Faculty of Science

The Faculty of Science is committed to providing students with quality instruction, experience with up-to-date instrumentation and technology and opportunities to develop communication and research skills.

The Faculty involves students in significant hands-on activities and research programmes in order to prepare them for successful careers and advanced educational opportunities in the Biological Sciences, Earth Sciences, Mathematical Sciences and Physical Sciences.

Departments
- Department of Biochemistry
- Department of Botany
- Department of Chemistry
- Department of Computer Science
- Department of Earth Science
- Department of Mathematics
- Department of Nutrition and Food science
- Department of Oceanography and Fisheries
- Department of Physics
- Department of Statistics
- Department of Animal Biology and Conservation Science

School
- School of Nuclear and Allied Sciences

Centres of Research & Learning
- Environmental Science Programme
- Volta Basin Project

FAST FACTS
- Number of Departments: 11
- Teaching Staff: 137
- Undergraduate Students: 2,941
- MSc/MPhil Students: 439
- PhD Students: 78

Degrees Offered
- B.Sc. BCMB
- B.Sc. Botany
- B.Sc. Chemistry
- B.Sc. Computer Science
- B.Sc. Earth Science
- B.Sc. Mathematics
- B.Sc. Nutrition and Food science
- B.Sc. Oceanography
- B.Sc. Physics
- B.Sc. Animal Biology and Conservation Science
- B.Sc. Statistics
- B.Sc. Fisheries Science
B.Sc Physics

Overview

Physics is fascinating, yet a difficult but richly rewarding subject of study. It is the science that describes how nature works using mathematics. It is not a subject for lazy minds; it is one for the intelligent, inquisitive minds ready to put their brains to work and to find answers to society's problems. Physics is considered the most fundamental of all the natural sciences and explores the smallest building blocks of matter, light, the Universe and everything in it.

This programme will sharpen the analytic minds of students whilst equipping them with great quantitative and problem solving skills. Topics like Nuclear Physics, Oscillations, electromagnetism, calculus, etc. only serve to equip prospective students with the requisite knowledge needed in a technology driven society. In an era of globalisation where a country's development is measured by the level of its technological advancement, the study of physics is undoubtedly relevant. Many of the world's technologies that have transformed society can be directly traced to important physics research. Needless to say, no one studies physics and becomes jobless.

Aims and Objectives

At the end of this programme students must:
- Acquire problem solving skills needed in any society
- Have an incredible analytic mind to bring deeper perspective on issues

Entry Requirements

See General Admission Requirements and Procedures pages.

B.Sc Computer Science

Overview

Computer specialists are part of the highest paid employees the world over with perhaps the highest job satisfaction and there is very little reason why. The world is said to be a global village largely because of this little machine called computer. With just a click of a button, anybody, anywhere can have access to anything around the world.

B.Sc Computer Science explores the exciting world of computers equipping students with the knowledge of how to manipulate the computer and use it to solve key problems of society. The programme is undoubtedly insightful, and digs deep into the creative hub of its adherents. It is intellectually stimulating and thrives on solving puzzles.

Aims and Objectives

At the end of this programme students must:
- Develop the zeal to want to solve problems.
- Understand and be able to manipulate any computer system and any similar technology.
- Be creative and innovative to establish new computer related businesses.
- Possess an intelligent skill of analyzing issues and providing deeper insights to those issues.

Industry/Global Trends

The lucrative careers computing promises make this subject a must read programme. Knowledge in computer software and hardware and its related topics opens up the imaginations of prospective students in
every exciting way possible. In an era of globalisation, the role of computer systems and its scientists cannot be overemphasised.

If the job market of today demands that prospective job applicants have at least a minimum knowledge in computer, then the job prospects for graduates in Computer Science can only be described as bright.

**Assessment**

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

**Career Prospects**

Career opportunities in computing are without boundaries. Computers are needed everywhere—hospitals, political party campaign offices, transport stations, schools, media organisations etc.; and its scientists must be available at all times to resolve any problem that will arise in the use of those computers.

**Entry Requirements**

See General Admission Requirements and Procedures pages.

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**B.Sc Oceanography**

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<td>Awarding Faculty</td>
<td>Faculty of Science</td>
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**Overview**

The sea and the oceans have been crucial both for marine and human life, yet only a few of us have the expertise on the sea structure, composition and the direct effect of aqua culture on the sustenance of human life.

This programme uses scientific research to solve the problems of the oceans of this world. It explores the structure of the sea floor, its chemical composition and studies the waves, tides, currents and how they affect climate change. It also investigates the debilitating effects of pollution of water bodies not only on the marine environment but on humans as well.

**Aims and Objectives**

At the end of this programme students must;
- Understand the structure of the sea floor and the marine environment.
- Understand the activities of the ocean and how it affects climate change.
- Be able to appraise the full effects of water pollution.

**Industry/Global Trends**

Oceanographers work in industries that use science to solve problems of the ocean. Some study the structure of the sea floor; others study the composition and properties of the seawater; And yet others too specialise in marine plants and animals and how they relate to one another, adapt to and interact with the environment. It is no doubt a difficult and challenging programme of study but obviously a rewarding one.

**Assessment**

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

**Career Prospects**

It is a rewarding career yet a difficult path to travel. What makes it difficult perhaps is the need to have a good background in at least one area of basic science or engineering as well as mathematics. It is often described as being an interdisciplinary science, or one covering all the disciplines of the ocean. Oceanography is considered a new science but its career rewards are immense.

**Entry Requirements**

See General Admission Requirements and Procedures pages.

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**B.Sc Mathematics**

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**Overview**

The world makes little sense without Maths. Mathematics presents a quantitative and the most objective perspective on issues. It is liked and hated with equal measure but it is interesting and enjoyable because of the challenge it poses; the clarity it brings.
to bear on issues. Mathematics is needed in every facet of human endeavour. Traders at the supermarket rely on arithmetic; so do transport owners and engineers. Accountants at various corporate and public institutions rely heavily on mathematics to ensure the success of their duties. The computer which has accelerated the pace of globalisation has been made possible only through mathematics. The physical sciences- physics, chemistry and astronomy depends heavily on mathematics.

