

KWAME NKURUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI
SCHOOL OF GRADUATE STUDIES

ADMISSION OF CANDIDATES TO RESEARCH OR HIGHERDEGREE PROGRAMMES, 2014/2015 ACADEMIC YEAR

Applications are invited from suitably qualified candidates for admission to research and higher degree programmes (MSc/MFA/MA/MBA/EMBA/MPH/M.PHARM/M.PHIL/PhD)

GENERAL ADMISSION REQUIREMENTS

i. Masters' Programmes

At the time of application, applicants should possess a Bachelor's Degree or its equivalent from a recognized Institution in the relevant field of study.

Preference will be given to applicants with a FIRST CLASS, SECOND CLASS (UPPER OR LOWER DIVISION)

ii. Ph.D Programmes

Candidates applying for Doctor of Philosophy degree must have a Master's degree or its equivalent from a recognized Institution and shall submit evidence of adequate training and ability to undertake the proposed programme.

DURATION OF PROGRAMME

Unless otherwise stated,

- Master's Programmes (Full-Time) are of Two (2) Academic Years and (Part-Time) Three (3) Academic Years duration.
- Ph.D Programmes (Full-Time) are of Three (3) Academic Years and (Part-Time) are of Four (4) Academic Years duration.

MODE OF APPLICATION

Sale of **E-Vouchers/Forms** for admission shall commence on Monday 27th of January, 2014.

- i. First of all candidates must purchase an **eVoucher** by paying an application fee at the locations listed below.

- ii. Upon payment of the application fee, candidates will receive an **eVoucher** containing an application number and **PIN** that will grant access to the online admissions portal.
- iii. Candidates should then proceed to online admissions website at; **admissions.knust.edu.gh** and begin the application process.
- iv. Once the process has been completed, candidates must print out 3 copies of the completed application form from the portal and submit them to the School of Graduate Studies along with all relevant documents (Photocopies of Certificates, Recommendation letter, and transcript (for those attending KNUST for the first time).

APPLICATION FEE- GH¢ 180.00 by cash at the **School of Graduate Studies (behind Dept. of Chemistry Building)** and Strictly by Bank Draft (**payable to the School of Graduate Studies**) at the Centres listed below.

- Kumasi-School of Graduate Studies, KNUST.
- Accra-KNUST IDL Office at Catholic Institute of Business and Technology, Adabraka, near GNAT Hall. Contact 0209140115.
- Sunyani- University of Energy and Natural Resources, Tel.03520-2346.ContactMr.ClementKusoryir (Tel.0277046948).
- Koforidua Centre; Contact Mr. Foster Ofori, Tel. 0244811805
- Tamale Centre; Contact Mr. Abdul-Razak, Tamale Polytechnic (Marketing Department) Tel. 0244772040
- Bolgatanga Centre: Contact Mr. Mukassa, Tel. 0208288666
- Takoradi Polytechnic, Takoradi, Contact: Mr. Emmanuel Opintin-Baah, Building Tech. Dept. Tel.0244865578

Deadline for the submission of application forms is Monday 31st March, 2014.

Application forms submitted after the deadline will not be processed.

NB: All International Applicants must apply online.

International applicants who are admitted will be required to pay an application fee of USD 200.00 before registration.

**POSTGRADUATE PROGRAMMES FOR 2014/2015
ACADEMIC YEAR**

**A.
COLLEGE OF AGRICULTURE AND RENEWABLE
NATURAL RESOURCES**

FACULTY OF AGRICULTURE

1. Department of Animal Science

MSc/MPhil Programmes

Animal Breeding and Genetics; Reproductive Physiology; Animal Nutrition and Meat Science.

PhD Programmes

Animal Nutrition; Reproductive Physiology; Animal Breeding and Genetics.

Admission Requirements

Master of Science (MSc), Master of Philosophy (MPhil);

A good Bachelor's degree (1st Class or 2nd Class Upper) in Agriculture or related disciplines from KNUST or any recognized University. Candidates with 2nd Lower are required to pass an interview.

2. Department of Crop and Soil Sciences

MPhil

Agronomy; Agronomy (Plant Breeding); Agronomy (Crop Physiology); Agronomy (Forage Production Management); Agronomy (Weed Science)

MPhil

Crop Protection (Entomology); Crop Protection (Plant Pathology); Crop Protection (Nematology); Crop Protection (Plant Virology); Soil Science.

PhD

Agronomy: Plant Breeding; Nematology; Entomology; Plant Virology; Plant Pathology; Crop Physiology; Soil Science; Forage Production Management; Soil Management & Conservation; Soil Fertility/Plant Nutrition.

3. Department of Horticulture

The Department offers **M.Phil**, programme in the Following fields: Postharvest Physiology; Floriculture; Fruit Crop Production; Postharvest Technology; Seed Science and Technology; Vegetable Crops Production; Landscape Studies and Breeding of Horticultural Crops.

PhD

Postharvest Technology; Vegetable Crops Production; Seed Science and Technology; Landscape Studies and Postharvest Physiology.

Admission Requirements

In addition to the general entry requirements of the School of Graduate Studies, candidates with first class degrees in Agriculture, Horticulture, Agronomy, Biological/Environmental Sciences, Forestry, Agro-Forestry and Postharvest Technology will be considered. Candidates with degrees in Architecture, Planning, Geography, Fine Art, Civil Engineering and Building Technology may also be considered for programmes in Landscape Studies only.

