

PHARMACY

Admission to Program

Admission to the program is explained in the HCT Admission Policy described in the Academic Policies section of this Catalog.

Program Mission

The mission of the Bachelor of Pharmacy program is to produce graduates, in response to the stakeholders' demand, who are work-ready to operate as Pharmacists in various areas of the technology driven pharmaceutical care, research, education and pharmaceutical industries.

Program Description

The Bachelor of Pharmacy program is a four year post foundations program preparing graduates as Pharmacists for professional practice in different areas of Pharmacy. Graduates are educated to provide quality pharmaceutical care with a patient centered focus.

The program stresses knowledge of the biological, chemical, pharmaceutical, clinical and social sciences that underpins pharmacy, an understanding of the relevance of that knowledge to patient care and pharmaceutical problem solving and the skills to apply that knowledge to specific pharmaceutical care circumstances. The program provides students with a firm foundation for lifelong learning by promoting the development of analytical thinking, problem solving abilities, communication skills, technical skills, intellectual leadership potential and a commitment to professional ethics, social responsibility, professional citizenship and the ability to adapt to changes and respond to challenges in pharmaceutical healthcare delivery.

Graduates of this program will be competent to provide quality pharmaceutical care, current information and products in different areas of pharmacy with a patient centered focus.

Students are eligible for a one year Work Experiential Learning experience during their study.

Program Learning Outcomes

Bachelor of Pharmacy

On successful completion of this program, the graduate will be able to:

1. Apply knowledge, management and decision making aspects to provide quality pharmacy services to meet patients' drug related needs with the objective of achieving optimal patient outcomes and patient safety in clinical and non-clinical settings.
2. Demonstrate a broad and coherent body of knowledge of the major principles of physical-chemical, life, bio- medical, administrative and pharmaceutical sciences to successfully solve problems both in disciplinary and interdisciplinary areas of pharmacy.
3. Demonstrate effective cognitive and technical skills within the framework of evidence-based practice and continuing quality assurance to develop, implement and enhance processes and actions that ensure the safety, accuracy and high standards of pharmaceutical services and supplied products.
4. Demonstrate skills in using relevant advanced technologies, information systems, and communication devices that support quality professional practice routine as well as complex problems in a variety of pharmacy settings.
5. Demonstrate the ability to work independently, as part of or lead a technical team and take responsibility in managing interactions with others in a diverse range of clinical and non-clinical settings. (Technical Leaders).
6. Demonstrate professional attributes relevant to their role as pharmacist in their general as well as specialized field of practice by developing and maintaining professional competence and acquire new knowledge and skills with optimal incorporation of those into pharmacy practice.
7. Apply entrepreneurship and innovation skills to identify and create innovative opportunities and solutions that will strategically navigate the complex demands stemming from pharmacy and the healthcare overall. (Graduating Companies).

Requirements

Completion Requirements

Bachelor of Pharmacy

Students must successfully complete a minimum of 139 credits as follows:

Code	Title	Credit Hours
Health Science Core Courses		24
Pharmacy Core Courses		64
Pharmacy Preceptorship Courses		18
General Studies		33

Total Credit Hours 139

Code	Title	Credit Hours
Health Science Core Courses		
Required Credits: 24		
HSC 1023	Chemistry for Health Sciences	3
HSC 1033	Anatomy and Physiology	3
HSC 1113	Introduction to Healthcare Systems and Professional Practice	3
HSC 1123	Work Health and Safety	3
HSC 1803	Medical Terminology for Health Sciences	3
HSC 4003	Research Methods for Health Sciences	3
HSC 4006	Capstone Research Project for Health Sciences	6

Pharmacy Core Courses

Required Credits: 64

HPH 1503	Introduction to Pharmacy	3
HPH 2003	Biological Organic Chemistry	3
HPH 2016	General Pharmacology	6
HPH 2023	Pharmaceutics I	3
HPH 2113	Systems Pharmacology	3
HPH 2123	Microbiology and Immunology	3
HPH 2133	Pharmaceutics II	3
HPH 2153	Medicinal Chemistry I	3
HPH 3006	Pathophysiology and Therapeutics I	6
HPH 3043	Medicinal Chemistry II	3
HPH 3054	Pharmaceutics III	4
HPH 3133	Clinical Biochemistry and Toxicology	3