Aims and Objectives

At the end of this programme, students must be able to;
- facilitate the conduct of research.
- Demonstrate sharp, analytical, objective appreciation of issues.
- make correct deductions from situations
- formulate problem-solving mechanisms using computations.

Industry/Global Trends

Mathematics is known and used throughout the world in both domestic and on the international arena. Countries, in calculating their Gross Domestic Products rely on mathematics for an accurate perspective. Economists depend on mathematics for their fiscal policies. But for the reliability of mathematical figures, the aviation industry would have been in total chaos. Needless to say, mathematicians are needed everywhere across the globe and the career opportunities cover a wide spectrum of professions.

Assessment

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

Career Prospects

Career opportunities for students who pursue a mathematics programme are limitless. Mathematics Major graduates are among the highest paid employees in any institution. In banking, insurance, governance, educational institutions, the requisite expertise of mathematicians are needed in each of these industries to make them work.

Aims and Objectives

At the end of this programme, students must be able to;
- Demonstrate practical knowledge of nutrition and its correlation to human health.
- Offer expert advice on what quantities of food nutrients should be consumed by a person
- Demonstrate a deeper knowledge and understanding on food preparation.
- Must show in depth knowledge on meal/menu planning

Industry/Global Trends

Nutritionists are needed worldwide largely because of the indispensable role they play in human development. People all over the world have become even more selective in the food they eat because of the upsurge in food related diseases. Dieticians are therefore needed with special skills and expertise in human nutrition, meal planning, economics and food preparation. Others also focus more specifically on the role of nutrition in chronic diseases.

Assessment

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.
Career Prospects

This programme provides a magnificent array of career opportunities in the tourism industry, sporting fraternity, education and any other institution where humans converge and with a need to eat or drink.

Entry Requirements

See General Admission Requirements and Procedures pages.

B.Sc Chemistry

Duration  4 years
Campus  Legon Campus
Awarding Faculty  Faculty of Science

Overview

Chemists are among the most highly sought after professionals and most employed scientists. Their field of study is unique, fascinating and considered the centre of all science-related activities. It combines physics, biology, mathematics, medicine, earth and environmental sciences. It is also fundamental in meeting man's basic needs - food, clothing, shelter, health, energy, clean air, water, and soil. Knowledge in chemistry is worthwhile because it provides an excellent insight into understanding the physical universe we live in.

The programme has intriguing but exciting topics on atoms, molecules right up to organic chemistry; preparing students for even more exciting professional careers in pharmacy, dentistry and other science-related programmes. The list of career possibilities for people with chemistry background is long and varied.

Aims and Objectives

At the end of this programme, students will:
- Have demonstrable knowledge in all sciences.
- Possess problem solving skills on issues pertaining to health.
- Have useful insights into chemical combination of anything within the universe.

Industry/Global Trends

Chemistry is fundamental to our world and plays a useful role in everyone's life. The subject touches almost every aspect of our existence in some way. Needless to say, Chemists are needed everywhere in the world and in key industrial and scientific institutions chiefly because of the depth of knowledge they have in the sciences.

Assessment

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

Career Prospects

The career opportunities are countless and very rewarding. In the health profession, chemists abound and they offer critical contributions in scientific research institutions.

Entry Requirements

See General Admission Requirements and Procedures pages.

B.Sc Botany

Duration  4 years
Campus  Legon Campus
Awarding Faculty  Faculty of Science

Overview

If there is any part of the world where plant resources are not only disregarded but systematically destroyed, it is the African continent. This programme seeks to equip students with the requisite skills and enthusiasm to discover and maintain knowledge about simple but essential plant biology. It is designed to teach students to provide the necessary leadership in protecting endangered plant species in Africa’s forests and to maintain the knowledge in plant biological sciences.

Aims and Objectives

At the end of this programme students will be able to:
- Demonstrate an understanding of some basic plant biology.
- Identify some critical plant species.
- Suggest measures to protect endangered plant species.
- Proffer solutions to the current unsustainable ways of using plant resources.

Industry/Global Trends

With the pace at which Ghana, Africa and the world are depleting plant resources to meet fast industrialisation and technological developments, the earth and humans who depend on plant resources for fresh air to breathe, water to drink, food to eat, lawns for our boulevards, medicines, etc., face an imminent
starvation. This clearly indicates that Botany graduates will continue to be sought after as societies, corporate organisations and countries all over the world seek for sustainable energy sources.

Assessment

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

Career Prospects

Botanists or knowledge in Botany is greatly needed to ensure that populations of the world use plant resources in a sustainable way. Ghana and Africa for that matter is becoming a global player in pharmaceuticals and plant biology is very crucial in this area. A knowledge in Botany thus holds great job prospects.

Entry Requirements

See General Admission Requirements and Procedures pages.

B.Sc Biochemistry, Cell & Molecular Biology

Duration  4 years
Campus  Legon Campus
Awarding Faculty  Faculty of Science

Overview

BCMB is the study of the molecular nature of living organisms leading to an understanding of the biochemical control of life processes.

This programme is regarded as the interface between biology, chemistry and physics. The development of techniques, like genetic engineering and microscale analysis, has brought an increasingly molecular focus to the traditional scientific disciplines of chemistry, biology and the health sciences. Biochemistry, cell and molecular biology are at this interdisciplinary crossroads.

Molecules such as enzymes, structural molecules, signaling molecules, RNA and DNA amongst others are investigated as part of the BCMB curricular. These studies addresses the fundamental questions of how we and other organisms on earth, live, grow, reproduce, age and die.

This programme is intended to meet the needs of students seeking careers in molecular life science industries (biotechnology, drug, food, agriculture and clinical industries), students preparing for health professional schools (medical, veterinary, dental and optometry), and students interested in graduate programmes in molecular life sciences (biochemistry, cell and molecular biology, genetic engineering and medicinal chemistry).

Aims and Objectives

At the end of this programme, students must be able to:
• Design experiment and use the requisite research skills to explain molecular and cell biology of living organisms
• Demonstrate sharp, analytical, understanding of molecular cells
• Demonstrate an understanding of how cancers come about
• Explain the importance of biochemistry to the development of biotechnologies.