4. Department of Agricultural Economics, Agribusiness and Extension

PhD/ M.Phil - Agricultural Economics

Ph.D - Agricultural Extension

MPhil in Sustainable and Integrated Rural Development

FACULTY OF RENEWABLE NATURAL RESOURCES

1. Department of Wildlife and Range Management

M.Phil/Ph.D - Wildlife and Range Management

M.Sc - GISNATUREM (Natural Resources Management)

2. Department of Silviculture and Forest Management

M.Phil - Silviculture and Forest Management.

M.Phil - Natural Resource & Environmental Governance

Ph.D - Silviculture and Forest Management.

Admission Requirements

A good first degree in Natural Resources Management, Agriculture, Natural Sciences or related areas.

M.Phil - Natural Resource & Environmental Governance

A bachelor degree (1st or 2nd Class Upper Div. in Natural Resource Management, Environmental Management, Agriculture, Engineering, Planning, Land Economy, Law, Business, Social or Natural Sciences. Applicant with 2nd Class Lower and some work experience may be admitted after an interview.

3. Department of Agroforestry

M.Sc/M.Phil/Ph.D – Agroforestry

4. Department of Wood Science and Technology Management

M.Sc - Wood Technology and Management

M.Phil - Wood Science, or Wood Technology

Ph.D - Wood Technology, Timber Engineering, or Furniture Design

5. Department of Fisheries and Watershed Management

M.Phil/PhD - Aquaculture

M.Phil/PhD - Watershed and Fisheries Management

M.Phil/PhD - Aquatic Resources Management

PhD - Fisheries Management

PhD - Aquaculture Management

PhD - Aquaculture & Environment

Admission Requirements

In addition to the general requirements, preferred disciplines are in Fisheries, Aquaculture, Biological Sciences or relevant aspects of Agriculture.

B.

COLLEGE OF ART AND SOCIAL SCIENCES

FACULTY OF ART

1. Department of General Art Studies

M.Phil - Art Education

A good BA, BFA, BPhil or Bed degree (1st or 2nd Class) in Art Education or any Visual Arts discipline from KNUST or other recognised university. Submission of a synopsis on a topic will be required. A good pass (65% or better) at an entrance examination is required and an interview will be conducted

for applicants. At least two (2) years teaching or school administration experience required.

PhD- Art Education

MA, MPhil, MFA or MEd. Art Education or any Visual Arts discipline from KNUST or other recognised university. Submission of a proposal will be required. A good pass (70% or better) at an entrance examination is required. A selection interview will be conducted. At least Two (2) years teaching or School administration experience. Evidence of journal publication/conferences attended.

M.Phil - African Art and Culture

A good BA or BPhil degree (1st or 2nd Class) in any field of Arts from any recognised university; Evidence of prior learning and experience in Research Methodology and Thesis Writing, Submission of a Synopsis on an appropriate topic in the field of Arts; A good pass (65% or better) at an entrance examination and selection interview to be determined by the Department Board; At least two (2) years working experience in the field of Arts.

PhD - African Art and Culture

MA or MPhil African Art & Culture degree from KNUST or any recognised university; Evidence of prior learning and experience in Research Methodology at the master level; Submission of a Dissertation proposal on an appropriate topic in the field of Arts; Evidence of research scholarship such as Thesis, Project Report or journal publication; A good pass (70% or better) at an entrance examination and selection interview to be determined by the Departmental Board; at least two (2) years of working experience.

2. Department of Painting and Sculpture

MFA/ M.Phil/Ph.D Painting, Sculpture, and Painting & Sculpture

Admission Requirements for MFA

Candidates must possess either a BA (Art) or BFA degree or its equivalent, preferably with First Class or Second Class (Upper Division). Candidates with other qualifications and divisions may be admitted after an interview.

3. Department of Publishing Studies

M.A - Publishing Studies

(1st class or 2nd class). First degree in Publishing Studies or any other discipline plus 2 years work experience in the industry or related field. Provide a statement of aims and objectives highlighting reasons for wanting to enrol in the programme. Pass written exam and an interview. Present a Portfolio during interview.

4. Department of Industrial Art

MFA Metal Smithing, Jewellery, Textiles Design and Ceramics

Admission Requirements

A good first degree in Metalsmithing and Jewellery, Textile Design and Ceramics or its equivalent from a recognized university. Candidate will have to pass an interview and must present a portfolio. Second Class Lower division with two years working experience may be considered.

5. Department of Communication Design

Masters in Communication Design

Admission Requirements

1st degree in Graphic Design/Communication Design

2 years working experience.

6. Department of Integrated Rural Art and Industry

i. Master of Integrated Art Degree (MIA) (Full Time/Part Time)

ii. MPhil (Integrated Art)

Admission Requirements:

- a) Applicants must have a first degree in Integrated Rural Art and Industry preferably a First Class or Second Class Honors (Upper Division) or a first degree in a closely related field. Applicants with Postgraduate Diploma in Integrated Art will be admitted to the Second Year of the Masters Degree programme. Candidates with a second class lower division and considerable relevant professional experience may also apply.
- b) Applicants must be successful at an interview and assessment of portfolio in the areas of research.

Areas of Specialization:

Fibres and Fabrics Technology; Leather Technology; Clay and Earthenware Technology; Woodworking Technology; Metals Fabrication Technology; Bamboo and Rattan Technology and Product Design Technology.

- c) Study in Product Design Technology is equally available to candidates with good first degree in relevant 3D based programmes, such as; Graphic Communication, Painting, Architecture, Computer Science and Engineering.

