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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USIU AFRICA

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
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	3 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 Manangement 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)	6 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 as 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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