ENTRY REQUIREMENTS

WASSCE/NECO:

Minimum C6 in 6 subjects including 3 core subjects (Maths and English mandatory) and 3 elective subjects. (Elective /Add/Further Maths and Physics mandatory)

SSSCE:

Minimum D or a pass in 6 subjects including 3 core subjects (Maths and English mandatory) and 3 elective subjects. (Elective /Add/Further Maths and Physics mandatory)

IGCSE O-LEVEL & A-LEVEL:

Minimum of 5 credit passes in the IGCSE/O-Levels (including Maths and English) and 3 passes in the A-Levels. (Elective /Add/Further Maths and Physics mandatory)

ENGLISH IB:

Minimum of 5 credit passes in the IGCSE/O-Levels (Maths and English mandatory) and a minimum score of 4 points in 3 Higher Level (HL) subjects. (Elective /Add/Further Maths and Physics mandatory)

FRENCH IB:

Minimum of 50% overall average pass. (subject to approval NAB) (Maths, English and Physics mandatory)

AMERICAN HIGH SCHOOL:

Minimum GPA of 3.0 (Maths, English and Physics mandatory)

HOW TO APPLY

Complete the online application form:
www.acity.edu.gh/applyonline
OR
Email: **admissions@acity.edu.gh**

#AskACity

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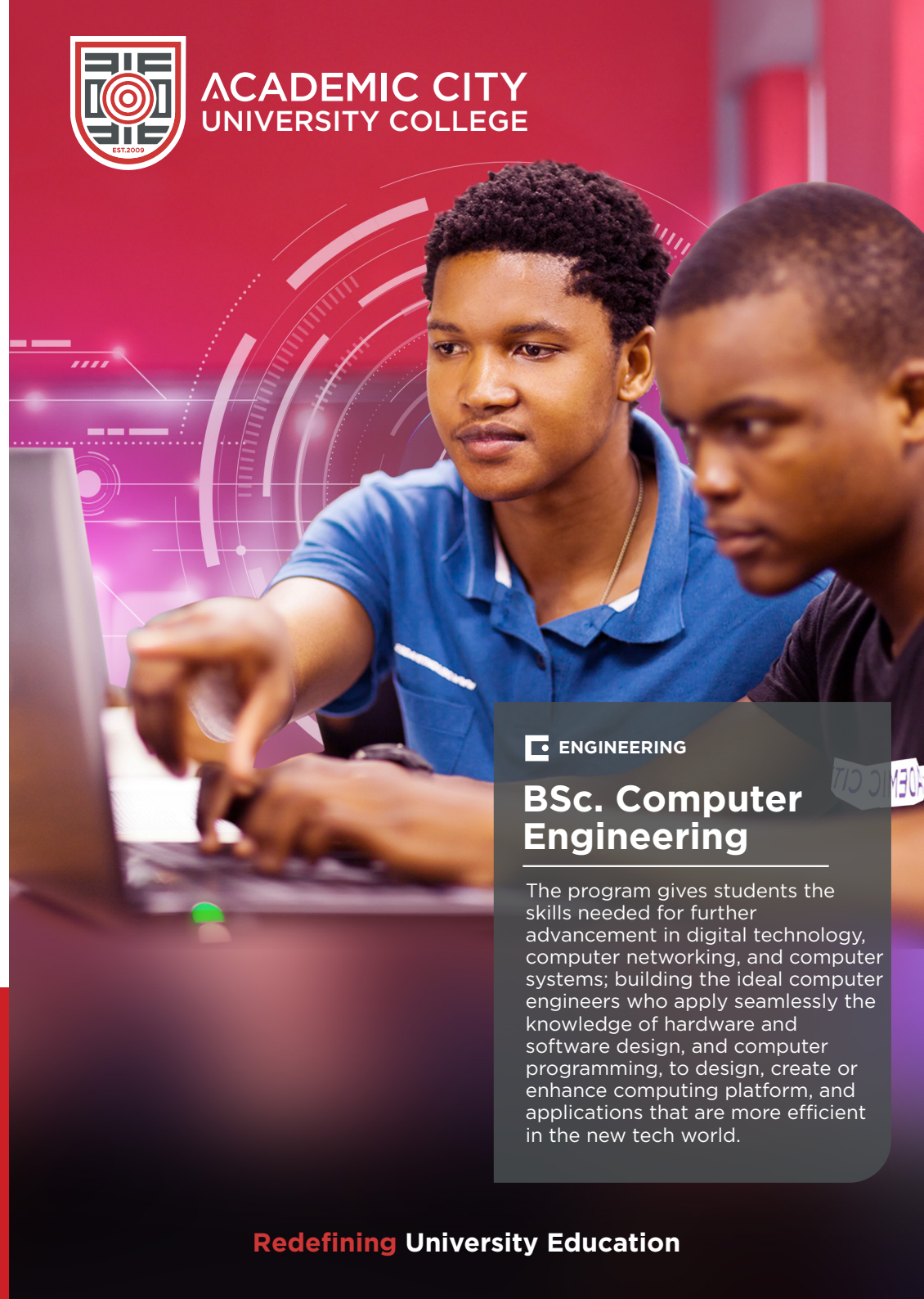
ACADEMIC CITY
UNIVERSITY COLLEGE



