Senior Vice President(s)/Deputy Vice-Chancellor(s)**

- a) There shall be, according to need as established by The Board, Senior President(s)/Deputy Vice-Chancellor(s) - for Academic Administration and for Management Services - in that order of ranking as the needs arise, whose appointment by The Board shall be upon the recommendation of the President/Vice-Chancellor. It shall be the responsibility of a Senior Vice President/Deputy Vice-Chancellor to assist the President/Vice-Chancellor in the discharge of his functions as prescribed by law and, subject to the Regulations, in the absence of the President/Vice-Chancellor, exercise and perform such of the functions of the President/Vice-Chancellor or, if the President/Vice-Chancellor should be incapacitated, the Board may so delegate.
- b) Where there is no suitably qualified full Professor, an Associate Professor may be appointed in an acting capacity for a maximum period of one academic session before a suitable alternative is found.
- c) A SVP/DVC shall hold office for such period and on such remuneration and other terms and conditions as The Board may determine.
- d) Where a distinction is made in function by the appointment of two SVPs/DVCs, the SVP/DVC for Academic Administration shall be the chief academic officer assisting the President/Vice-Chancellor in matters relating to academic staff recruitment and ranking, academic planning, policy formulation and implementation, programmes and records as well as custodian of academic standards on admissions, registration and graduation.
- e) Where a distinction is made in function by the appointment of two SVPs/DVCs, the SVP/DVC for Management Services shall be the chief administrative officer assisting the President/Vice-Chancellor in the day-to-day administration of the University except as regards matters for which the SVP/DVC for Academic Administration or any other Principal Officer of the University are responsible.

**(2) Vice President for Financial Administration/University Bursar**

- a) The Board shall appoint a VP Financial Administration/University Bursar upon the recommendation of the President/Vice Chancellor.
- b) The VP Financial Administration/University Bursar shall be a full-time officer and shall be responsible to the President/Vice-Chancellor for the day-to-day administration and control of the financial affairs of the University.
- c) The VP Financial Administration/University Bursar shall hold office for such periods and on such remuneration and other terms as the The Board may determine.

**(3) Vice President for Development & Strategy**

- a) The Board shall appoint a Vice President for Development & Strategy, upon the recommendation of the President/Vice Chancellor for such periods and on such remuneration and other terms and conditions as The Board may determine.
- b) The Vice President for Development & Strategy shall be a full-time Principal Officer of the University and shall be responsible to the President/Vice-Chancellor for the formulation and coordination of policy implementation in the areas of fund-raising, development and physical planning, as well as maintenance services.

**(4) The Vice President for Students Affairs**



- a) The Board shall appoint a VP Student Affairs upon the recommendation of the President/Vice Chancellor, for such periods and on such remuneration and other terms and conditions as The Board may determine.
- b) The Vice President for Students Affairs shall be a full-time Principal Officer of the University responsible to the President/Vice-Chancellor in such areas of student life as may include but is not limited to accommodation, feeding, deportment and discipline and social activities, etc..

## 5

### **ASSOCIATE OFFICERS OF THE UNIVERSITY**

#### **(1) The Chief of Staff/Special Assistant to the President/Vice Chancellor**

- (a) The Chief of Staff/Special Assistant to the President/Vice Chancellor shall, upon recommendation of the President/Vice Chancellor, be appointed by the Governing Council on such terms and conditions of service as the Council may prescribe;
- (b) The CoS shall coordinate the Secretariat affairs of the President/VC as well as the activities of various Units and services of the University as may be required by the President/VC
- (c) The CoS shall assist the President/VC in the awesome responsibility of providing leadership and direction for the University;
- (d) The CoS shall represent the President/VC on assignments/committees as requested by the President, and liaise between the President/VC and various publics.

#### **(2) Associate Vice-President for Enrolment & Records/Registrar**

- a) The Governing Council shall appoint an AVP for Enrolment & Records/Registrar upon the recommendation of the President/Vice Chancellor and shall hold office for such period and on such terms as to the emoluments and otherwise as may be specified by Council.
- b) The AVP for Enrolment & Records/Registrar shall be a full-time Officer and shall responsible to the Senior Vice President/Deputy Vice-Chancellor on matter of Student enrolment (admissions, registration, matriculation, examination processing, graduation, etc..) and Records (custody of seal, student academic and citizenship records, official meetings of all levels of University Administration, etc..).
- c) The person holding the office of AVP for Enrolment & Records/Registrar shall, by virtue of that office be Secretary of ADCOM, Senate and Congregation or any other official tribune of the university as may be prescribed by the President/Vice Chancellor.
- d) Any questions as to the scope of the responsibilities of the AVP for Enrolment & Records/Registrar shall be determined by the ADCOM.

#### **(3) Associate Vice-President for Library & Information Resources/Librarian**

- a) The Board shall appoint an Associate Vice-President for Information Resources & Library/ University Librarian upon the recommendation of the President/Vice Chancellor and shall be responsible to the Senior Vice President/Deputy Vice-Chancellor for the overall administration of the Library and the coordination of library services in the University and its campuses, colleges, faculties, schools, departments and institutes and other teaching or research units.