Industry/Global Trends

An understanding of life processes helps us to learn how to heal the sick, aid the environment, grow better food and make more informed social decisions about such things as biotechnology, cloning and stem cell research.

People who excel in the field of biochemistry and cellular and molecular biology tend to be people who have a great curiosity about life and enjoy problem solving.

Assessment

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

Career Prospects

Graduates in biochemistry and cellular and molecular biology may go into the workforce directly or go on to receive a master's or Ph.D. degree. Career opportunities exist in a variety of fields such as: laboratory research in genetics, bioinformatics, medical fields, molecular biology, cell biology, biochemistry or biotechnology, teaching, health professions, biological writing or illustration, or the sale of biological or pharmaceutical products. These careers tend to be technology-laden and rewarding.

Entry Requirements

See General Admission Requirements and Procedures pages.
B.Sc Earth Science

Overview

Designed to train students to use tools in other branches of science such as chemistry, biology, physics, mathematics etc. to gain an understanding of the evolution of the planet earth and how the earth system works, the Earth Science programme will open students’ eyes to a wide range of insightful knowledge about the only life-bearing planet – earth.

The planet earth is a complex system and the programme is designed to give students relevant insights into its various components – geophysics, geology, physical geography, soil science, oceanography, glaciology, atmospheric science amongst others.

Aims and Objectives

At the end of this programme, students must be able to;
• Explain why natural phenomena such as volcanoes and earthquakes occur.
• Demonstrate an understanding of the various components of earth science.
• Explain the dynamics of the planet Earth.
• Demonstrate an ability to appreciate multi-disciplinary science that combine the various sciences such as physics, mathematics and chemistry etc.

Industry/Global Trends

With climate change being the world’s biggest concern now, and unprecedented floods ravaging many parts of the world, an understanding of how the earth works is absolutely critical. Scientists who can help prove that there is a clear link between human activity and climate change are in desperate demand.

The programme also explores bad fishing practices and challenges facing the industry and how to resolve them.

Assessment

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

Career Prospects

Career opportunities in engineering, geological surveys, hydrocarbon and mineral exploration, abound. Skills in exploration and hydrocarbons are essentials in Ghana and Africa’s budding oil sectors.

Entry Requirements

See General Admission Requirements and Procedures pages.

B.Sc Fisheries Science

Overview

The Fishing industry plays an instrumental role in the development of any country. Fish is an essential component of the meal of the average African and many people in many parts of the world. The nutritional value of fish cannot be overemphasised. The use of fish products for oil and for industrial purposes makes it crucial. The programme explores the harvesting, processing, marketing and conservation of fish; equipping students with the requisite knowhow in the industry.

The fishing industry has career prospects in manufacturing, marketing, distribution as well as the service industry.

Aims and Objectives

At the end of this programme, students will be able to;
• Identify fish species and their aquatic environment.
• Understand the fishing industry and its impact on the economy.
• Appreciate the challenges facing the industry and how to resolve it.

Industry/Global Trends

According to research, there is a huge gap between the world’s demand for fish and what we can harvest from the world’s natural stocks. The human population on the other hand keeps increasing and so does the demand for fish. It is therefore imperative to explore better ways of bridging the gap between demand and supply of fish stock and products.

Assessment

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

Career Prospects

The fishing industry has career prospects in manufacturing, marketing, distribution as well as the service industry.

Entry Requirements

See General Admission Requirements and Procedures pages.
I completed Senior High School with the aim of pursuing medicine at the University of Ghana. But during the prerequisite Level 100 Biological Science programme, I discovered an interesting programme. Biochemistry, sometimes called biological chemistry is the study of chemical processes and living organisms, including, but not limited to, living matter.

The extraordinary thing about this programme is that, it is applied in all the sciences; talk about medicine, botany, laboratory technology, biomedical engineering and several others.

This programme has completely altered my medical school ambition and now I can easily perceive myself building a fulfilling career as a biochemist or perhaps a Crime Scene Investigator as a Forensic Scientist.

The University of Ghana provides a total education because here you would not just discover new and interesting programmes but also, interesting people from all walks of life, race, culture and class.
B.Sc Animal Biology & Conservation Science

Overview

This programme is designed for anyone who is fascinated by animals, in particular their evolutionary origins and development, ecology, behaviour and conservation. Knowledge of physical and biological characteristics of animals helps in designing tools for their management and conservation. This programme offers such basic courses as Ecology, Genetics, Entomology, Evolution, Behaviour, Physiology, Vertebrate Biology, Parasitology, Biometry and Aquatic Biology, in addition to a more applied career-oriented courses like Public Health, Fishery Biology, Conservation Biology, Wildlife Management, Applied Entomology and Advanced Genetics. The latter focuses largely on modern concepts of molecular biology and genetic engineering.

Aims and Objectives

The student of Animal Biology and Conservation Science will be so adequately equipped with knowledge, directed towards the complex interrelationships among humans, other animals, plants and the physical environment and how to reduce their negative anthropogenic impact.

Industry/Global Trends

Environmental change requires an expert understanding of animal biology and conservation, whether in charting the recovery of endangered populations, or in avoiding outbreaks of diseases such as avian flu. The importance of captive breeding and reintroduction means that experts in animal biology also have an important part to play in the management of zoo animals as part of conservation programmes. This course covers a field of study that is both scientifically rigorous and extremely relevant to today’s world.

Assessment

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

Career Prospects

The skills and knowledge gained on this course are directly relevant to a number of careers in the area of wildlife management and conservation. Many of our graduates will find employment with conservation bodies or in the private sector working as consultants in animal ecology. Others will find jobs in the agriculture, pharmaceutical and biotechnology industries, and in conservation management and environmental agencies. There are other career paths in the civil service, forensic sciences, teaching, the food industry, commercial analytical laboratories, professions allied to medicine, and in government and industrial research laboratories. An Animal Biology and Conservation degree also offers an excellent general university education and can provide a gateway to careers in management, journalism and the media, finance and other areas of commerce, law, computing and the leisure industry.