FACULTY OF SOCIAL SCIENCES

1. Department of Economics

MSc./M.Phil/Ph.D

Admission Requirements

A One (1) - Year Programme

MSc. Economics

MSc. Economics (Money, Banking and Finance Option)

MSc. Economics (Energy and Resource Economics Option)

A good first degree at least Second Class Lower Division in the following discipline; BA/BSc Economics, BA/BSc Economics (with Finance, Mathematics, Statistics, Geography, Law, Sociology, Political Science and History); Bachelor of Business Administration, BSc Mathematics/Statistics/Engineering/Physics/Actuarial Science/Environmental Science/ Land Economy/Natural Resource Management; BA/BSc Geography/ Geography and Resource Development/Geography and Rural Development/Geography and Regional Planning; BA/BSc Development Studies; and related disciplines. Admission is subject to passing an interview.

A Two (2) - Year Programme

M.Phil (Economics) - A good first degree in Economics at least Second Class (Upper Division). Candidates must have done Econometrics, Advanced Economic Theory and Mathematics for Economists at the undergraduate level in a recognized tertiary institution. Admission is subject to passing an interview.

A Three (3) - Year Programme

Ph.D (Economics) - A good first degree in Economics at least Second Class (Upper Division) plus a good masters degree in economics or related field at least an overall grade of a B or equivalent, with sufficient background in Microeconomics, Macroeconomics and Econometrics from a recognized tertiary institution. A good background in statistics and Mathematics will be an added advantage. A thesis proposal on the proposed thesis topic is required. Admission is subject to passing an interview.

2. **Department of Modern Languages**
M.Phil French

Admission Requirements

Candidates must hold a good 1st degree in French or a Postgraduate Qualification relevant to the area of study from a recognised university. In addition, candidates may be required to pass a written examination and interview.

Ph.D French

Admission Requirements

Candidates must hold a Master's degree in French from a recognised University and must submit a research proposal acceptable to the Postgraduate Coordinating Team. In addition, candidates will be required to pass a selection interview.

3. **Department of English**
M.Phil (English)

Admission Requirements

For admission into the MPhil programme, an applicant should have graduated in English major. All applicants must pass an interview.

Ph.D (in literature)

Admission Requirements

For admission into the PhD programme, an applicant should possess an MA or MPhil in English. In addition, candidates in the Department's MPhil programme, who perform well in their first year of course work, may be recommended by the Department for transfer to the PhD programme.

4. **Department of Geography and Rural Development**
(a) M.Phil

Admission Requirement

A good first degree in Geography. Admission is subject to passing an interview.

(b) PhD

Admission Requirements

Candidates shall possess an MA or MPhil. Admission is subject to passing an interview.

5. **Department of Religious Studies**
PhD /M.Phil/MA

Admission Requirements:

MPhil (Two Years) – A candidate must have obtained a good first degree (Second Class Upper division or better) in either Religious Studies or Theology from a recognised University or accredited Theological Seminary/Institution.

MA (One Year) – A candidate must have obtained a good first degree (Second Class lower division or better) in either Religious Studies or Theology from a recognised University or accredited Theological Seminary/Institution. For both programmes a candidate with the Social Sciences or Humanities background must in addition at least have a Diploma in Theology/Religious Studies from a recognised/accredited Institution or Seminary. Admission is subject to passing an interview.

6. **Department of Sociology and Social Work**
MPhil/MA Sociology

Admission Requirements

A good first degree in Sociology or Social Work from an approved University. For the purposes of assessing suitability, candidates may be interviewed or be required to take entrance examination or both.

7. SCHOOL OF BUSINESS

1. Department of Managerial Science
2. Department of Accounting and Finance
3. Department of Marketing and Corporate Strategy
4. Department of Service Management
5. Department of Information Systems and Decision Science

Admission Requirements:

A. Master of Business Administration (MBA) Full-Time and Part-Time (Evening Classes).

- i. Bachelor's degree of at least 2nd Class Lower Division or its equivalent from a recognised institution in any relevant area
- ii. Possess a minimum of 2yrs post first degree work experience
- iii. Pass a selection interview/written examination.

B. Master of Business Administration (MBA)-Weekend Classes.

- i. Bachelor's degree of at least 2nd Class Lower Division or its equivalent from a recognised institution in any relevant area
- ii. Possess a minimum of 5yrs post first degree work Experience in senior management/leadership position.
- iii. Pass a selection interview/written examination.

Areas of Specialization

- Human Resource Management
- Mgt and Organization Development
- Accounting
- Finance
- Marketing
- Strategic Management & Consulting
- Management Information Systems
- Entrepreneurial & Small Business Mgt
- Logistics & Supply Chain Management
- Hospitality and Tourism Mgt.
- Operations Management
- International Business

C. MBA-International Management Resources &

Environment.

Admission Requirements

1. Bachelor's degree of at least 2nd Class Lower in Science or Engineering from a recognised Institution.
2. Passes a Minimum of 2 years post first degree work experience.

D. MSc Logistics and Supply Chain Management

Admission Requirements: Applicant with background in Business, logistics, shipping, procurement, retailing, marketing, project management, pharmacy and engineering.