- b) The AVP Information Resources & Library/University Librarian shall hold office for such period and on such terms as to the emoluments and otherwise as may be specified.
- c) Any questions as to the scope of the responsibilities of the AVP Information Resources & Library/Librarian shall be determined by the ADCOM.

**(4) Associate Vice President(s) for Finance/Deputy Bursar(s)**

- (a) Council shall appoint (a) Deputy Bursar(s)/Associate Vice President(s) upon the recommendation of ADCOM, and shall hold office for such period and on such terms as to the emoluments and otherwise as may be specified;
- (b) A Deputy Bursar/Associate Vice President so appointed shall be responsible to the VP, Financial Administration/University Bursar for specific pre-defined duties of the VP's responsibilities;
- (b) Any questions as to the scope of the responsibilities of an Associate Vice President/Deputy Bursar shall be determined by the ADCOM.

**(5) Associate Vice President for Institutional Effectiveness**

- (a) Council shall appoint an Associate Vice President(s) upon the recommendation of ADCOM, and shall hold office for such period and on such terms as to the emoluments and otherwise as may be specified;
- (b) An Associate Vice President so appointed shall be responsible to the SVP for specific pre-defined duties of the SVP's responsibilities especially relating to Academic Planning, Quality Assurance and Research and International Collaborations;
- (c) Any questions as to the scope of the responsibilities of an Associate Vice President for Institutional Effectiveness shall be determined by the ADCOM.

**6**

**ASSISTANT OFFICERS OF THE UNIVERSITY**

**(1) Director/Head, Legal Services**

- (a) The Director/Head of Legal Services shall, upon recommendation of the President/VC, be appointed by the Governing Council on such terms and conditions of service as the Council may prescribe;
- (b) The Director/Head of Legal Services shall be in charge of all legal matters of the University
- (c) He/She shall represent the University Authorities in all Legal matters
- (d) He/She shall be offering Legal Advice to University Authorities from time to time
- (e) He/She shall be member of committees, panels or other bodies as shall be constituted by the university from time to time.
- (f) He/she shall be responsible for the preparation & perfection of documents particularly of legal nature
- (g) The Director/Head of Legal Services shall liaise and work with the University's solicitors, particularly in the Court of Law and other incidental matters;
- (h) The Director/Head of Legal Services who shall be the head of the legal personnel in the service of the University, shall be responsible to the President/VC to give advice in direct consultations and on committees of the university as may be required by the President/VC.
- (i) He/She shall coordinate and direct activities of other appointees in his/her unit.

**(2) Director, Quality Assurance & Control Unit**

- (a) The Director, Quality Assurance & Control shall, upon recommendation of the President/VC be appointed by the Governing Council on such terms and conditions of service as the Council may prescribe;
- (d) The Director, Quality Assurance & Control is responsible to the Associate Vice President for Institutional Effectiveness for all aspects of and activities connected with the maintenance of a “First Class” standards in the totality of the university’s life, including:
  - i. Ensuring exceptional quality levels in all academic areas, such as curriculum planning, instruction and delivery of content, testing and evaluation, as well as administrative unit processes and services;
  - ii. Giving orientation to new staff members and continuing education to staff as to institutional requirements and generally ensuring quality of process and structure of job performance evaluation and promotion for academic and non-academic staff;
  - iii. Measuring and enforcing compliance with institutional standards on quality in scholarship standards and administration;
  - iv. Ensuring quality in student services delivery including hostel facilities standards and maintenance;
  - v. Working with the University Pastor to monitor and enrich the quality of worship experience of staff and students, and assessment of Spiritual Masterplan implementation;
  - vi. Coordinating unit efforts to achieve quality of classroom security, sanitation, and integrity of social interaction, relationships and activities;
  - vii. Liaising with governmental, professional and other agencies and organizations for compliance with regulations and currency of trends and innovations in quality assurance and control in education and society;
  - viii. Any other areas as may be directed by the President/VC

**(3) Assistant Vice President for Enrolment & Records/Deputy Registrar(s)**

- (a) The Council shall appoint (a) Deputy Registrar(s)/Assistant Vice President(s) upon the recommendation of ADCOM, and shall hold office for such period and on such terms as to the emoluments and otherwise as may be specified;
- (c) A Deputy Registrar/Assistant Vice President so appointed shall be responsible to the AVP, Enrolments &Records/Registrar for specific pre-defined duties of the AVP’s responsibilities;
- (e) Any questions as to the scope of the responsibilities of an Assistant Vice President/Deputy Registrar shall be determined by the ADCOM.

**(4) Deputy University Librarian(s)/Assistant Vice Presidents(s)**

- (a) The Council shall appoint (a) Deputy University Librarian(s)/Assistant Vice President(s) upon the recommendation of ADCOM, and shall hold office for such period and on such terms as to the emoluments and otherwise as may be specified;
- (b) A Deputy University Librarian/Assistant Vice President so appointed shall be responsible to the AVP, Information Enrolments &Records/Registrar for specific pre-defined duties of the AVP’s responsibilities;

- (c) Any questions as to the scope of the responsibilities of an Associate Vice President/Deputy University Librarian shall be determined by the ADCOM.

