



# Bachelor of Pharmacy

USIU-Africa is accredited in Kenya by the Commission for University Education (CUE) & the United States of America by WASC Senior College and University Commission respectively.

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**United States  
International  
University-Africa**

Education to take you places

# PROGRAM DESCRIPTION

The USIU-Africa Pharmacy program is designed for students who wish to pursue careers in different pharmacy practice settings, management and research. In particular, both the industrial and hospital arms of our program have been enhanced so as to bring out the best of knowledge, skills, ethics, values, style and success in our graduates.

The program focuses on the development, application and effective management of pharmaceutical technology as a fundamental tool of modern healthcare. This is why USIU-Africa has invested heavily in the best equipped laboratories and library of any pharmacy program in the region.

# LEARNING OUTCOMES

Upon successful completion of the program, the students will be able to:

1. Produce pharmaceutical products utilizing appropriate procedures and standards.
2. Manage a supply chain for pharmaceutical materials and products.
3. Apply regulatory and ethical instruments that govern the practice of pharmacy.
4. Design therapeutic management regimens for patients.
5. Disseminate knowledge on health related issues.
6. Participate in health research.

# DEGREE REQUIREMENTS

350 UNITS

## GENERAL EDUCATION

39 UNITS

### SIGNATURE COURSES

15 UNITS

#### STRATEGIES FOR UNIVERSITY SUCCESS

3 UNITS

SUS 1010 Strategies for University Success

#### RESEARCH METHODS

3 UNITS

GRM 2000 Introduction to Research Methods

#### COMMUNITY SERVICE OR COMMUNITY PROJECT

3 UNITS

CMS 3700 Community Service

#### THE SENIOR EXPERIENCE

3 UNITS

SEN 4800 Integrated Senior Seminar

#### FUNDAMENTALS OF INFORMATION LITERACY

3 UNITS

FIL 1010 Fundamentals of Information Literacy

### LANGUAGE STUDIES

12 UNITS

#### ENGLISH LANGUAGE

6 UNITS

ENG 1106 Composition I (WI)

ENG 2206 Composition II (WI)

#### FOREIGN LANGUAGE

6 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 (ARB1000), French (FRN1000), Japanese (JPN1000), Spanish (SPN1000), Swahili (SWA1000), Chinese (CHI1000) and Kenya Sign Language (KSL1000).

### DISCIPLINARY GENERAL EDUCATION ELECTIVES

6 UNITS

IST 1010 Introduction to Information Systems

MTH 1109 College Algebra

### SCHOOL-BASED GENERAL EDUCATION ELECTIVES

6 UNITS

Students are required to pick 2 electives from the other Schools.

#### SCHOOL OF HUMANITIES AND SOCIAL SCIENCES - LOWER LEVEL ELECTIVES (Choose either)

SOC 1101 Introduction to Sociology

OR

PSY 1101 Introduction to Psychology

#### CHANDARIA SCHOOL OF BUSINESS

ENT 1010 Introduction to Entrepreneurship

**CORE COURSES****311 UNITS****LOWER LEVEL CORE COURSES****114 UNITS**

PHY 1331	Introduction to Medical Physiology (Human Physiology I)	3 Units
ENV 2001	Sustainable Resource Management	3 Units
HAN 1321	Human Anatomy I	4.5 Units
CHE 1305	Inorganic Chemistry I (Basic Inorganic Chemistry)	4.5 Units
BCM 1341	Cellular Biology (Biochemistry I)	3 Units
PHY 1332	Human Physiology II	4.5 Units
NSC 2215	Introduction to Physical Mechanics	3 Units
CHE 1306	Inorganic Chemistry II (Atomic Structure and Chemical Bonding)	3 Units
CHE 2305	Introduction to Organic chemistry	4.5 Units
HAN 1322	Human Anatomy II	4.5 Units
PHY 1333	Human Physiology III	4.5 Units
HAN 1323	Human Anatomy III	4.5 Units
CHE 2307	Physical Chemistry	4.5 Units
CHE 2306	Synthetic Methods in Organic Chemistry	3 Units
BCM 1342	Biochemistry II	4.5 Units
PHM 3401	Introduction to Analytical Chemistry	3 Units
BCM 1343	Biochemistry III (Metabolism and Associated Disorders)	4.5 Units
PHY 2334	Cardiovascular and Renal Physiology	4.5 Units
MIC 2365	Bacteriology	4.5 Units
BCM 2345	Biochemistry V (Enzymology)	3 Units
HSC 2391	Health Economics	3 Units
PAT 3371	General Pathology	3 Units
PHY 2335	Human Physiology V (Endocrine and Reproductive Physiology)	3 Units
BCM 2344	Biochemistry of Specialized Tissue	4.5 Units
MIC 2362	Parasitology and Entomology	4.5 Units
MIC 2366	Virology and Mycology	3 Units
CHE 2304	Chromatographic methods	4.5 Units
PHY 2336	Human Physiology VI	4.5 Units
BCM 2346	Molecular Biology(Biochemistry VI)	3 Units
MIC 2367	Immunopathology	3 Units

