ADMISSION REQUIREMENTS

(a) Pre-University/Bridging
The minimum admission criteria to bridging courses shall be Kenya Certificate of Secondary Education (KCSE) mean grade of C+ or its equivalent and at least a C- in the subject to be bridged or equivalent. The maximum number of courses to be bridged is two (2).

(b) Diploma
KNEC Diploma in Computer Science
Minimum of a mean grade of C (minus) at K.C.S.E. with passes in Mathematics, Physics/Physical Sciences and English. The course duration is two years, spread over five semesters and a three month industrial attachment period.

(c) Undergraduate
Candidates for the degree of Bachelor of Science in any of the major areas of Chemistry. These include Inorganic, Organic, Physical and Analytical Chemistry.

Graduates with Chemistry as their main subject in the Bachelor of Science degree programme can be employed in the government, parastatals and the private sector. Opportunities available for these graduates include laboratory based careers as well as administrative posts requiring a technical background such as factory management, customer advice and factory inspectorate.

(c) Bachelor of Science in Environmental Chemistry
The course is designed to bridge the gap between pure chemistry as taught and practiced in industry. A graduate of Bachelor of Science in Industrial Chemistry is equipped with application skills in the fields of chemical technology, such as chemical engineering, research and development, business and environmental management.

Job opportunities for industrial chemists are in areas such as chemical plant design, quality control, business management, industrial training, research and development, consultancy and entrepreneurship.

Evening programmes in Chemistry
i) Bsc. Industrial Chemistry
ii) Bsc. Chemistry
iii) Bsc. Analytical Chemistry
iv) Bsc. Environmental Chemistry
The above programmes are offered on Monday - Friday (5.30 pm - 8.30 pm) and on Saturdays (8.00 am - 5.00 pm)

DEPARTMENT OF GEOLGY

(a) Bachelor of Education Science (Geology option)
This course is designed to train graduate teachers to teach science subjects in high schools and tertiary institutions. The student combines education and geology with any other science subject chosen from mathematics, physics, chemistry and geography during the four year course. Career opportunities available for graduates of this course include teaching in high schools and tertiary institutions, and public and private institutions offering geological training and related services.

(b) Bachelor of Education Science & Bachelor of Science (by Open and Distance Learning)
These degree programmes are offered by open and distance learning method and are ideal for working people who cannot leave their jobs for a long time.

(c) B.Sc. in Environmental Geosciences
Environmental Geosciences course focuses on understanding the interactions between the lithosphere, hydrosphere, biosphere and atmosphere and thus seeks to provide remediation strategies for environmental hazards and problems. The aim of the course is to train geoscientists eligible for the traditional geosciences profession, but with a thorough understanding of environmental issues to work within multi-disciplinary teams.

Candidates seeking admission into the Bachelor of Science in Environmental Geosciences degree programme must meet the minimum University and School of Physical Sciences admission requirements.

(d) Bachelor of Science in Industrial Chemistry
The course is designed to bridge the gap between pure chemistry as taught and practiced in industry. A graduate of Bachelor of Science in Industrial Chemistry is equipped with application skills in the fields of chemical technology, such as chemical engineering, research and development, business and environmental management.

Job opportunities for industrial chemists are in areas such as chemical plant design, quality control, business management, industrial training, research and development, consultancy and entrepreneurship.
### DEPARTMENT OF PHYSICS

(a) B.Chemistry (Major/Minor)

This degree programme is designed to train graduates who will have the relevant skills to work in areas of Basic and Applied Science such as Biochemistry, Environmental Sciences, and Biomedical Sciences. It also provides training in areas such as Biotechnology, Nanotechnology, and Bioinformatics.

**Admission Requirements**

- The applicant must satisfy the minimum University of Nairobi and School of Physical Sciences entry requirements.
- In addition, the prospective candidate must have a minimum of C+ in Chemistry and C+ in Mathematics.

<table>
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<th>Year</th>
<th>Semester I</th>
<th>Semester II</th>
<th>Semester III</th>
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(b) B.Sc. Microprocessor Technology & Instrumentation

This program, designed in conjunction with the INDUSTRIAL ELECTRONICS UNIT (IEC) of the Physics Department, provides training in such current areas as Embedded Systems and related technologies as well as applications in business systems, industry, and biomedical and scientific research & instrumentation.

**Admission Requirements**

- The applicant must satisfy the minimum University of Nairobi and School of Physical Sciences entry requirements.
- In addition, the prospective candidate must have a minimum of C+ in Physics and C+ in Mathematics.

<table>
<thead>
<tr>
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<td>72,000</td>
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<td>239,500</td>
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</table>

(c) Bachelor of Science (Physics)

This is a four (4) year Degree Programme designed for candidates who are initially admitted into the School of Physical Sciences to study for a Bachelor of Science degree but wish to specialize in Physics in their third and fourth years of study.

<table>
<thead>
<tr>
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For more information, contact:

**Dean, School of Physical Sciences**

P.O. Box 30197,00100

Tel: 254-20-4442482 or 254-20-4449004/5 ext.2120

Email: info@science.uonbi.ac.ke, http://www.uonbi.ac.ke

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UNIVERSITY OF NAIROBI

COLLEGE OF BIOLOGICAL AND PHYSICAL SCIENCES

SCHOOL OF PHYSICAL SCIENCES

CERTIFICATE, DIPLOMA AND UNDERGRADUATE PROGRAMMES

1. Pre-University/ Bridging
   - Chemistry
   - Physics

2. Diploma
   - Diploma in Advanced Analytical Techniques - Chemistry
   - Diploma in Computer Studies - Physics

3. Undergraduate
   - Bachelor of Science
   - B.Sc. (by Open and Distance Learning)
   - B.Sc. Chemistry
   - B.Sc. Instrumental Chemistry
   - B.Sc. Analytical Chemistry
   - B.Sc. Environmental Chemistry
   - B.Sc. Geology
   - B.Ed. Science (Geology Option)
   - B.Ed. Science
   - B.Sc. Environmental Geosciences
   - B.Sc. Meteorology
   - B.Sc. Atmospheric Science
   - B.Sc. Physics
   - B.Sc. Microprocessor Technology & Instrumentation
   - B.Sc. Astronomy and Astrophysics

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