- i. Applicant must have a first degree with a minimum second class lower division in logistics, procurement, operations and/ or supply chain management with relevant working experience or;

- ii. First degree with a minimum of second class lower division in any business related discipline or economics with relevant working experience in the areas of logistics, procurement, operations or supply chain.
- iii. First degree with a minimum second class lower division in any discipline and a chartered member of CIPS, CILT, IOM or ISCM with relevant working experience.
- iv. Foreign Students should be able to proof proficiency in English by showing evidence that instruction during their tertiary education was in English.
- v. Foreign students who cannot show evidence of (e) above must show results of the IELTS exam with an overall IELTS score of 6.5 with 5.5 in all element.

E. One Year Top-Up MBA Specialization

Admission Requirements:

- Candidates must hold a good bachelor's degree (Second Class-Lower Division or better)
- Candidates must in addition possess a Masters degree in Business Administration (MBA) or Commonwealth Master of Business Administration (CEMBA) from a recognized institution.
- Admission to the programme will be preceded by an interview.

F. MPhil Business Administration

C.

COLLEGE OF ARCHITECTURE AND PLANNING

1. Department of Architecture

M.Phil-Options

- Conservation of the Built Environment; Housing; Building & Environment; Architectural History & Appreciation; Conservation and Restoration; Landscape design; Environment & Behaviour.
- M.Arch. in Architecture- Two years
- MSc. Architecture- One year

Admission Requirements

M.Phil: These programmes are offered to students with architecture background, after obtaining a first undergraduate degree. Admission to these programmes may be preceded by an interview.

MSc. Architecture

Students who have completed the Postgraduate Diploma (or higher) in Architecture and related fields of study from recognized university will be admitted into the programme.

- a. Students must demonstrate relevant experiences as well as the capacity to undertake advanced academic study.
- b. Portfolio of architectural studies (or related fields) works.
- c. In addition to these requirements, all applicants must pass an interview by a panel from the Departmental Board.

2. **Department of Building Technology**
M.Sc /MPhil - Construction Management
12 months for MSC and 2yrs for MPhil.

Admission Requirements

- Candidates must hold a good bachelor's degree in Architecture, Building Technology, Quantity Surveying and Civil Engineering.
- Candidates must have a minimum of two years relevant industrial or research experience.
- Admission to the programme will be preceded by an interview.

M.Sc/MPhil (Procurement Management)

12 months for MSC and 2yrs for MPhil.

Admission Requirements

Candidates must hold a good bachelor's degree in Architecture, Building Technology, Quantity Surveying Civil Engineering, Land Economy and Business Administration (with at least 2yrs working experience).

Admission to the programme will be preceded by an interview.

MPhil (Building Technology)

Admission Requirements

- Candidates must hold a good bachelor's degree in Architecture, Building Technology, Quantity Surveying and Civil Engineering.
- Candidates must have a minimum of two years relevant industrial or research experience.
- Candidates must submit a suitable proposal and workable programme that fit into the construction industry and acceptable to the Departmental Board.
- Admission to the programme will be preceded by an interview.

PhD (Building Technology)

Admission Requirements

- A candidate shall hold a Master's degree or its equivalent from a recognized institution in Architecture, Building Technology, Quantity Surveying and Civil Engineering.
- A Candidate shall submit evidence of adequate training and ability to undertake the programme
- Candidates must have a minimum of two years relevant industrial or research experience
- Candidates must attend an interview session and pass the interview before admission
- Candidates must submit a sustainable proposal and workable programme that fit into the construction industry and acceptable to the Department Board.

3. **Department of Planning**

M.Sc (Development Policy and Planning)--REGULAR

M.Sc (Development Policy and Planning)-WEEKENDS

M.Sc. (Development Planning and Management) –SPRING PROGRAMME. -REGULAR

M.Sc. (Development Planning and Management) –SPRING PROGRAMME. –PART TIME.

M.Phil – Development Studies/ Planning (by research)

Ph.D – Development Studies/ Planning (by research)

MPhil- Urban Management Studies (Part-time only)

Admission Requirements

Ph.D in Development Studies/Ph.D in Planning: candidate must hold the M.Phil degree in Development Studies from the Department of Planning or a Master's degree in a relevant subject from a recognised University. Candidates with Master's degrees in a relevant subject from an institution other than the Department of Planning may have to do extra work to meet graduation requirements.

M.Phil in Development Studies/M.Phil in Planning: candidates with a bachelor's degree in the second class upper division and above in a relevant subject. Candidates with a good bachelor's degree in relevant subject may be admitted after passing an interview. In addition to the above, candidates for admission must have at least two years relevant field or practical experience.

MSc. Development Planning and Management (SPRING) and MSc. Development Policy and Planning

- I. The programme is open to planners, managers and administrators from Africa who have a good bachelor's degree or its equivalent in Planning, Agriculture, Architecture, Economics, Engineering, Geography, Sociology, Social Studies, Integrated Development Studies, Land Economy, Administration, Agricultural Engineering, Environmental Studies and Natural Resource Management from institutions recognised.

4. Department of Land Economy M.Phil/Ph.D (Land Management)

D. COLLEGE OF HEALTH SCIENCES

FACULTY OF PHARMACY & PHARMACEUTICAL SCIENCES

1. Department of Pharmaceutical Chemistry MSc/M.Phil/Ph.D

Pharmaceutical Analysis and Quality control; Medicinal Chemistry; Phytochemistry including Bioactivity and Safety testing of Photochemicals; Pharmacokinetics and Drug Metabolism; Kinetics of Drug Decomposition and Stability of Drug products; Powder Technology; Gum Technology and Stability Studies; Formulation and Stability Studies; Herbal Medicinal Plants Research;

Antimicrobial Agents and their actions; Microencapsulation; Preservation Pharmaceuticals; Biopharmaceutics and Pharmacokinetics and Drug Delivery.

