



# B.Sc Information Systems & Technology

     @USIUAfrica



**United States  
International  
University-Africa**

Education to take you places

# PROGRAM DESCRIPTION

The Bachelor of Science in Information Systems & Technology program delivers a blend of technical specialties alongside core business concepts, which are increasingly useful in the global interconnected knowledge-based economy.

DEGREE REQUIREMENTS150 UNITS

GENERAL EDUCATION REQUIREMENTS39 UNITS

STRATEGIES FOR UNIVERSITY SUCCESS3 UNITS

SUS 1010 Strategies for University Success

RESEARCH METHODS3 UNITS

GRM 2000 Introduction to Research Methods

SYMBOLIC SYSTEMS AND INTELLECTUAL SKILLS12 UNITS

Written, Analytical, Critical Thinking Skills6 Units

ENG 1106 Composition I (WI)

ENG 2206 Composition II (WI)

Quantitative and Technological Skills6 Units

IST 1020 Introduction to Information Systems

MTH 1109 College Algebra

LANGUAGE STUDIES6 UNITS

Students must have credit for a foreign language or must take up to a two-course foreign language sequence of one language. USIU-Africa offers courses in Arabic, French, Japanese, Spanish, Swahili and Chinese.

COMMUNITY SERVICE OR COMMUNITY PROJECT3 UNITS

CMS 3700 Community Service

THE SENIOR EXPERIENCE3 UNITS

The Senior Experience is required for each undergraduate degree program.

SEN 4800 Integrated Senior Seminar

GENERAL EDUCATION ELECTIVES9 UNITS

Students are required to pick **2 elective courses (6 Units)** from the other schools. **One of the courses should be an upper level course.** Lower Level courses are coded 1000-2999 while upper level courses are coded 3000 - 4999

The following Chandaria School of Business Lower Elective course is compulsory.

BUS 1010 Introduction to Business Organizations

## **CHANDARIA SCHOOL OF BUSINESS UPPER LEVEL ELECTIVES**

MGT 4030: Cross Cultural Management

BUS 4090: Strategic Management

## **SCHOOL OF HUMANITIES AND SOCIAL SCIENCES LOWER LEVEL ELECTIVES**

PSY 1101: Introduction to Psychology

PHL 1104: Introduction to Philosophy

SOC 2201: Introduction to Sociology

## **UPPER LEVEL ELECTIVES**

GEO 3000: Geography and the Environment

PSY 3135: Psychology of Communication

SOC 3301: Social Problems

PHL 3310: Ethics and Value Theory

SOC 3500: Social Conflict & Resolution

LIT 4815: Oral Literature



## MAJOR

96 UNITS

### LOWER DIVISION CORE COURSES

24 UNITS

APT 1040 Introduction to Web Applications & Design  
MTH 2055 Hardware and Software Practicum  
IST 2010 Computer Organization & Assembly Programming  
APT 1030 Fundamentals of Programming Languages  
IST 1025 Introduction to Programming  
IST 2045 Introduction to Computer Networks  
IST 2060 Data Structures and Algorithms  
MTH 2010 Probability & Statistics

### UPPER DIVISION CORE COURSES

72 UNITS

APT 3050 Introduction to Project Management  
APT 3065 Mid-Term Project  
APT 3080 Management Information Systems  
BUS 3010 Business Law  
BUS 3020 Production and Operations Management  
BUS 4070 Business Values and Ethics  
MGT 3010 Overview of Management Practice  
IST 3005 Application of Social Media for Business  
IST 3015 Business Data Analytics  
IST 3020 Principles of Operating Systems  
IST 3040 Digital Lab  
IST 3050 Introduction to Security Systems  
IST 4020 Systems Analysis and Design  
IST 4030 Database Management Systems  
IST 4035 Advanced Web Design and Applications  
IST 4040 Decision Analysis  
IST 4060 Telecommunications and Networks  
IST 4070 Object-Oriented Programming  
IST 4072 Object-Oriented Analysis and Design  
IST 4075 Mobile Applications Development  
IST 4078 IT Innovation and Entrepreneurship  
IST 4900 Information Technology Project  
IST 4910 Information Systems Internship  
MKT 3010 Principles of Marketing



## CONCENTRATION COURSES

15 UNITS

Information Systems and Technology majors must take Applications, Networking or Forensic Information Technology and Cybercrime as their concentration or area of specialization.

### APPLICATIONS

- APP 4010 Software Engineering
- APP 4020 Design & Development of Cloud Applications
- APP 4035 Web Application Development Frameworks
- APP 4070 System Programming
- APP 4080 Collaborative (Team Work in) Software Development

### NETWORKING

- DST 4010 Distributed Systems
- NET 4020 Network Management and Security
- NET 4030 Internet Architecture and Protocols
- APP 4035 Web Application Development Frameworks
- NET 4050 Sensor Networks and Internet of Things

### FORENSIC INFORMATION AND CYBERCRIME

- FIC 4010 Information System Security
- FIC 4020 Forensic Accounting and Fraud Investigation
- FIC 4030 Information Systems Audit
- FIC 4040 Information Technology and Cybercrime
- FIC 4050 Computer Forensics and Investigation

## CAREER OPTIONS

- Network Administrator
- Information Systems Manager
- Information Systems Developer
- Mobile Applications Developer
- Systems Analyst
- Information Systems Project Manager
- IT Consultant
- Systems Administrator
- Web Applications Developer
- Information Systems Auditor

## CONTACTS

P.O. Box 14634-00800 Nairobi, Kenya  
USIU Road, Off Thika Road (Exit 7)  
Nairobi, Kenya  
Tel: +254-730 116 300/522/518/503/247  
Website: [www.usiu.ac.ke](http://www.usiu.ac.ke)