Entry Requirements

See General Admission Requirements and Procedures pages.
B.Sc Statistics

Overview

Statistics is a mathematical science which deals with the collection, analysis, interpretation or explanation and presentation of data. It also provides the means for prediction and forecasting based on data. Statistics as a tool is applicable to a wide variety of academic disciplines, from the natural and social sciences to the humanities, government and business.

Its methods can be used to summarise or describe a collection of data; this is called descriptive statistics. In addition, patterns in the data may be modeled in a way that accounts for randomness and uncertainty in the observations, and are then used to draw inferences about the process or population being studied; this is called inferential statistics.

Aims and Objectives

Probability is the foundation of Statistics and every course in the programme has an element of probability in it. Some minimum level of University Mathematics (Level 100 at least) is required for a good understanding of the Probability courses. This is crucial to the Philosophy and Objectives of the B.Sc Statistics Programme at UG. We focus our Learning and Training Activities on the logic and principles that should guide rational decision making in conditions of uncertainty. We are certain that this philosophy equips our students with skills that all employers consider desirable.

Industry/Global Trends

Statistics is an old discipline, as old as the human activity. Its utility has been increasing as the ages goes by. In the olden days it was used in the administrative departments of the states and the scope was limited. Earlier it was used by governments to keep record of birth, death, population etc., for administrative purpose. These days however, fields like agriculture, economics, sociology, business management etc., are now using Statistical Methods for different purposes. Various disciplines have also evolved out of the subject such as mathematical statistics, which is concerned with its theoretical basis. There is also a branch of statistics called exact statistics that is based on exact probability statements.

Assessment

Students will be assessed on the basis of completed assignments, examinations, workplace learning and projects or other methods as outlined in specific subject outlines.

Career Prospects

There are excellent opportunities for statistics graduates. Typical tasks of a Statistician may include:

- Developing econometrics, time series, and forecasting models for determining the cause and effects of various socio-economic variables on any society.
- Consulting in the design and analysis of clinical studies, evaluating new pharmaceutical agents;
- Developing theories of learning and behaviour in conjunction with psychologists;
- Designing experiments for agricultural, ecological, environmental, or energy-related studies;
- Determining mortality, morbidity, and accident rates for an insurance company;
- Serving as an opinion pollster for a public relations firm or a television network;

Many undergraduates also proceed directly to graduate work in statistics. This tends to increase their career opportunities.

Entry Requirements

See General Admission Requirements and Procedures pages.
Faculty of Social Sciences

In fulfilment of the University of Ghana’s mission of developing world-class human resources and capabilities, the Faculty of Social Sciences seeks to make teaching, research and extension activities in the social sciences more relevant to the development needs of the Ghanaian society in particular and the world in general through the offering of attractive, innovative and demand-driven programmes.

Aside providing a holistic academic curriculum for students to gain deeper insight into human behaviour, society, history and culture from an interdisciplinary perspective, the Faculty also addresses a broad range of issues through research, workshops, multimedia, exhibitions, lecture series and other events.

**Departments**

Department of Archaeology and Heritage Studies
Department of Economics
Department of Geography and Resource Dev.
Department of History
Department of Information Studies
Department of Political Science
Department of Psychology
Department of Social Work
Department of Sociology

**Institutes**

Institute of Continuing and Distance Education
Institute of African Studies
Institute of Social Statistical and Economic Research

**Regional Institute for Population Studies**

**School**

School of Communication Studies

**Centres**

Legon Centre for International Affairs & Diplomacy
Centre for Gender Studies and Advocacy
Centre for Migration Studies
Centre for Social Policy Studies
Balme Library

**FAST FACTS**

- Departments: 9
- Institutes: 4
- Schools: 1
- Centres: 5
- Teaching Staff: 204
- Non-Teaching Staff: 352
- Undergraduate Students: 18610
- MSc/MPhil Students: 682
- PhD Students: 96
- Degrees Conferred in 2010: (Humanities) 2976

Prof Samuel Agyei-Mensah
BA (Ghana), MPhil, PhD (Trondheim)
Dean, faculty of Social Sciences
B.A. Psychology*

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Overview

If it involves humans, it must be psychology. This programme will take you through an exciting journey into the thought processes of the human mind and how those processes affect human behavior.

The programme content is uniquely composed to equip you with the manifest understanding of why two people will act differently when faced with the same challenge. With this understanding you would be better placed to relate well with anyone - quick or slow tempered, timid or buoyant - in any given situation.

Assessment

Students are assessed through a combination of assignments, examinations and projects.

Tuition Methods

Class discussion, Note dictation

Career Prospects

It is a must-take programme with limitless career opportunities in sports, medicine, entertainment, industry, media etc.

Entry Requirements

See General Admission Requirements and Procedures pages.

Industry/Global Trends

Psychology is needed in every facet of human relation. In school, teachers use Psychology to bring the best out of their students. At home parents use Psychology to straighten wayward children. Sports men need psychology to win medals, trophies. Employers turn to psychology for motivation; for profits. Presidents, politicians need psychology to govern well. The career opportunities are limitless. Knowledge and mastery in Psychology is exciting and rewarding.

Aims and Objectives

At the end of this programme students must;
- Show greater understanding of themselves.
- Be armed with critical evaluation skills which will effect change in the most conservative circumstances.
- Equiped with an invaluable problem solving skill which will be useful in social and or professional enterprise.

B.A. Sociology

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Overview

A programme in Sociology is a cause to understanding the society and the human being's place in it. This programme explores the diversity of society in a more scientific way bringing out the unique cultural practices of humans.

This programme will stimulate your mind and teach you why vices- suicide, robberies etc. are endemic and sometimes necessary in the society, equipping you with an objective and analytic mind to understand and better appreciate human behaviour.

Aims and Objectives

At the end of this programme students must;
- Demonstrate an empirical understanding of the society in which we live.
- Have indepth knowledge of the culture, systems and traditions of the Ghanaian society and others
- Have an objective and a great sense of analysis of societal issues.