**(5) University Pastor**

- (a) The Council shall appoint a University Pastor upon the recommendation of ADCOM, and shall hold office for such period and on such terms as to the emoluments and otherwise as may be specified;
- (b) The University Pastor shall be a credentialed minister of the Seventh-day Adventist Church whose primary to the President/VC shall be to provide vibrant spiritual leadership in coordinating all religious activities of the University.
- (c) More specifically, the University Pastor is responsible to the President/Vice-Chancellor for the following functions:
  - (1) Serve as the Senior Pastor of the University Church in accordance with current published worldwide policies of the Seventh-day Adventist Church:
    - a. Working with elected leaders of the Church in the planning and implementation of all the services of the Church;
    - b. Preparing a spiritual activities calendar for the Church in consultation with the President/Vice-Chancellor and modeling a well-ordered pulpit and Church programme for students, staff and all members of and guests of the University;
    - c. Serving as liaison between the University Church and the Constituent Conference of the Seventh-day Adventist Church;
    - d. Serving on various committees and carrying out other duties as may be decided by the University Administration.
  - (2) Supervise the Chaplaincy Unit in providing specialized services to the University academic/non-academic staff and students by:
    - a. Teaching between six to eight credits per semester as may be assigned by the University Administration.
    - b. Leading out in visitation, counseling (pre-marital, marital, career, spiritual, psychological), weddings, funerals, baptisms, etc..
    - c. Providing periodic written reports to the University Administration on various aspects of his assignments and any other pertinent matters as may be directed by the President/ Vice-Chancellor;

**6**

**ADMINISTRATION OF THE UNIVERSITY:**

**(1) The President/Vice-Chancellor:-**

The President/Vice-Chancellor shall be the Academic and Administrative head of the University

**(2) The Senior Vice President(s)/Deputy Vice-Chancellor(s):-**

The functions of the President/Vice-Chancellor as Chief Executive Officer of the University may be performed by the SVP/Deputy Vice-Chancellor, and where a distinction is made in function by the appointment of two deputies (SVP) for Academic Administration and for Management Services in that order, in the absence or incapacity of the President/Vice-Chancellor or whenever so directed by the Governing Council or Board of Trustees;

- (3) In the event of the simultaneous absence or incapacity of the President/Vice-Chancellor and Senior Vice President(s)/Deputy Vice-Chancellor(s) or whenever so directed by the Board of Trustees or Governing Council, the function of Chief Executive may be performed by the VP Financial Administration/University Bursar.
- (4) In the event of the simultaneous absence or incapacity of the President/Vice-Chancellor, SVP/DVC(s) and VP Financial Administration/University Bursar, or whenever so directed by the Board of Trustees or Governing Council, the function of Chief Executive may be performed by the VP, Development & Strategy.
- (5) In the event of the simultaneous absence or incapacity of the President/Vice-Chancellor, SVP/DVC(s), VP Financial Administration/University Bursar and VP, Development & Strategy or whenever so directed by the Board of Trustees or Governing Council, the function of Chief Executive may be performed by the VP, Students Affairs in that order of preeminence.
- (6) In this Section, “absence” means absence from Nigeria and “incapacity” means inability for any other valid reason not excluding illness, to perform the functions of the office concerned.

## 7

### **RESIGNATION AND RE-APPOINTMENT:**

- (1) Any officer mentioned in the foregoing provisions of this Schedule may resign his office:-
  - (a) in case of the Chancellor, by notice to the Visitor; and
  - (b) in case of the Pro-Chancellor, by notice to the Chancellor; and
  - (c) in the case of the President/Vice-Chancellor or any other Principal Officer, by notice directly to the Chancellor, and,
  - (1) in any other case, by notice to the Council.
- (7) Subject to paragraphs 1(4) and 2(3), above, a person who has ceased to hold an office so mentioned other-wise than by removal for misconduct shall be eligible for re-appointment to that office.

## **Schedule 2**

### **TRANSITIONAL PROVISIONS AS TO PROPERTY, FUNCTION, etc.**

#### **1 - TRANSFER OF PROPERTY TO UNIVERSITY**

Without prejudice to the generality of Clause 10(1) of these Rules and Regulations -

- (1) The reference in that Paragraph to property held by the Adventist Seminary of West Africa shall include a reference to the right to receive and give a good discharge for any grants or contributions which may have been voted or promised to the Adventist Seminary of West Africa.
- (2) All debts and liabilities of the Adventist Seminary of West Africa outstanding shall become debts and liabilities of the University.
- (3) All agreements, contracts, deeds and other instruments to which the Adventist Seminary of West Africa was a party shall, so far as possible and subject to any necessary modifications, have effect as if the University had been a party thereto in place of the Adventist Seminary of West Africa.
- (4) Documents not falling within sub-paragraph (3) above, including enactments, which refer whether specially or generally to the Adventist Seminary of West

Africa, shall be construed in accordance with that sub-paragraph so far as applicable.