Admission Requirements

Candidates with a good first degree in Pharmacy, Chemistry or Biochemistry may be considered for admission.

2. Department of Pharmaceutics M.Phil/PhD- Pharmaceutics MPhil/PhD – Pharmaceutical Microbiology MSC -Pharmaceutical Technology

Admission Requirements

Candidates with a good first degree in pharmacy, Biochemistry, Chemistry, Microbiology or other related disciplines of this University or an approved institution may be considered for admission.

Areas of Research for MPhil/PhD

Pharmaceutical Technology; Dosage Form Design; Formulation & Stability Studies; Antibiotics Resistance; Microencapsulation; Drug Delivery System; Biopharmaceutics & Pharmacokinetics; Antimicrobial Agents and their actions; Preservation of Pharmaceuticals; Herbal Medicinal Plants Research; Gum Technology & its application to pharmacy and Power Technology.

3. Department of Pharmacology M.Phil/Ph.D

Pharmacology and Toxicology; Natural products with anti-inflammatory and analgesic activity; Safety Assessment and Toxicology of Natural Products and CNS Activity of Local Medicinal Plants.

Admission requirements

In addition to the general entry requirements, candidates with equivalent qualification in Medicine and the Basic Sciences may be considered for admission.

4. Department of Pharmacognosy MPhil/PhD

Phytochemistry; Phytopharmaceutical Analysis and Quality Control; Standardization of Herbal Preparation; Herbal Medicinal Plants Research; Ethnopharmacological Studies; Toxicity of Herbal Preparations; Nutraceuticals

Research; Natural Product Chemistry; Research into Antimicrobial Agents and their actions; Wound Healing Agents; Antimalarial agents from plant; Agents for Soil - transmitted Helminthiasis (STH); Mosquito repellent agents from plants; Anti-hypertensives; Anti-diabetic agents research; Anti-inflammatory and analgesic agents research; Research into Neglected Tropical Diseases (NTDs) and agents to combat them; Anti-asthmatic agents; Effect of radiation on medicinal plants and foods.

Admission Requirements

In addition to the general entry requirements, applicants with a good Bachelor's degree or a recognized qualification in Pharmacy, Biological Sciences, Botany, Chemistry, Biochemistry, other basic sciences and related areas will be considered for admission.

5. Department of Clinical & Social Pharmacy

MSc/PhD - Clinical & Social Pharmacy

MSc Clinical Pharmacy – Part-time (Taught & Research)

Requirements:

PhD

MSc/MPhil degree in Clinical or Social Pharmacy or relevant health-related discipline.

MSc- a First degree in Pharmacy or relevant health-related discipline.

SCHOOL OF MEDICAL SCIENCES

1. Department of Community Health

PhD - Community Health

MSc/ MPH - Health Services Planning and Management

MSc/ MPH - Health Education and Promotion

MSc /MPH - Population and Reproductive Health

MSc/MPH - Disability, Rehabilitation and Development

Admission Requirements

PhD

- I. A candidate shall hold a Master's degree or its equivalent from a recognised institution and shall submit evidence of adequate training and ability to undertake the proposed programme.
- II. Candidates who do not hold a Master's degree shall first register for a Master's degree by research. If proven to be of sufficient calibre by the

end of the first year of the programme, they may be permitted by the Board, to register for the PhD degree. This registration shall be deemed retrospective from the date of the original registration for the Master's degree.

- III. Candidates who do not satisfy the requirement stated above but are otherwise adjudged suitable may be admitted. For the purpose of assessing his suitability, such candidates may be interviewed or be required to take entrance examination, or both, as directed by the Board on the recommendation of the appropriate Department Board.
- IV. Candidate may be required, on the recommendation of the Department concerned, to audit appropriate courses.

Admission Requirements

MSc/MPH

Candidates must possess a good first degree in any of the life sciences such as Medicine, Nursing, Veterinary Medicine, Public Health, Environmental Health, etc.

2. Department of Clinical Microbiology

MSc/M.Phil/Ph.D -Clinical Microbiology

Candidates for the M.Phil/PhD programmes should contact the Head of Department on their proposed research projects before applying.

3. Department of Molecular Medicine

Laboratory work/research (A proof of funding is also required)

M.Phil – Chemical Pathology, Immunology

Requirements: A good degree in Medical Laboratory Technology, Pharmacy, Human Biology and Herbal Medicine. The candidate should have a flair for Medical Laboratory work/research.

MSc Chemical Pathology/ Immunology

Good degree in Biochemistry, Chemistry or pharmacy. A degree in Medical Laboratory Technology, Human Biology and Herbal Medicine.

PhD – Chemical Pathology. A good degree in M.Phil Chemical Pathology or MSc Clinical Biochemistry in a recognized university. Prospective candidates should be successful at pre-admission interview.

PhD – Immunology. A good degree in M.Phil Biological Sciences, Biochemistry or MSc in Immunology or any of the Life Sciences in a recognized University. Prospective candidates should be successful at a pre-admission interview.

4. Department of Anatomy and Cell Biology

MPhil Human Anatomy and Cell Biology Programme

MPhil Human Anatomy and Forensic Science Programme.

A good 1st Class and 2nd (Upper Division) in Biological Sciences, Anatomy and Cell Biology, Medical Laboratory Technology, or related disciplines, MB.Ch.B or its equivalent from a recognised institution. The candidate should have a flare for laboratory work or research. Prospective candidates should be successful at a preadmission interview.