Industry/Global Trends

In an increasing times of economic squeeze and fast changing world thanks to extraordinary developments in technology, thought processes of humans have to be better explained and understood. The study of Sociology has consequently become even more essential.

* Also available on offer as a Bachelor of Science under the Faculty of Science.
B.A. Economics

Assessment
Students are assessed through a combination of assignments, examinations and projects.

Tuition Methods
Class discussion, Note dictation

CareerProspects
Systems and institutions are key in any human environment and Sociology holds that key. The career opportunities are amazing.

Entry Requirements
See General Admission Requirements and Procedures pages.

Overview
A programme in Economics is an enthralling adventure into the world of business, with money and choices being the protagonists. It encapsulates the daily challenges and choices people make at home or at work. Economics is part of our daily lives because our needs and wants always exceed our limited resources. The programme will enlighten you on topics like inflation, opportunity cost, budget, entrepreneurship and will prepare you for an exciting world of business.

Aims and Objectives
At the end of this programme students must;
• Understand the choices we make and the consequences thereof.
• Be able to analyse and evaluate questions of public policy.
• To imbibe entrepreneurial skills
• Understand how the world of business works.

Industry/Global Trends
Economics is business and it's global. It affects every facet of human life. It is needed in homes, hospitals, market places and the seats of government. Career opportunities are innumerable.

Assessment
Students are assessed through a combination of assignments, examinations and projects.

B.A Political Science

Overview
This programme walks you into the corridors of power and prepares you to take up key positions of trust in a family, group, association or state.

Political Science will expose you to conflicts in societies which come about as a result of competing interests. It will arm you with key conflict resolution mechanisms as well as how to aggregate and articulate different positions or interests.

Aims and Objectives
At the end of this programme students must;
• Understand and appreciate how key political and public institutions of state operate.
• Be equipped with the requisite skills needed to run an organisation or country.
• Be armed with problem solving skills needed in any given situation.

Industry/Global Trends
Political Science is an indispensable programme needed worldwide. It forms the basis of other programmes as diplomacy, international politics and relations. Its career opportunities are far reaching. From an Assembly man position in a village, to the position of the UN Secretary General, the route to attaining these can reliably be traced to a Political Science degree.
At level 100, my three primary goals were studying, studying and no fun. But just when I was getting bored stiff with that lifestyle, Winnifred Boamah, a third year student who was also a roommate and the University's badminton team captain, persuaded me to join the team. I agreed because I was inspired by how she combined both work and play and managed to excel at both.

I was quick to learn from the experienced players and in just 3 weeks there I was standing at the centre court representing Mensah Sarbah Hall in the inter halls games. Winning my singles and doubles were such an overwhelming experience and one achievement I would always cherish.

Now I believe coming to University of Ghana has made me a better person. Thankfully, I am now able to manage my time very well, take part in other social activities and still make my grades - what else could a girl ask for? Through learning how to socialise, I am able to interact better with my teaching assistants and Lecturers. Academic work has never been this enjoyable.

Time check; its badminton time for me at Legon. I’ve got to go guys my coach must be waiting. But just in case you need a Lawyer someday, don’t forget to call on me. I believe the programmes I am reading at UG presently puts me in great stead for admission to the Law Faculty and subsequently to the Law School after which a fulfilling career as a legal professional is within my reach.
Assessment
Students are assessed through a combination of assignments, examinations and projects.

Tuition Methods
Class discussion, Note dictation

Career Prospects
Political Science is key in an era of globalisation where political power always holds sway over any other thing in the world. It is powerful; it is rewarding.

Entry Requirements
See General Admission Requirements and Procedures pages.

B.A. Archaeology

Overview
Archaeology is the study of the ancient and recent human past through material remains. From a million-year-old fossilised remains of our earliest human ancestors in Africa, to 20th century buildings in present-day China, archaeology analyses the physical remains of the past in pursuit of a broad and comprehensive understanding of human culture.

It explains the culture of our forbears by digging carefully selected sites and scientifically studying buried remains. Except where historical documents are accurate, archeology offers a more reliable information on human past.

With topics like human origins, early civilisation in Africa etc. this programme will provide prospective students with a better perspective and appreciation of the human past. Compared with history, which relies primarily upon written data to interpret great lives and events, archaeology permits us to investigate into the time before written languages existed and to glimpse the lives of everyday people through analysis of things they made and left behind.

Aims and Objectives
At the end of this programme students must;
• Show a superior and scientific understanding of the human past.
• Have an analytic mind capable of appraising the cultural past.

Industry/Global Trends
Archaeology is the only field of study that covers all time periods and all geographic regions inhabited by humans.

Archaeologists are needed worldwide because of their superior competencies and knowledge in appraising the human and cultural past.

Assessment
Students are assessed through a combination of assignments, examinations and projects.

Tuition Methods
Class discussion, Note dictation

Career Prospects
Archaeology is exciting and rewarding but only to the determined and scientific mind. It offers interesting careers in Research, Academia, Graduate Studies and many other fields of endeavour.

Entry Requirements
See General Admission Requirements and Procedures pages.

B.A. Geography And Resource Development

Overview
This programme is eclectic and stimulating. It provides students with the requisite knowledge on the political geography of the world; it touches on the climate and discusses the looming threats of global warming. It explores the business of mining, agriculture, and fishing explaining the differences in time and rainfall patterns across different regions of the world. With Geography students are better placed to understand the planet and earth’s place in it.

This programme will introduce students to cultures of the world but will first dissect Ghana into its climate, soil, rainfall, rocks, politics, culture and every little detail that makes Ghana different or similar to any country of the world. The programme will treat the culture, the religion, the occupation of a group and explain why residents in Prestea for instance will prefer mining to farming. It will also explore distances, city planning and
training prospective students on how to read location maps.

**Aims and Objectives**

At the end of this programme, students will be able to;
- Demonstrate an understanding of the geo-political make-up of the world and how it sometimes influences conflicts in certain parts of the world.
- Attain an eclectic mental attitude capable of understanding the business of mining, farming and why a group of people may decide to opt for one occupation.
- Exercise a clear understanding of why natural disasters like earthquakes, typhoons occur and why some areas are prone to those disasters.
- Understand the socio-cultural and occupational traits of a particular people.