HPH 3143	Pharmaceutical Analysis	3
HPH 3163	Pathophysiology and Therapeutics II	3
HPH 4003	Bio-Technology	3
HPH 4013	Complementary Medicine	3
HPH 4033	Pharmaceutical Care Practice Skills	3
HPH 4073	Pathophysiology and Therapeutics III	3
HPH 4103	Pharmacy Law, Ethics and Pharmacoeconomics	3

Pharmacy Preceptorship Courses

Required Credits: 18

HPH 2034	Community Pharmacy Preceptorship	4
HPH 2144	Clinical Pharmacy Preceptorship I	4
HPH 3154	Clinical Pharmacy Preceptorship II	4
HPH 4042	Industrial Pharmacy Preceptorship	2
HPH 4114	Advanced Pharmacy Practice	4

General Studies

Required Credits: 33

English, Arabic or other Languages

Required Credits: 12

Humanities or Art

Required Credits: 3

Information Technology or Mathematics

Required Credits: 6

The Natural Sciences

Required Credits: 3

The Social or Behavioral Sciences

Required Credits: 9

Description	Data
Total Required Credits	139
Maximum Duration of Study	6 years
Minimum Duration of Study	4 years
Cost Recovery Program	No
Program Code	BHPRU
Major Code	HPH

Ideal Study Plan

Recommended Sequence of Study

Year 1

Semester 1		Credit Hours
HSC 1013	Human Biology	3
HSC 1113	Introduction to Healthcare Systems and Professional Practice	3
HSC 1803	Medical Terminology for Health Sciences	3
LSC 1103	Professional Communication and Reporting	3
LSS 1003	Life and Future Skills	3
Credit Hours		15
Semester 2		Credit Hours
AES 1013	Arabic Communications	3
HSC 1023	Chemistry for Health Sciences	3
HSC 1033	Anatomy and Physiology	3
HSC 1123	Work Health and Safety	3
LSS 1123	Basic Research Methods	3
Credit Hours		15

Summer		Credit Hours
HPH 1503	Introduction to Pharmacy	3
AES 1003	Emirati Studies	3
Credit Hours		6

Year 2**Semester 3**

HPH 2003	Biological Organic Chemistry	3
HPH 2016	General Pharmacology	6
HPH 2023	Pharmaceutics I	3
HPH 2034	Community Pharmacy Preceptorship	4
Credit Hours		16

Semester 4

AES 1033	Islamic Culture	3
HPH 2113	Systems Pharmacology	3
HPH 2123	Microbiology and Immunology	3
HPH 2133	Pharmaceutics II	3
HPH 2153	Medicinal Chemistry I	3
Credit Hours		15

Summer

HPH 2144	Clinical Pharmacy Preceptorship I	4
Credit Hours		4

Year 3**Semester 5**

HPH 3006	Pathophysiology and Therapeutics I	6
HPH 3043	Medicinal Chemistry II	3
HPH 3054	Pharmaceutics III	4
LSM 1113	Statistical Mathematics	3
Credit Hours		16

Semester 6

BUS 2403	Innovation and Entrepreneurship	3
HPH 3133	Clinical Biochemistry and Toxicology	3
HPH 3143	Pharmaceutical Analysis	3
HPH 3163	Pathophysiology and Therapeutics II	3
LSC 2223	Future Skills Capstone	3
Credit Hours		15

Summer

HPH 3154	Clinical Pharmacy Preceptorship II	4
Credit Hours		4

Year 4**Semester 7**

HPH 4013	Complementary Medicine	3
HPH 4033	Pharmaceutical Care Practice Skills	3
HPH 4073	Pathophysiology and Therapeutics III	3
HSC 4003	Research Methods for Health Sciences	3
ICT 2013	Computational Thinking and Coding	3
Credit Hours		15

Semester 8

HPH 4003	Bio-Technology	3
HPH 4103	Pharmacy Law, Ethics and Pharmacoeconomics	3
HSC 4006	Capstone Research Project for Health Sciences	6
HPH 4042	Industrial Pharmacy Preceptorship	2
Credit Hours		14

Summer

HPH 4114	Advanced Pharmacy Practice	4
Credit Hours		4

Total Credit Hours 139

Additional courses may be offered in each Summer Semester at the discretion of the Academic Faculty.

Faculty and Academic Staff

Amged Mustafa, Assistant Professor, PhD Pharmacology, Uppsala University, Sweden, 1995

Christianne Rizkalla, Assistant Professor, PhD Pharmaceutical Sciences, Cairo University, Egypt, 2010

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Rajaa Mirgani, Assistant Professor, PhD Pharmacology, Karolinska Institute, Sweden, 2002

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