PhD in Human Anatomy and Cell Biology

MSc/MPhil in Human Anatomy and Cell Biology, Biological Sciences, Biomedical Sciences, Medical Laboratory Technology from a recognised university. The candidate should have a flare for laboratory work or research. Prospective candidates should be successful at pre-admission interview.

MPhil. Mortuary Science and Management

First or Second Class (Upper Division) degree in Biological Sciences, Biomedical Science, Anatomy and Cell Biology, Medical Laboratory Technology from a recognised University.

5. Department of Physiology

MPhil Human Physiology

MPhil Reproductive Physiology

6. Department of Eye, Ear, Nose and Throat:

M.Sc – Audiology- 2-year

Admission Requirements

- Candidates must hold a good bachelor's degree in Science, Nursing, Linguistics, Psychology, Medicine and Special Education.
- Candidates with equivalent degrees are also legible to apply.
- Admission to the programme will be preceded by an interview

M.Sc (Speech & Language Pathology)-2-year

Admission Requirements

- Candidates must hold a good bachelor's degree in Science, Nursing, Linguistics, Psychology, Medicine and Special Education.
- Candidates must have a minimum of two years relevant research experience.
- Admission to the programme will be preceded by an interview

F.

COLLEGE OF SCIENCE

1. (a) Department of Biochemistry and Biotechnology

MPhil/PhD Biochemistry

Admission Requirements

The candidate must have a minimum of first degree in the Life Sciences or Chemistry on condition that the candidate will audit basic Biology/Biochemistry courses. In rare cases where the background is lacking, the student must enrol in undergraduate classes first in order to make up the deficiencies.

MSc. Biotechnology

Admission Requirements

Students applying for the programme should have adequate background in Biological Sciences/Biochemistry and/or in an appropriate related Sciences or Engineering such as Chemistry, Pharmacy, Agricultural Sciences, Chemical Engineering and Renewable Natural Resources.

Students with little or no background in Biological Sciences would be expected to take selected undergraduate courses which should include at least two semesters of Cell Structure, Plant and Animal Physiology, Genetics and Biophysics or Analytical Biochemistry as pre-requisites and to remove other deficiencies.

MPhil Human Nutrition and Dietetics

Admission Requirements

The course is intended for graduates with BSc first or second class honors degrees or equivalent in Nursing, Biological Sciences, Biochemistry, Food Sciences, Nutrition, Medicine, Dietetics or related disciplines.

1b. Department of Food Science and Technology

PhD Food Science and Technology

All prospective candidates in the following disciplines are eligible to apply: MPhil Food Science, MSc Food Science and Technology, MSc Chemical Engineering or a suitable MPhil equivalent. Some candidates may have to pass an interview and/ or audit some post graduate course work.

MSc/M.Phil Food Science and Technology

Prospective candidates in the following discipline are eligible to apply: BSc Food Science and Technology, BSc Food Science and Nutrition, BSc Biochemistry, BSc Biology, BSc Agric, BSc Natural Resources, BSc Chemistry, BSc Agricultural Engineering, BSc Chemical Engineering and all other BSc equivalent courses. Some candidates may audit some courses in BSc Food Science and Technology alongside the Post graduate courses.

MSc Food Science and Technology

Candidates for admission shall be required to have a BSc degree in Nutrition, Biochemistry, Biology, Chemistry, Agricultural Science, Agricultural Engineering, Chemical Engineering and Natural Resources Management.

Or

Higher level professional qualifications or an advanced degree and relevant work experience in food related establishment could be considered where applicant is assessed individually on their own merit through interview.

MSc Food Quality Management

- a. Candidates for admission shall be required to have a BSc degree in Food Science and Technology, Biochemistry, Nutrition Science, BSc Biology and BSc Chemistry.
- b. Higher level professional qualifications or an advanced degree and relevant work experience in food related establishment could be considered where applicants have not reached the standard entry requirements, though every applicant is, assessed individually on their own merit through interview.
 - ❖ *Must audit Basic Metabolism and their Food Microbiology/Food Hygiene.*

MPhil/MSc Forensic Science

Candidates must have a good first degree in Physics, Chemistry, Biochemistry, Biology, Molecular Biology, Pharmacy and Human Biology. Candidates who are already employed in the relevant forensic related areas will be considered for admission.

Candidates will be admitted for FULL TIME (One & Half years for MSc and Two years for MPhil degrees), or on Part Time (Two and Three years for M.Sc and M.Phil degrees respectively)

- ❖ Student admitted will specialize in one of four areas, namely:
- ❖ Forensic Biology and Serology
- ❖ Forensic Chemistry, Pharmacology & Toxicology
- ❖ Questioned Documents and Fingerprints
- ❖ Forensic Ballistics and Explosives (dependent on availability of lecturers)
- ❖ *MPhil Human Nutrition and Dietetics and MPhil/MSc Forensic Science are fee-paying programmes.*

Candidate should indicate preference (Full time or Part time).

For more information contact; victoriadzogbefia@gmail.com

2. Department of Theoretical and Applied Biology

M.Phil/Ph.D

Plant Pathology; Experimental Taxonomy; Microbiology; Animal Plant Physiology; Entomology; Genetics; Limnology and Fisheries; Pollination and Ecology of Crop Plants; Parasitology; Ecology.