- (5) Any legal proceedings or application to any authority pending by or against the Adventist Seminary of West Africa may be continued by or against the University.

## **2 - REGISTRATION OF TRANSFERS**

If the law in force at the place where any property transferred by these Rules and Regulations is situated provides for the registration of transfers of property of the kind in question (whether by reference to an instrument of transfer or otherwise), the law shall, so far as it provides for alterations of a register (but not for avoidance of transfers, the payment of fees or any other matters) apply with the necessary modifications to the transfer of the property aforesaid; and it shall be the duty of the body to which any property is transferred by these Rules and Regulations to furnish the necessary particulars of the transfer to the proper officer of the registration authority, and of that officer to register the transfer accordingly.

## **3 - TRANSFER OF FUNCTIONS, etc.**

- (a) The first meeting of The Board shall be convened by the Chancellor on such date and in such manner as he may determine.
  - (b) The first meeting of the Council shall be convened by the Pro-Chancellor on such date and in such manner as he may determine.
  - (c) The first meeting of the Senate as constituted by these Rules and Regulations shall be convened by the President/Vice-Chancellor on such date and in such manner as he may determine.
  - (d) Subject to regulations which may be made by the Senate after the date on which these Rules and Regulations is made, the faculties, faculty boards, and students of the University as constituted by these Rules and Regulations shall on that day become faculties, faculty boards and students of the University.
  - (a) Persons who are appointed as Deans or Vice Deans of Faculties or Schools or of any other office or position in any unit shall enter into their respective functions until new appointments are made in pursuance of the Provisions.
4. Subject to a positive evaluation of performance and work attitude, any person who was a member of the staff of the Adventist Seminary of West Africa shall become the holder of an appointment at the University with the status, designation and functions which correspond as nearly as may be to those which appertained to him as a member of that staff or such an employee.
  5. Nothing in paragraph 4 above shall be construed as restraining the University from re-assigning any member of staff of the Adventist Seminary of West Africa to any other function within the University or requiring additional training of employees in line with the re-structuring and re-organization of the institution for overall enhanced competence and productivity.

**Schedule 3**  
**BABCOCK UNIVERSITY LAW NO. 1**

**ARRANGEMENT OF ARTICLES**

**Article:**

1. The Board of Trustees
2. The Governing Council
3. The Senate
4. Administrative Committee
5. Academic Congregation
6. University Convocation
7. Organization of Faculties and Branches thereof
8. Faculty Boards
9. Deans of Faculty
10. Selection of certain principal officers
11. Creation of Academic Staff
12. Appointment of Academic Staff
13. Appointment of Administrative and Technical Staff
14. Interpretation
15. Citation

**1**

**THE BOARD OF TRUSTEES**

- (1) The Board of Trustees shall consist of members as appointed by the Executive Committee of the West-Central Africa Division of SDA, in its capacity as proprietors of the University, as follows:
  - a) President of the West-Central Africa Division of SDA, Chancellor (Chairman);
  - b) General Secretary of the West-Central Africa Division of SDA - (Vice-Chair)
  - c) Education Director of the West-Central Africa Division (Secretary);
  - d) Pro-Chancellor/Chairs of Councils of WAD institutions;
  - e) Presidents/Vice Chancellors of WAD institutions;
  - f) Treasurer of the West-Central Africa Division (WAD) of Seventh-day Adventists;
  - g) Vice Presidents for Financial Administration of WAD institutions;
  - h) Education Directors of WAD Constituent Union Fields;
  - i) Members appointed on The Board by the Proprietors by virtue of their positions within their organization.
  - j) Other persons not exceeding four in number who are professionals as may be appointed by the Proprietors;
- (2) Members of The Board appointed or elected under paragraph 1 (a) and (i) above shall hold office for the entire five-year term of The Board or whatever remains of the term

from the moment of appointment or election, provided that any member so appointed or elected shall cease to be a member of the Board of Trustees if he ceases to be a member of the body which appointed or elected him.

- (3) The quorum of the Board shall be decided by the Board.
- (4) The Chancellor shall preside at every General Meeting, or, in his absence whoever is duly designated by the proprietors to act for him.
- (5) Where the Board desires to obtain advice with respect to any particular matter, it may co-opt not more than two persons for that purpose; and the persons co-opted may take part in the deliberations of the Board at any meeting but shall not be entitled to vote.