ENGINEERING

BSc. Computer Engineering

The program gives students the skills needed for further advancement in digital technology, computer networking, and computer systems; building the ideal computer engineers who apply seamlessly the knowledge of hardware and software design, and computer programming, to design, create or enhance computing platform, and applications that are more efficient in the new tech world.

Redefining University Education

SEMESTER 1

Course Name

Communication Skills

French Language

Fundamentals of Innovation and Entrepreneurship (FIE) Seminar I

Introduction to Engineering

Introduction to Programming with Python

Physical Sciences

Pre-Calculus (with MATLAB)

Technology and Society

SEMESTER 2

Course Name

Analytic Geometry and Calculus I (with MATLAB)

Basic Electronics

Fundamentals of Innovation and Entrepreneurship (FIE) Seminar II

Introduction to Multidisciplinary Design

Logic and Critical Thinking

Programming in C

Sensors, Measurements and Instrumentation

Text and Meaning

SEMESTER 3

Course Name

Analytic Geometry and Calculus II (with MATLAB)

Circuit Theory

Computer Systems Engineering

Data Structures and Algorithms

Fundamentals of Innovation and Entrepreneurship (FIE) I

Fundamentals of Logic Design

Introduction to Material Science and Engineering

Leadership Seminar I

SEMESTER 4

Course Name

African Studies

Applied Linear Algebra (with MATLAB)

Computer Architecture and Organisation

Digital Systems Design

Fundamentals of Innovation and Entrepreneurship (FIE) II

Microelectronics

Probability, Statistics and Reliability (with MATLAB)

SEMESTER 5

Course Name

Computer Networks

Differential Equations (with MATLAB)

Discrete Mathematics (with MATLAB)

Leadership Seminar II

Microprocessors and Microcontrollers

Signals and Systems

Operating Systems

System Dynamics

SEMESTER 6

Course Name

Automatic Control Systems

Digital Signal Processing

Embedded Systems

Industry Internship

Mechatronics

Software Engineering

Project Management, Engineering Economics and Risk Analysis

SEMESTER 7

Course Name

Computer Security

Introduction to Artificial Intelligence

Project Phase I

Technical Elective – I

Technical Elective – II

SEMESTER 8

Course Name

Environmental Science and Engineering

Professional Ethics and Values

Project Phase II

Technical Elective – III

Technical Elective – IV

ELECTIVES

Biomedical Engineering

Biomedical Instrumentation
Biomedical Signal Analysis
Real-Time Digital Signal Processing
Wireless Sensor Networks

Telecommunication

Advanced Digital Signal Processing
High Speed Networks
Remote Sensing
Telecommunication Systems
Modelling and Simulation

Intelligent Systems: Controls and Automation

Advanced Control Systems
Digital Image Processing
Machine Learning
Modeling and Analysis of Mechatronic Systems

Intelligent Systems: Robotics and Mechatronics

Advanced Control Systems
Industrial Automation and Robotics
Machine Learning
Modeling and Analysis of Mechatronic Systems

Renewable Energy Systems

Smart Grid
Solid State Electronic Devices
Energy Management for a Sustainable Future
Green Electronics