M.Sc Environmental Science

Admission Requirements

In addition to the general entry requirements, candidates with good degrees in Biological Sciences, Environmental Sciences, Botany, Zoology, Natural Resources Agriculture, Biochemistry or Chemistry may also be considered for admission

The Reproductive Biology programme is open to candidates with Bachelor's degree in the following disciplines:

- i. Human Biology, Biochemistry, Biological Sciences, Pharmacology, Animal Science and Veterinary Sciences, Qualified Doctors with MB Ch.B could apply for admission to the programme

- ii. The Environmental Science programme is open to candidates with First Class or Second Class (Upper Division) degree or its equivalent.

General Requirements: Food Science & Technology and Biochemistry & Biotechnology.

- A Statement of intent, including a brief discussion (not exceeding 1500 words) of educational goals and career projections. Applicant may also include a copy of previous written scientific work.

3. Department of Chemistry
MSc/M.Phil/PhD

- Analytical Chemistry; Environmental Chemistry; Inorganic and Coordination Chemistry; Inorganic and Natural Products; Physical Chemistry; Polymer Science and Technology; and Computational Chemistry.

4. Department of Physics

i. MSc/PhD Geophysics

Options

Oil and Gas Exploration, Mineral and Groundwater Exploration; Environmental Geophysics; Seismology & Earthquake Studies and Geophysics of Impact Craters.

ii. MSc/PhD Materials Science

Options

Waste Recycling; Polymeric materials plastic processing; Zeolites and Zeolitic materials

iii. MSc/PhD Solid State Physics

Options

Thin film Semiconducting Material for solar cell applications, Ferroelectric Materials; renewable energy systems (photovoltaics and fuel cells) and Surfaces and Interfaces of Solid State Materials

Admission Requirements

Applicants must possess a good first degree from a recognised university.

iv. MSc Meteorology & Climate Science

Meteorological field observation and validation studies
Atmospheric dynamical Process
Weather Prediction

Climate change studies
Atmospheric modelling and remote sensing.

MSc/PhD Environmental Physics

Options

Atmospheric Physics; Meteorology and Climate Science: focuses on local and regional climate processes; Soil Pollution and Waste Management.

5. Department of Mathematics

- **M.Phil Pure Mathematics**

Options (Research Areas)

Number Theory; Algebra; Topology and Analysis; Functional Analysis; Differential Geometry.

- **M.Phil Applied Mathematics**

Options (Research Areas)

Modelling with Differential Equations; Mathematical Physics; Operations Research; Computational Mathematics; Mathematical Biology; Mathematical Sciences; Inverse problem of integral equations.

- **M.Phil Mathematical Statistics**

Options (Research Areas)

Stochastic Processes; Simple Survey Theory; Statistical Models; Time Series Analysis; Multivariate Analysis; Categorical Data Analysis; Biostatistics; Design of Experiments; Non Parametrics

- **MPhil Actuarial Science**

Options (Research Areas)

Financial Derivatives; Portfolio Theory; Econometrics of Financial Markets; Computational Finance; Risk Management; Fixed Income Securities; Health Insurance; Re-Insurance; Pensions; Risk Theory; Statistical Tools for insurance; Selection of Risk; Life insurance; Non-Life Insurance.

Admission Requirements

A prospective candidate must have a Bachelor degree in Mathematics/Statistics/Actuarial Sciences. The Mathematics/Statistics programme should have covered Analysis, Algebra, Differential Equations, Scientific

Computing and Mathematical Statistics. Equivalent Bachelor's degrees from other science and Engineering disciplines may be considered. Qualified candidates will have oral and written interview after which selected candidates would be recommended.

- **PhD Pure Mathematics**
Options (Research Areas)
Functional Analysis; Differential Geometry; Algebra; Topology and Analysis; Number Theory.
- **PhD Applied Mathematics**
Options (Research Areas)
Operations Research; Mathematical Physics; Mathematical Biology; Modelling with differential equations; Computational Mathematics; Mathematical Sciences; Inverse problem of integral equation.
- **PhD Mathematical Statistics**
Options (Research Areas)
Stochastic Processes; Simple Survey Theory; Statistical Models; Time Series Analysis; Multivariate Analysis; Categorical Data Analysis; Biostatistics; Design of Experiments; Non Parametrics.

- **PhD Actuarial Science**
Options (Research Areas)
Financial Derivatives; Portfolio Theory; Econometrics of Financial Markets; Computational Finance; Risk Management; Fixed Income Securities; Health Insurance; Re-Insurance; Pensions; Risk Theory; Statistical Tools for insurance; Selection of Risk; Life insurance; Non-Life Insurance.

Admission Requirement

Candidates for a PhD in Mathematics/Statistics must hold an MPhil or MSc degree in Mathematics/Statistics with a strong research background and must independently be able to carry out original scientific research. Qualified applicants will be interviewed.

6. Department of Computer Science

M.Phil - Computer Science

M.Phil - Information Technology

Candidates must have a good first degree in any of the

Following areas.

Computer Science, Information Technology/ Information Communication and Technology, Business Information Technology, Mathematics, and Engineering.

G.

COLLEGE OF ENGINEERING

1. Department of Civil Engineering

M.Sc -Water Supply and Environmental Sanitation.

M.Sc -Water Resources Engineering and Management

Admission requirements:

Applicants must have a first degree in the following fields: Civil Engineering, Geological Engineering, Agricultural Engineering, and Chemical Engineering. Candidates from Chemistry and other related engineering and science backgrounds may also apply. The programme will require First Class or Second Class Upper division. Candidates with a Second Class lower division and considerable relevant professional experience may also apply.