**Industry/Global Trends**

Geography provides a clear understanding of human and natural phenomena in every part of the world. The knowledge acquired in the subject becomes all the more useful in emergency situations because of their daily interactions between humans and the environment, hazards and earth processes. Due to their understanding of population, students of geography become demographers with insights into population mix - age, sex, birth and death rate etc. A solid foundation in geography helps in no small way understanding real estate development and with special skill and understanding of appraisal tools including aerial photos, topographic maps.

**Tuition Methods**

Class discussion, Note dictation

**Career Prospects**

Geography in many ways is exciting and its study rewarding. Its career opportunities are limitless and mouthwatering. With its multi-faceted discipline, Geography offers ready jobs in so many areas of expertise i.e. Teaching, urban planning, waste management, etc.

**Entry Requirements**

See General Admission Requirements and Procedures pages.

**B.A. Adult Education**

**Overview**

This programme is a flexible, exciting mid-career professional training degree tailored to upgrade the knowledge and expertise of prospective students who are teaching adults. The degree in no small way moulds the students, inculcating in them a spirit of humility, tolerance in relating to their adult learners.

The degree provides both theoretical and practical experiences similar to the challenges prospective students encounter daily in their work settings.

**Assessment**

Students are assessed through a combination of assignments, examinations and projects.

**Tuition Methods**

Class discussion, Note dictation

**Career Prospects**

A programme in Adult Education will undoubtedly turn you into a better, more refined person in your chosen career.

**Entry Requirements**

See General Admission Requirements and Procedures pages.
The University of Ghana is one institution that believes in the philosophy that students are partners in development and not just passer bys and therefore include students in major decision making through their representatives for the good of all. This motivates students who want to pursue politics after school and even those who want to have experience in leadership to enter into campus politics for various positions on the numerous student fronts and on the university boards and committees. It is this atmosphere which motivated me to run for the office of the Vice President of the Students’ Representative Council (SRC) of the University of Ghana.

The B.A Political Science degree at UG has been carefully designed to provide every student with a general perspective of what the science of politics is, through courses in public administration, international politics, local politics, gender issues, the international political economy and also through objective tests and research courses like advanced political research which trans students to be as objective as possible and test between two or more situational variables as well as make predictions into the future.

The University of Ghana is truly a world class institution and I have never regretted being a part of it.
B.A. Information Studies

Overview

This programme, known in certain educational quarters as Information Science, has become crucial in what has now become an information world and a knowledge society. The prospect of development is no longer measured by a country’s agricultural or technological worth but by the amount of relevant information available to that country.

The programme explores how Information Communication Technology (ICT) has become the driving force in development. It gives prospective students a competitive advantage in the knowledge based society. The knowledge acquired in information studies is applicable in several other fields.

Aims and Objectives

At the end of this programme, students must;
- Have useful insights into the use of Information Communication Technologies.
- Develop keen interest in reading with the prospects of opening up one’s scope of knowledge.
- Be informed and possess problem solving skills
- Develop a critical and analytic thinking skills

Industry/Global Trends

This degree provides exciting new opportunities in an era of information and knowledge based society. In this new society, countries no longer strive for excellence in technological and agricultural advancement but rather over new ideas, innovations available only through the power of information. Whilst developed countries may have information infrastructure, prospects for the developing countries to leapfrog and become a developed country by tapping into new ideas are amazingly high. Prospective students may benefit from this programme by becoming data analyst, managers of information, handlers of public/private libraries etc. Prospective students will after this degree be able to design, organise, produce, and retrieve information in systems for people.

Assessment

Students are assessed through a combination of assignments, examinations and projects.

Tuition Methods

Class discussion, Note dictation

Career Prospects

Topics like information management, information technology and information society only serve to mould prospective students into versatile professionals whose expertise will be needed greatly in the Information Industry. Needless to say, the career possibilities available after this programme can only be exciting.

Entry Requirements

See General Admission Requirements and Procedures pages.

B.A. Social Work

Overview

In a world afflicted by election violence, ethnic conflicts, poverty, diseases etc. a great mass of people are left destitute. It is the duty of every country to extend a lifeline to the underprivileged.

This programme is a professional academic discipline geared towards training people to extend love, affection, sympathy to the afflicted and improve the quality of lives of all people irrespective of which social stratum one belongs.

Aims and Objectives

At the end of this programme, students must;
- Know and understand the causes of conflicts and its deleterious effects on people
- Understand the emotions, needs of afflicted people in the world
- Understand social policies and its effects on the destitute
- Imbibe a spirit of humility, sympathy, love and affection

Industry/Global Trends

In a world where individuals, communities, and governments seek their interest, above all others, conflicts are bound to occur; destitutes are bound to emerge. Social workers are the professionals needed to assuage the pain of the destitute and get them back
on their feet. Social work is not the preferred profession for fame and riches but the inner satisfaction and joy one receives with helping others is always gratifying.

**Assessment**

Students are assessed through a combination of assignments, examinations and projects.

**Tuition Methods**

Class discussion, Note dictation

**Career Prospects**

A social worker can affect positively the life of the underprivileged through teaching, community organising, research etc. and can be done at the local, national, continental and international level. International Organisations such the UNHCR always requires the services of social workers to cater for refugees and other poverty endemic areas of the world.

**Entry Requirements**

See General Admission Requirements and Procedures pages.

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### B.A. History

**Overview**

History reminds us of our past. It explores into great detail the political, social and economic lives of our forebears. But it makes no meaning if the facts of our past are far removed from the present. In essence, History has no relevance if it does not make the past real and live. It must draw a line of similarity or dissimilarity between the past and present events.

This programme is dedicated to delving comprehensively into the past, chronicling how man evolved from ‘man ape’ to what is now known as a human being. It treats how man has survived from the days of hunting and gathering to present day democracy. It will trace Ghana and the African political systems, cultures and provide reasonable explanation to the differences in cultures of the human race.