## 2

### **THE GOVERNING COUNCIL**

(1) The Governing Council shall consist of not more than 40 (Forty) members, and of which not more than 40 per cent shall normally be individuals on the payroll of the Church organization as employees as follows:

- (a) the Pro-Chancellor, who shall Chair the Council;  
Other Union Field Presidents constituting the Constituency of the Seventh-day Adventist Church in Nigeria, who shall be the Vice-Chair(s);  
The President/Vice-Chancellor, who shall be the Secretary;  
General Secretaries, Treasurers and Education Directors of Union Fields of the Seventh-day Adventist Church in Nigeria;  
Three Conference President(s) from each of the constituent territory Union field(s) within the Seventh-day Adventist Church in Nigeria;  
14 Laymen & Women (10 Nationals; 4 Internationals) appointed by Council\*  
A Representative of Senate elected by Senate;  
A Non-Senate Member of Congregation elected by Congregation;  
A Representative of Non-Academic Staff elected by Non-Academic Staff;  
President of the Alumni Association or Representative;  
2 Members-at-Large\*\*  
A Representative of the Parents Consultative Forum

In Attendance:

- a) Legal Counsel
  - b) Associate Vice President/Deputy Registrar for General Administration, Council & Senate Affairs – Recording Secretary
- (2) The quorum of Council shall be decided by Council.
  - (3) Council shall have powers to regulate its own procedure according to the policies of the proprietor and Council.
  - (4) There shall be an Executive Committee (EXCO) of the BOT appointed by office, to run the matters pertaining to the BOT between statutory or extra-ordinary sessions of the BOT.
  - (5) Membership of the EXCO shall comprise the Pro Chancellor, President/Vice/Chancellor, Vice Chairs, Principal Officers, and a Legal Adviser\*\*\*

*\* Includes Legal Adviser; Industry Chieftains/Corporate Execs; Senior Academics; etc..*

*\*\* Member of the Community at large selected for contributions to the University, as recommended by the President/Vice Chancellor*

## 3

### **THE SENATE**

(1) The Senate shall consist of:



- a - President/ Vice-Chancellor (Chairman)
- b - SVP/Deputy Vice-Chancellor, Academic Administration (Vice-Chair)
- c - VP, Enrolment & Records/Registrar (Secretary)
- d - SVP/Deputy Vice-Chancellor, Management Services
- e - VP Financial Administration/University Bursar
- f - VP for Development & Strategy
- g - VP Students Affairs
- h - VP Information Resources & Library/University Librarian

- i - Persons for the time being, holding such appointments on the academic staff of the University as may be specified by the President/Vice-Chancellor (Deans of Faculties, Schools and Colleges, Heads of Department, Directors of Institutes/Programmes, etc...)
  - j - Two full-time member of the academic staff of the University, other than those already cited in this Clause, elected by the Congregation.
  - k - All Professors
  - l - Director, Quality Assurance & Control
  - m - Director of Academic Planning
  - n - Director/Head, Legal Services
  - o - Director, Foundation Diploma Programme
  - p - Director of Ellen G. White Research Centre
- (2) Other officials of the University whose attendance in Senate is statutory whether academicians or non include: University Pastor, Directors of Alumni and Corporate Affairs, and any other official so designated by the President/Vice-Chancellor.
  - (3) The members of the Senate mentioned under Paragraph (i), of sub-paragraph 4 (1) above, shall hold office for two academic years and shall be eligible for re-election.
  - (4) Incapacitation or resignation of the member elected by the Congregation for whatever reason shall necessitate a by-election in which the substitute shall serve the un-expired portion of the period of office of his predecessor.
  - (5) When upon any special occasion the Senate desires to obtain the advice of any person on any particular matter, the Senate may co-opt such person to be a member for a meeting or meetings as may be required, and such a person whilst so co-opted shall have all the rights and privileges of a member but shall not be entitled to vote on any matter.
  - (6) The President/Vice-Chancellor shall be the chairman at all meetings of the Senate when he is present; and in his absence, the SVP/Deputy Vice-Chancellor.
  - (7) The quorum of the Senate shall be one-quarter (or the nearest whole number less than one-quarter); and subject to paragraph (3) above, the Senate may regulate its own procedure.
  - (8) An elected member may, by notice to the Senate, resign his office.
  - (9) Subject to paragraph (11) below, there shall be elections for the selection of elected members which shall be held as prescribed on such day in the month of April or May in each year as the President/Vice-Chancellor may from time to time determine.
  - (10) An elected member shall hold office for the period of two years beginning with 1st August in the year of his election, and may be a candidate at any election held in pursuance of paragraph (9) above in the year in which his period of office expires, so however that no person shall be such a candidate if at the end of his current period of office he shall have held office as an elected member for a continuous period of six years or would have so held office had he not resigned it.
  - (11) No election shall be held in pursuance of this article in any year if the number specified in the certificate given in pursuance of paragraph (13) below does not exceed by more than one the figures which is thrice the number of those elected members holding office on the date of the certificate who do not vacate office during the year in pursuance of paragraph (10) above; but for the avoidance of doubt it is hereby declared that no person shall be precluded from continuing in or taking office as an elected member by reason

only of a reduction in the total of non-elected members occurring on or after 31st March in any year in which he is to continue in or take office as an elected member.

- (12) If so required in writing by any ten members of the Senate, the President/Vice-Chancellor, or in his absence the Deputy Vice-Chancellor/Senior Vice President, on the President/Vice-Chancellor's instruction, shall convene a meeting of the Senate to be held not later than the tenth day following that on which the request was received.
- (13) In this article "total of non-elected members" means as respects any year, such manner as may be certified by the President/Vice-Chancellor on the 31st March of that year to be the number of persons holding office as members of the Senate on that day otherwise than elected members.