**UPPER LEVEL CORE COURSES****197 UNITS**

BCM 3347	Introduction to Pharmaceutical Biotechnology (Biochemistry VII)	3 Units
BOT 3352	Plant Anatomy and Physiology	4.5 Units
CHE 2308	Nuclear chemistry	3 Units
HSC 3492	Law and Ethics in Research	3 Units
PHM 3402	Instrumental Method Analysis	4.5 Units
PHM 3481	Introduction to Clinical Pharmacy (Clinical )	3 Units
PHM 3471	Basic Pharmacology and Toxicology	3 Units
PHM 3411	Introduction to Pharmacy (Pharmaceuticals)	3 Units
BOT 3353	General Plant Biochemistry and Toxicology	3 Units
PAT 3372	Haematology	4.5 Units

PHM 3451	General Pharmacognosy	4.5 Units
PHM 3412	Biopharmaceutics	3 Units
PHM 3404	Drug Discovery and Development	4.5 Units
PHM 3485	Clinical Management of Bacterial and Viral Diseases	3 Units
PHM 3472	Anti-Infective Drugs	3 Units
PHM 3483	Respiratory and Gastrointestinal Disorders	3 Units
PAT 3373	Clinical Chemistry	4.5 Units
PHM 3473	Respiratory and Gastrointestinal Pharmacology	4.5 Units
PHM 3405	Medicinal Chemistry of Pharmacodynamics Drugs	3 Units
PHM 3413	Physical Pharmaceutics	4.5 Units
PHM 3487	Clinical Management of Fungal, Parasitic and Protozoan Diseases	3 Units
PHM 4492	Introduction to Social and Behavioral Pharmacy	3 Units
PHM 4484	Cardiovascular and Renal Disorders	3 Units
PHM 4474	Cardiovascular and Renal Pharmacology	4.5 Units
PHM 4405	Classification, Activities & Assays of Chemotherapeutic Agents	4.5 Units
PHM 4414	Unit Operations	4.5 Units
PHM 4451	Fundamentals of Phytochemistry	4.5 Units
HSC 4493	Research Methods and Biostatistics	3 Units
PHM 4487	Endocrine and Reproductive System Disorders	3 Units
PHM 4475	Endocrine and Reproductive Pharmacology	4.5 Units
PHM 4452	Complementary and Alternative Medicine	3 Units
PHM 4425	Qualitative and Quantitative Analysis of Drugs (Pharmaceutical Analysis I )	4.5 Units
PHM 4415	Powder Technology	3 Units
PHM 4406	Discovery & Development of Chemotherapeutic Agents	3 Units
PHM 4481	Pharmacy Practice Experience 1	3 Units
PHM 4493	Applied Social & Behavioral Pharmacy	3 Units
PHM 4488	Nervous and Musculoskeletal Disorders	3 Units
PHM 4476	Nervous and Musculoskeletal Pharmacology	4.5 Units
PHM 4426	Operations of a Quality Control Laboratory (Pharmaceutical Analysis II)	4.5 Units
PHM 4416	Dispensing and Pharmacy Practice	4.5 Units
PHM 4482	Pharmacy Practice Experience II	3 Units
PHM 5497	Research Proposal	3 Units
PHM 5492	Pharmaceutical Marketing Management	3 Units
PHM 5493	Pharmacy Management	3 Units
PHM 5407	Pharmaceutical Quality Control	3 Units
PHM 5490	Neoplastic Disorders	3 Units
PHM 5477	Cancer, Ocular And Skin Pharmacology	3 Units
PHM 5417	Dosage Forms	4.5 Units
PHM 4483	Pharmacy Practice Experience III	1.5 Units
PHM 5498	Research Project and Thesis	3 Units
PHM 5496	Pharmacy Law & Ethics	3 Units
PHM 5491	Ocular, Ear and Skin Disorders	3 Units
PHM 5478	Veterinary Pharmacology	3 Units
PHM 5418	Pharmaceutical Microbiology	4.5 Units
PHM 5494	Elective Industrial & Hospital Attachment	8 Units

# CAREER OPPORTUNITIES

A Bachelor of Pharmacy opens up a wide range of career opportunities. Here are some potential career paths:

1. Clinical Pharmacist
2. Community Pharmacist
3. Hospital Pharmacist
4. Industrial Pharmacist
5. Regulatory Affairs Specialist
6. Pharmaceutical Research Scientist

# ADMISSION REQUIREMENTS

- KCSE: Mean grade of B- (minus) or its equivalent with a grade of C+ or better in the cluster subjects.
- A Level: A minimum of a principal pass of C or better in Biology and Chemistry and a subsidiary pass (or a credit pass at 'O' level) in Physics or Mathematics.

# CONTACTS

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