**Aims and Objectives**

At the end of this programme students must;

- Sharpen the understanding and imagination of people
- Inculcate patriotic values in the individual
- Impart a critical and inquisitorial mindset on the individual
- Inculcate the habit of reading, to widen the scope of knowledge of the individual

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### Industry/Global Trends

History is important in many ways, without which the world would have no meaning. It provides accurate representation of our past and serves as a guide to contemporaries. Historians make use of their expertise in many other professions. In the arts and movie industry, historians have been crucial. Historians are needed to impart knowledge to students at all levels. This degree therefore provides a wonderful teaching career.

**Assessment**

Students are assessed through a combination of assignments, examinations and projects.

**Tuition Methods**

Class discussion, Note dictation

**Career Prospects**

History offers an exciting opportunity for intellectualism and provides deeper insights and perspectives on issues. It has rewarding careers in journalism, writing, Librarianship, archiving, editing and many more.

**Entry Requirements**

See General Admission Requirements and Procedures pages.
As with all adventures, there was utmost curiosity in the beginning. I had some issues with the university’s new academic policies—the new grading system, the new structure and the University Required Courses (UGRCs) as well as the recordable interim assessments. But thankfully, Faculty members at UG are committed to the academic progress of students in all spheres. This is manifested through Lecturers’ punctuality and commitment and the availability of learning materials at various department and hall libraries. The ICT centre at the Information Studies department, the Information Studies department library, and the Psychology department library are enough evidence of UG’s commitment to academic progress.

My initial apprehensions have now been replaced with a resolve to succeed in all spheres of my academic life at UG. For instance, the lackadaisical attitude with which I approached courses such as Psychology and Information Studies, has now given way to a total enthusiasm. With Psychology and Information studies, I have come to admit that enlightenment is key to any enquiry.

With the combination of Psychology and Information Studies, I hope to be suitable for any social working environment, where my knowledge would be applied in developing good communication and information management skills among workers and influencing workplace behaviour to increase productivity. In the long run, I hope to take up a career as a Clinical Psychologist.
School of Graduate Studies

The School of Graduate Studies is responsible for the admission, registration, study programmes and thesis examination of all graduate students of the University. The School also serves as the repository of all records on graduate students. Other important functions performed by the School of Graduate Studies include:

- Promoting the development, diversification and effective delivery of post-graduate programmes to address emerging national and global issues;
- Accreditation of all faculty teaching and supervising graduate programmes to maintain high standards and ensure high quality graduate programme output;
- Monitoring and evaluation of general performance on graduate programme delivery.

### A. General Entry Requirements

1. A good first degree (at least a second class lower division) in a relevant field of study at the University of Ghana or any other recognised University. A minimum of two years work experience is required from all applicants desiring to pursue programmes in the University of Ghana Business School.

For more details in respect of Admission requirements, visit the university website www.ug.edu.gh.

Applicants are also advised to contact the various Departments/Schools/Institutes/Centres for additional information on the various programmes.

2. For purposes of assessing an applicant’s eligibility, he/she may be required to take an entrance examination and/or interview at the Department/Institute/School/Centre.

3. For programmes marked with asterisks (*), all MPhil applicants are admitted into the MA programme at the first instance. Students who obtain an average of B+ or better MAY progress to the MPhil programme upon recommendation by the Head of Department in consultation with the Graduate Studies Committee of his/her Department.

### How To Apply

Applicants must submit the following documents to the School of Graduate Studies.

<table>
<thead>
<tr>
<th>FAST FACTS</th>
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</thead>
<tbody>
<tr>
<td><strong>Postgraduate Programmes:</strong> 160</td>
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<tr>
<td><strong>Master of Arts (MA) Programmes:</strong> 42</td>
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<td><strong>Master of Science (MSc) Programmes:</strong> 9</td>
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<tr>
<td><strong>Degrees Conferred in 2010:</strong> 1267</td>
</tr>
</tbody>
</table>

Prof. Kwadwo Ofori
B.Sc (Ghana), MSc & PhD (Sask)
i. 2 copies of Certificate authenticated by institution awarding degree
ii. 2 copies of original Transcript.
iii. 3 Referee Reports
iv. “Proof of submission of application” form.

N/B Kindly write your serial number as it appears on the e-voucher on all the above documents before submission. The name of the programme being applied for should also be written on all documents.

2. International Applicants and Ghanaians applying from abroad should visit UNIVERSITY OF GHANA website at “www.ug.edu.gh” to download Graduate School application form. After completion, the form should be sent to the address below with a non-refundable application fee in Travellers’ cheques or International money order. Applicants within the West-African sub-region should pay the fee into the UNIVERSITY OF GHANA ECOBANK ACCOUNT.

Details of the Account are:
Account Name: University of Ghana Foreign Students Account
Account Number: 0161014409780401
Bank details: Ecobank Ghana Limited, Legon Branch
Swift: ECOCHGAC
The pay-in slip should be attached to the application form before posting it to the address below.

4. All applicants who graduated from the University of Ghana from 1996 to date should indicate their ‘STUDENT IDENTITY NUMBERS’ on their forms before submission.

The Postal address to which all international students/Ghanaians living abroad should send their completed application:

The Ag. Executive Secretary
School of Graduate Studies
University of Ghana, Legon

E-Mail: dgs@ug.edu.gh/sgsadmissions@ug.edu.gh

Please direct all further enquiries to the above addresses.

All applicants must ensure that their on-line applications are correctly filled and receipt acknowledged on submission.
UG’s branch of the Graduate Students Association of Ghana [GRASAG] represents the special needs and interests of graduate students of the University. All graduate students registered at the University are automatically members of GRASAG which levies direct contributions from its members to finance its activities.