#### **4**

### **ADMINISTRATIVE COMMITTEE (ADCOM)**

#### **(2) Membership**

The Administrative Committee shall consist of -

- a) President/Vice-Chancellor (Chair)
- b) AVP, Enrolment & Records/Registrar (Secretary)
- c) other Principal Officers of the University
- d) Chief of Staff/Special Assistant to the President/VC
- e) Director/Head, Legal Services
- f) The University Pastor
- g) Director, Quality Assurance & Control

In Attendance:

- a) Deputy Registrar (Recording Secretary)
  - b) Any other officer as may be needed and invited at any particular meeting
- (2) When upon any special occasion the ADCOM desires to obtain the advice of any person on any particular matter, the ADCOM may co-opt such person to be a member for a meeting or meetings as may be required, and such a person whilst so co-opted shall have all the rights and privileges of a member but shall not be entitled to vote on any matter.
  - (8) The President/Vice-Chancellor shall be the chairman at all meetings of the ADCOM when he is present; and in his absence, the Deputy Vice-Chancellor/Senior Vice President, Academic Administration or Management Services in that order of preference.
  - (9) ADCOM shall meet at least once a week;
  - (10) If so required in writing by any seven members of the ADCOM, the President/Vice-Chancellor, or in his absence the ranking SVP/Deputy Vice-Chancellor, on the President/Vice-Chancellor's instruction, shall convene a meeting of the ADCOM within 48 hours of which the request was received.
  - (11) The quorum of the ADCOM shall be seven including the Chair and it may regulate its own procedure in line with the administrative policies of the proprietors.

#### **5**

### **ACADEMIC CONGREGATION**

#### **(1) Academic Congregation shall consist of -**

- a) President/Vice-Chancellor (Chair)
- b) SVP/Deputy Vice-Chancellor, Academic Administration (Vice-Chair)
- c) AVP Enrolment & Records/Registrar (Secretary)
- d) other Principal Officers
- e) all full-time members of the academic staff;

- f) Director, Quality Assurance & Control
  - h) Director of Academic Planning
  - k) Other officials of the University whose attendance in Congregation is beneficial whether academicians or non include: University Pastor, Director of Corporate Affairs, and any other official so designated by the President/Vice-Chancellor.
- (2) Subject to Clause 5 of these Rules and Regulations, the President/Vice-Chancellor shall be the Chairman at all meetings of congregation when he is present; and in his absence the Deputy Vice-Chancellor. In the absence of both, a senior academic staff as may have been expressly delegated by the President/Vice-Chancellor may act as chairman at the meeting.
- (3) The quorum of the Congregation shall be one-third (or the whole number nearest to one-third) of the total number of members of the Congregation or fifty, whichever is less.
- (4) A certificate signed by the President/ Vice-Chancellor specifying -
  - a) the total number of members of Congregation for the purposes of any particular meeting or meetings of Congregation; or
  - b) the names of the persons who are members of Congregation during a particular period; shall be conclusive evidence of that number or, as the case may be, of the names of those persons.
- (5) Subject to the foregoing provisions of this article, Congregation may regulate its own procedure.
- (6) Congregation shall be entitled to express by resolution or otherwise its opinion on all matters affecting the interest and welfare of the University and shall have such other functions in addition to the function of electing two members of the Senate, as may be provided by Law or regulations.

## 6

### **UNIVERSITY CONVOCATION**

- (1) University Convocation shall consist of -
  - a) the officers of the University mentioned in Schedule 1 to Rules and Regulations;
  - b) all teachers within the meaning of these Rules and Regulations; and
  - c) every member of the administrative staff who holds a degree of any university recognized for the purposes of these Rules and Regulations by the President/Vice-Chancellor, not being an honorary degree.
  - d) all other persons whose names are registered in accordance with paragraph (2) below.
- (2) A person shall be entitled to have his name registered as a member of convocation if -
  - (a) he is either a graduate of the University or a person satisfying such requirements as may be prescribed for the purposes of this paragraph; and
  - (b) he applied for the registration of his name in the prescribed manner and pays the prescribed fees;
 and regulations shall provide for the establishment and maintenance of a register for the purpose of this paragraph and, subject to paragraph (3) below, may provide for the payment from time to time of further fees by persons whose names are on the register and for the removal from the register of the name of any person who fails to pay those fees.

- (3) The person responsible for maintaining the register shall, without the payment of any fees, ensure that the names of all persons who are for the time being members of Convocation by virtue of paragraph (1)(a) or (b) above are entered and retained on the register.
- (4) A person who reasonably claims that he is entitled to have his name on the register shall be entitled on demand to inspect the register, or a copy of the register at the principal offices of the University at all reasonable times.
- (5) The register shall, unless the contrary is proved, be sufficient evidence that any person named therein is, and that any person not named therein is not, a member of Convocation; but for the purpose of ascertaining whether a particular person was such a member on a particular date, any entries in and deletions from the register made on or after that date shall be disregarded.
- (6) The quorum of Convocation shall be fifty or one-third or the whole number nearest to one-third or the total number of member of Convocation, whichever is less.
- (7) Subject to Clause 5 of these Rules and Regulations, the President/Vice-Chancellor or his representative shall be chairman at all meetings of Convocation.
- (8) Convocation shall have such functions as may be provided by Law.