M.Sc -Road and Transportation Engineering

Admission requirements:

Applicants must have a first degree in an area relevant to the programme. The programme will require First Class or Second Class Upper division. Candidates with a Second Class lower division and considerable relevant professional experience may also apply. Candidates who have a satisfactory postgraduate diploma may be considered for admission on the recommendation of the Departmental Board.

M.Phil

- Geotechnical Engineering
- Transportation Engineering
- Structural Engineering
- Environmental Engineering
- Water Resources Engineering

PhD

- Geotechnical Engineering
- Environmental Engineering
- Structural Engineering
- Water Resources Engineering
- Transportation Engineering

Admission requirements:

Candidates must have a Master's degree or its equivalent and demonstrate strong aptitude for research.

2. **Department of Geomatic Engineering**
M.Sc/M.Phil/Ph.D - Geomatic Engineering
MPhil - Mineral Exploration
3. **Department of Electrical/Electronic Engineering**

MSc - Telecommunication Engineering
Admission Requirements

A good first degree in Electrical, Computer
Or Telecommunication Engineering.

Candidates who do not hold First Class or Second Class
(Upper) Honours degree may be accepted subject to passing an interview.

PhD - Telecommunication Engineering

PhD candidates shall hold a Master's degree or its equivalent in
Electrical or Telecommunication Engineering.

4. **Department of Computer Engineering**
M.Phil -Computer Engineering
PhD -Computer Engineering
5. **Department of Chemical Engineering**
MSc/M.Phil/Ph.D - Chemical Engineering

Admission requirements:

MPhil/MSc

Applicants must possess BSc (1st class or 2nd upper division) degree in either
Chemical Engineering or other Engineering/science disciplines. Candidates with
BSc Second Class Lower Division in Chemical Engineering and at least three
years relevant experience will also be considered.

All applicants will be required to pass an interview.

PhD

Applicants must possess an MSc or MPhil degree from a recognised university.
The first degree of the applicant should be first class or second class upper
division or its equivalent in Chemical Engineering or in a related field.

Course work

M Sc.

The programme is based on course work with a thesis as part of the programme.
Candidates without Chemical Engineering background may be required to take
some remedial courses alongside the prescribed courses for the
MSc programme.

MPhil

The programme is purely based on research.

PhD

Courses to be taken by students in addition to the core courses will be determined
by the advisory committee of the department. There is ample opportunity to take
courses, which lead to a broader perspective of the candidate.

6. **Department of Materials Engineering**

MSc – Environmental Resources Management

1st class or 2nd class upper division or its equivalent in Mineral Processing,
Engineering, Material Science, Architecture, Agriculture, Renewable Natural
Resources and Science.

2nd class lower applicants would be interviewed. Applicants will be required to
have some industrial experience.

7. **Department of Agricultural Engineering**

MSc/M.Phil

Agricultural Machinery Engineering; Bio-Engineering
Agro-Environmental Engineering; Food and Postharvest Engineering; Soil and
Water Engineering

PhD

Agricultural Machinery Engineering; Bio-Engineering
Agro-Environmental Engineering; Food and Postharvest
Engineering; Soil and Water Engineering; Agricultural
Engineering.

8. Department of Mechanical Engineering

- MSc - Mechanical Engineering (Thermodynamics)
M.Sc - Mechanical Engineering (Design and Manufacturing)
MSc -Mechanical Engineering (Applied Mechanics)

9. Department of Geological Engineering

- MPhil/ PhD Geological Engineering
MSc Geophysical Engineering

Admission Requirements

MPhil

BSc. Geological Engineering, 1st Class and 2nd Class (Upper Division)

Those with 2nd Class (Lower Division) will be interviewed.

PhD

Master's Degree in Engineering or relevant field of study.

MSc Geophysical Eng.

1st or 2nd Class Upper Division or others with at least 3yrs of relevant experience (Geological Engineering, Civil, Mining, Petroleum, Agricultural Engineering, Physics, Geology etc).

MPhil/PhD should be in the following areas

Engineering Geology, Hydrogeology and Mineral exploration.

Applicants whose working language is not English must show Proficiency in the English language (e.g TOEFL, IELTS, etc)

10. MSc. RETs (Renewable Energy Technologies)

Duration: 18 months

Fee: \$2,500

Admission Requirements

- Degree in Engineering or Science from a recognised University with a first class or 2nd Class (upper or lower) division.
- Some experience in Energy/Renewable Energy Industry.

11. KNUST- AFRICAN INSTITUTE OF SANITATION AND WASTE MANAGEMENT (K- AISWAM)

- a. MSc. Environmental & Sanitation Engineering

- b. MSc. Water Resources Engineering
c. MSc. Environmental Science
d. MSc. Chemical Engineering
e. MSc. Environmental Engineering
f. Master of Business Administration (MBA)

Contact Person at K-AISWAM: 0202286016/0244758977

Venue: KNUST Ashalley Botwe Campus, Accra.

ENQUIRES

Candidates who satisfy the entry requirement can contact;

**THE SECRETARY
SCHOOL OF GRADUATE STUDIES
KNUST
KUMASI**

Also, for enquiries prospective candidates may call **03220- 62139** for the Secretary.

NOTE:

Those intending to pursue Distance Learning Programmes should not purchase this form/eVouchers. You should contact Institute of Distance learning on 0322060013/14