GRASAG members also maintain their membership of the Students’ Representative Council. GRASAG Executives work closely with the University Council and other Boards/Committees of the University on a wide range of issues and concerns pertaining to graduate students’ welfare.
This is a block of multipurpose facility; self contained flats for 190 students. The Hostel, which was completed in June 1996, is amongst a number of hostels donated to the university by the Valco Trust Fund. Located behind Mensah Sarbah Hall on the southern part of the campus, the flats are arranged in single and double study bedrooms with en suite shower and toilet. There is a shared kitchen for every twelve rooms. Facilities in the hostels include common rooms, washrooms and a restaurant.
### Faculty of Arts

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## Faculty of Social Sciences

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<tr>
<td>Finance</td>
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<td>MBA Finance</td>
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<td>MPhil Finance</td>
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<td></td>
<td>MPhil Risk Management &amp; Insurance</td>
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<tr>
<td>Marketing &amp; Customer Mgt</td>
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<td></td>
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<tr>
<td>Accounting</td>
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<tr>
<td>Organisation &amp; Human Resource Management</td>
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<td>MPhil Human Resource Management</td>
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<tr>
<td>Public Administration And Health Services Management</td>
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<td>MBA Health Services Management</td>
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<td>MPhil Public Administration</td>
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<td>MPhil Health Services Management</td>
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<td>Operations And Management Information Systems</td>
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<td>MPhil Management Information Systems</td>
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<tr>
<td></td>
<td>MPhil Operations Management</td>
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The following Postgraduate Degree Programmes are also available on offer. Please refer to the General Admission Requirements and Procedures pages for further details on all UGBS programmes. You may also contact the Registrar at the University of Ghana Business School for respective Programme details.

- EMBA Finance
- EMBA Marketing
- EMBA Entrepreneurial Management
- EMBA Human Resource Management
- EMBA Project Management
- PhD Accounting
- PhD Finance
- PhD Marketing
- PhD Public Administration
# Faculty of Science

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<th>DEPARTMENT</th>
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<tbody>
<tr>
<td>Animal Biology And Conservation Science</td>
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<td>African Regional Postgraduate Programme In Insect Science (Arppis)</td>
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<tr>
<td>Biochemistry</td>
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<td>PhD Biochemistry</td>
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<tr>
<td>Botany</td>
<td>Mphil Botany</td>
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<td>PhD Botany</td>
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</tr>
<tr>
<td>Chemistry</td>
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<td>Environmental Science Programme</td>
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<tr>
<td>Earth Science</td>
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<td>Msc Ground Water Res. Devt.</td>
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<td>Msc Petroleum Geoscience</td>
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<td></td>
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<td>PhD Geology</td>
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<tr>
<td>Mathematics</td>
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<td>Mphil Nutrition</td>
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<td>PhD Nutrition</td>
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<td>Oceanography &amp; Fisheries</td>
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<td>PhD Oceanography</td>
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<td>Mphil Fisheries</td>
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<td>PhD Fisheries</td>
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<td>PhD Statistics</td>
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### University of Ghana Medical School

#### School of Graduate Studies

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<tr>
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<td>Chemical Pathology</td>
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<td>Mphil Audiology</td>
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<tr>
<td></td>
<td>Msc Dietetics</td>
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<td>Mphil Dietetics</td>
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<tr>
<td>Haematology</td>
<td>Mphil Haematology</td>
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<tr>
<td>Immunology</td>
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<td>Phd Medical Biochemistry</td>
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<td>Microbiology</td>
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<td>Phd Microbiology</td>
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<td>3-5 Yrs</td>
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<td>2 Yrs</td>
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<td>Phd Pathology</td>
<td>Regular</td>
<td>3-5 Yrs</td>
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<td>Physiology</td>
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<td>Phd Physiology</td>
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#### School of Public Health

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<td>Mphil Applied Epid. Dise. Cont.</td>
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<td>Msc Applied Health Social Sci.</td>
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<td>Msc Clinical Trials</td>
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<td>Master Of Health Informatics</td>
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<td>1 Yr</td>
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## School of Nursing

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<tr>
<td>Agric Economics And Agribusiness</td>
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<td>Mphil Agricultural Economics</td>
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<td>Phd Agricultural Economics</td>
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## Faculty of Engineering Sciences

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<td>Mphil Agric Engineering</td>
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<td></td>
<td>Phd Agric Engineering</td>
<td>Regular</td>
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</table>
After assessing various universities in terms of their facilities, course content, faculty competence and experience; it was obvious that The University of Ghana Business School (UGBS) did stand poles apart from the rest. It has a goodwill in administering its Masters programmes. It is equipped with state-of-the-art facilities which provide students with an enabling academic environment. The course content of the MBA-Accounting at UGBS is relevant to current trends in Financial Reporting and the management of organisations. The school can boast of a lot of competent and seasoned lecturers who are also consultants to several firms hence a display of both academia and professional knowledge in their delivery.

Graduates from the school are highly sought after by institutions and professional bodies both local and international, due to their versatility, competence, open mindedness, exposure, critical thinking capacity and the ability to achieve results.

Administratively, students serve on all committees within the school and their inputs are considered in decision making. Seminars, fora, conferences and meetings are held regularly to update students on policies and also to address students’ grievances. Some courses are lectured by two or three lecturers to ensure an excellent lecturer-student ratio.

I am without a doubt that at the end of my degree, I would be equipped with skills in leadership, planning and executing organisational policies and programmes and in addition to the needed capacity to establish and effectively manage an accounting consulting firm. So if you desire to acquire the necessary abilities, skills, attitude, ethics, and exposure that are critical to effective leadership and management, look no further than the UGBS.
### School of Nuclear And Allied Sciences

<table>
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<tbody>
<tr>
<td>School of Nuclear And Allied Sciences</td>
<td>Mphil Applied Nuclear Physics</td>
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<td>School of Nuclear And Allied Sciences</td>
<td>Phd Applied Nuclear Physics</td>
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<td>3-5 Yrs</td>
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<tr>
<td>School of Nuclear And Allied Sciences</td>
<td>Mphil Computational Nuclear Science And Engineering</td>
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<td>School of Nuclear And Allied Sciences</td>
<td>Mphil Medical Physics</td>
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<td>3-5 Yrs</td>
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<td>School of Nuclear And Allied Sciences</td>
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<td>3-5 Yrs</td>
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NB: 1 Sandwich Year = two long vacation sessions of 8 weeks duration each
Duration For Phd: 3 yrs (full time), 5 yrs (part time)