## 7

### **ORGANIZATION OF COLLEGES/FACULTIES/SCHOOLS AND BRANCHES THEREOF**

Each faculty/school shall be divided into such number of branches as may be prescribed.

- (1) There shall be established in respect of each College/Faculty/School, a Council of Studies which, subject to the provisions of this statute, and subject to the directions of the President/ Vice-Chancellor, shall -
  - a) regulate the teaching and study of, and the conduct of examinations connected with, the subjects assigned to the College/Faculty/School;
  - b) deal with any other matter assigned to it by the statute or by the President/Vice-Chancellor or by the Senate; and
  - c) advise the President/Vice-Chancellor or the Senate on any matter referred to it by the President/Vice-Chancellor or the Senate.
- (2) Each College/Faculty/School Board of Studies shall consist of -
  - a) the Provost/Dean (Chair)
  - b) the persons severally in charge of the branches of the college/faculty/school;
  - c) such of the teachers assigned to the faculty and having the prescribed qualifications as Council may determine; and
  - d) such persons whether or not members of the University as the Council may determine with general or special approval of the Senate.
- (3) The quorum of the Council shall be seven members or one-quarter (whichever is greater) of the members for the time being of the Council; and subject to the provisions of this statute and to any provision made by regulations in that behalf the Council may regulate its own procedure.
- (4) The following Faculties shall constitute the foundation faculties of the University:-
  - a) Faculty of Education and Humanities;
  - b) Management and Social Sciences
  - c) Science and Technology

- (5) There shall also be a College of Health Sciences, including a School of Medicine, which shall have its own Statutes and Regulations within the overall context of the University.

## **8**

### **PROVOST OF CAMPUS/COLLEGE OR DEAN OF FACULTY/SCHOOL**

- (1) The Provost of a campus or Dean of a Faculty/School shall be a professorial member of Senate, appointed by the President/Vice-Chancellor upon the recommendation of the Campus/College Management Committee or Board of Studies for each Faculty/School; Each Provost/Dean shall hold office for a term of two consecutive academic years renewable once, after which he/she may normally not be eligible for re-appointment until two years have elapsed.
- (2) If there is no suitable professor in on a Campus or in a faculty, the office of Provost of Campus/College or Dean of Faculty/School may be held by a senior member of the Campus/College or Faculty/School holding the ranks of Associate Professor or Senior Lecturer on appointment by the President/Vice-Chancellor with the approval of Senate.
- (3) The Provost/Dean shall be the chairman at all meetings of the College/Faculty/School Board of Studies (CBS/FBS/SBS) when present and shall be a member of all committees and other boards appointed by the College/Faculty/School.
- (4) The Provost/Dean of a College/Faculty/School shall have general superintendence over the academic and administrative affairs of the College/Faculty/School. It shall be the function of the Provost/Dean to present to Academic Congregation for the conferment of degrees on persons who have qualified for the degrees of the University at examinations held in the branches of learning for which responsibility is allocated to that College/Faculty/School.
- (5) There shall be a committee to be known as the Committee of Provosts and Deans consisting of the Provosts and Deans of the several faculties/Schools under the leadership of the Senior Vice President/Deputy Vice-Chancellor for Academic Administration; that committee shall advise the President/Vice-Chancellor on all academic matters, Senate Agenda and on particular matters referred to the Board of Trustees by Senate.

The Provost/Dean of a College/Faculty/School may be removed from office for cause by the President/Vice-Chancellor. In the event of a vacancy occurring following the removal of a Provost/Dean, an acting Provost/Dean may be appointed by the President/Vice-Chancellor provided that a nomination shall be submitted to the next Senate meeting to recommend the appointment of a new Provost/Dean to the Governing Council.

## **9**

### **ORGANIZATION OF CAMPUSES**

A Campus of the University may be organized to as outlined in (Clause 8: Functions of Senate & Administrative Committee) above, to enclose such Faculties/Schools or other academic or professional units, divided into such number of branches as may be prescribed.

- (1) There shall be established in respect of campus of the university a Campus Management Committee which shall be responsible for academic/administrative matters directly to the SENATE/ADCOM through the President/Vice-Chancellor;
- (2) Each Campus Management Committee shall meet and record its proceedings on weekly basis, consisting the following membership: -
- a) the Provost (Chair)

- b) A Dean of a constituent School/Faculty appointed by the President/Vice Chancellor (Vice Chair)
- c) An Assistant Vice President for Enrolment & Records (Secretary)
- c) Other Deans of Schools/Faculties running programmes resident on the campus
- d) Other Principal Officers' Representatives
- d) Director, Quality Assurance or Representative
- e) Director/Head, Legal Services or Representative
- g) Principal Officers of the University (Ex-Officio)
- (3) The quorum of the Campus Management Committee shall be seven members
- (4) Administrative processes and structures on the Campuses shall follow the pattern of that on the Main campus save for exceptions expressly granted by the Governing Council.

**10**

#### **APPOINTMENT OF PRESIDENT/VICE-CHANCELLOR**

- (a) When a vacancy occurs in the office of the President/Vice-Chancellor or six months before the expiration of the term of office of an incumbent President/Vice Chancellor, the Pro-Chancellor, on behalf of the Governing Council and Board of Trustees, after making such appropriate inquiries shall constitute a Seven-Member Search Committee which shall be ratified by the Governing Council;
- (b) The Seven-Member Search Committee referred to in 10 (a) above shall comprise a member of Senate who is an academic staff, a member of Congregation, a Non-Academic staff, three members of the Governing Council (a Church employee and two non-Church employees respectively), and a Chair to be appointed by the Pro Chancellor also from the Governing Council;
- (c) The Search Committee shall invite suitably qualified Professors primarily but not necessarily exclusively from within the University community, for selection interaction sessions after which a recommendation of not more than three names shall be forwarded to the Governing Council from the list of Professors who participated in the selection interaction sessions.
- (d) The Governing Council shall from within the three names in 10 (c) above forward two names to the Board of Trustees for consideration.
- (e) The Board of Trustees shall make the final decision.

**11**

#### **THE BOARD OF TRUSTEES**

- The Executive Committee of West – Central Africa Division of Seventh-day Adventist Church shall serve as Board of Trustees (2) Members of The Board appointed or elected under paragraph 1 (a) and (i) above shall hold office for the entire five-year term of The Board or whatever remains of the term from the moment of appointment or election, provided that any member so appointed or elected shall cease to be a member of the Board of Trustees if he ceases to be a member of the body which appointed or elected him.
- (3) The quorum of the Board shall be decided by the Board.
  - (4) The Chancellor shall preside at every General Meeting, or, in his absence whoever is duly designated by the proprietors to act for him.
  - (5) Where the Board desires to obtain advice with respect to any particular matter, it may co-opt not more than two persons for that purpose; and the persons co-opted may take part in the deliberations of the Board at any meeting but shall not be entitled to vote.

This erases doubt. E.eg Director Legal is member of Senate but not an academic staff

**12**

#### **SELECTION OF OTHER PRINCIPAL OFFICERS**

When a vacancy occurs in the office of either of a Senior Vice President/Deputy Vice-Chancellor, VP Financial Administration/University Bursar, VP Development & Strategy or VP Students Affairs, the President/Vice-Chancellor, after making such appropriate inquiries shall recommend the candidate to the Board of Trustees for appointment to the vacant office.

**13**

#### **SELECTION OF CERTAIN ASSOCIATE OFFICERS**

When a vacancy occurs in the office of the Chief of Staff/Special Assistant to the President/Vice-Chancellor, Associate Vice President, or Provost for Campuses or Colleges, Assistant Vice President or Major Departmental Director (Legal Unit, Quality Assurance & Control, or University Pastor, etc..) the President/Vice-Chancellor, after making such inquiries as he thinks fit shall recommend the candidate to the Governing Council for appointment to the vacant office.

**14**

#### **CREATION OF ACADEMIC POSTS**

Recommendations for the creation of posts other than those mentioned in “8” above under provisions of these Rules and Regulations for Provosts and Deans shall be made by the Senate to the Governing Council.

**15**

#### **APPOINTMENT OF ACADEMIC STAFF**

Subject to these Rules and Regulations, the filling of vacancies in academic posts (including newly created ones) shall be as prescribed from time to time by statutes.

**16**

#### **APPOINTMENT OF ADMINISTRATIVE AND TECHNICAL STAFF**

- (1) The administrative and technical staff of the University, other than those mentioned in Article 8 of this Statute, shall be appointed by Council or on its behalf by the President/Vice-Chancellor or the Deputy Vice-Chancellor(s)/Senior Vice President(s) in accordance with any delegation of powers made by Council in that behalf.
- (2) In the case of administrative or technical staff who have close and important contacts with the academic staff, there shall be Senate participation in the process of selection.



**CITATION**

These Rules and Regulations may be cited as Babcock University Bye-Law No.1.

MADE at Abuja this 21st day of April 1999.

Amendments approved by the Board of Trustees sitting at the Adventist University Cosendai, Nanga-Eboko, Cameroun, This 19<sup>th</sup> Day of January, 2007; and at Abidjan, on January 19, 2010.

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**Pastor Elie Weick-Dido**

Chancellor and Chair, Board of Trustees, &  
President, West-Central Africa Division  
of Seventh-day Adventist Church

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**Dr. Juvenal Balisasa**

Secretary Board of Trustees &  
Director of Education, West-Central Africa  
Division of Seventh-day Adventist Church

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**Pastor Bassey Udoh, D. Min.**

BU Pro-Chancellor &  
Chair, Governing Council

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**Professor Ademola S. TAYO**

BU President/Vice-Chancellor &  
Secretary, Governing Council