



# Pharmacy



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## Message from the Dean

The Faculty of Pharmacy at Sinai University is a vibrant community that strives to create unlimited opportunities for its students. We promote the culture of critical thinking, openness and creative discussions between students and their respective Professors. Our multifaceted state-of-the-art educational curriculum is being continuously refined to accommodate the rapid advancement in Pharmaceutical sciences.

Our students engage in an educational process that accumulates essential problem-solving skills over their study time on a well-equipped campus. We also offer advanced laboratories and study rooms that are furnished with reliable equipment, and routinely maintained to ensure that our students are receiving quality education of an international standard. Collectively, the Pharmacy program at Sinai University is a competitive educational package that allows our graduates to stand out amid fierce employment competition in the job market.

When you visit the Faculty of Pharmacy at Sinai University, you will realize that learning, personality development, recreation and social interaction are all intertwined and reside at the very heart of our academic process. We encourage you to consider the Pharmacy program at Sinai University as one of the most promising and rapidly evolving programs that exist on the Egyptian soil.

**Professor Soad H. Abou-El-Ela**

**Dean, Faculty of Pharmacy**



## Vision

To be a first-class academic institute, providing excellence and innovation in teaching, research and service to our immediate community.

## Mission

The Faculty of Pharmacy educates pharmacy practitioners to meet the pharmaceutical care needs of the community. The Faculty is committed to improving human health through the development of new drugs, optimization of drug use, and improvement of pharmaceutical services. It is also committed to advancing pharmaceutical technology to strengthen Egypt economy.

## Why study Pharmacy in Sinai University

Pharmacy program at Sinai University is qualitatively different in many ways. We significantly focus on our society's immediate healthcare needs and tailor our lectures and study workshops in a fashion that meets our society's expectations. Our Pharmacy graduates are significantly able to contribute to the process of managing critical issues that patients in Egypt do encounter on a daily basis, and enrich their patient's lives by offering professional help, hope and compassion.



## Program objectives

- To develop a program that is based on the knowledge and skills necessary to contribute to the healthcare scheme of the country.
- To facilitate the acquisition of knowledge, skills and attitudes by promoting the methods of self-learning and substituting traditional lectures by discussions, debates, seminars and projects.
- To prepare drug specialists and experts that would serve as vital links between physicians and patients, and who will influence the industrial development of drugs and pharmaceuticals.

## Program outcomes

The Pharmacy program at Sinai University creates paradigm shift in the concept of Pharmacy practice in Egypt. We insist on seeding the basics of ethical work practice in our students, and allow them to carve their path to success through learning, making the effort to engage in community service and put that extra effort if they wish to stand out. The type of Pharmacist that we introduce to the community is unique, reliable and restores faith in the mission of Pharmacists and their role in the healthcare system and society at large.

## Career opportunities

Our Pharmacy graduates are able to practice what they have learned in a wide range of career opportunities, such as working in community or hospital pharmacies, pharmaceutical industry, drug development, academic and research centers that are concerned with pharmaceutical sciences.

## Facilities

Our laboratories are equipped with essential tools that facilitate explanation and teaching in an organized environment. We have white boards in all laboratories, projectors, lab-related devices and instrumentation that allow our students to have hands-on experience with the topic at hand. We also have a multitude of research-related equipment that are respectively used in their specific subjects, so students get to learn how to operate and manipulate a wide range of Pharmacy-related equipment.

# Courses





The University offers elective courses from which the students are free to select 10 credits.

Course Code*	Course Title	Credit Hours*			Examination Marks*			Total Marks	Exam Time
		L	P/T	Total	CW	P	F.E.		
SSE E44	English Language (1)	2	-	2	50	-	50	100	2
SSE E45	English Language (2)	2	-	2	50	-	50	100	2
ITC E01	Introduction to Computer Science	2	1	3	35	25	40	100	2
SSG E01	Human rights	1	-	1	50	-	50	100	1
SSG E02	Sinai History	1	-	1	50	-	50	100	1
SSG E03	Scientific Thinking	1	-	1	50	-	50	100	1
SSG E04	Study Skills	2	-	2	50	-	50	100	2
SSG E05	Arabic Language	2	-	2	50	-	50	100	2
SSG E06	Introduction to Future Studies	2	-	2	50	-	50	100	2

Course Code: (e.g. PHC 1101)

1. The first and second Letters represent the faculty offering the course.
2. The third Letter: represents the department offering the course.
3. The first digit represents the level of study (from 1 – 5) or E represents elective course.
4. The second digit represents the semester number (1 or 2).
5. The third and fourth digits represent the course number.

L= lecture, P/T= practical/tutorial, CW= Course work, P= practical, F.E. =Final exam

## Level 1

### Semester (1)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHC 1101	General & Physical chemistry	2	1	3	No Prerequisite	35	25	40	100	2
PHC 1102	Organic Chemistry (1)	2	1	3	No Prerequisite	35	25	40	100	2
PHG 1101	Botany & Medicinal plants	2	1	3	No Prerequisite	35	25	40	100	2
PHT 1101	Pharmacy Orientation & Basic Pharmaceutics	2	-	2	No Prerequisite	50	-	50	100	2
MTH 1101	Mathematics & Statistics	2	-	2	No Prerequisite	50	-	50	100	2
ITC E01	Introduction to Computer Science	2	1	3	No Prerequisite	35	25	40	100	2
SSE E44	English Language (1)	2	-	2	No Prerequisite	50	-	50	100	2
Total		14	4	18						

L= lecture, P/T= practical/tutorial, CW= Course work, F.E. =Final exam

### Semester (2)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHC 1203	Organic Chemistry (2)	2	1	3	PHC 1102 Organic Chemistry (1)	35	25	40	100	2
PHC 1204	Analytical Chemistry	2	1	3	No Prerequisite	35	25	40	100	2
PHT 1202	Physical Pharmacy	2	1	3	PHC 1101 General & physical chemistry	35	25	40	100	2
PHG 1202	Pharmacognosy (1)	2	1	3	PHG 1101 Botany & Medicinal plants	35	25	40	100	2
PHO 1201	Anatomy & Histology	2	1	3	No Prerequisite	35	25	40	100	2
SSE E45	English Language (2)	2	-	2	SSE E44 English Language (1)	50	-	50	100	2
Total		12	5	17						



## Level 2

### Semester (3)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHC 2105	Organic Chemistry (3)	2	1	3	PHC 1203 Organic Chemistry (2)	35	25	40	100	2
PHC 2106	Pharmaceutical Analytical Chemistry	2	1	3	PHC 1204 Analytical Chemistry	35	25	40	100	2
PHG 2103	Pharmacognosy (2)	2	1	3	PHG 1101 Botany & Medicinal plants	35	25	40	100	2
PHT 2103	Pharmaceutics (1)	2	1	3	PHT 1202 Physical Pharmacy	35	25	40	100	2
PHO 2102	Physiology	2	1	3	PHO 1201 Anatomy & Histology	35	25	40	100	2
SSG E03	Scientific Thinking	1	-	1	No Prerequisite	50	-	50	100	1
SSG E01	Human rights	1	-	1	No Prerequisite	50	-	50	100	1
Total		12	5	17						

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### Semester (4)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHT 2204	Pharmaceutics (2)	2	1	3	PHT 1202 Physical Pharmacy	35	25	40	100	2
PHM 2201	Microbiology	2	1	3	No Prerequisite	35	25	40	100	2
PHM 2202	Parasitology	2	1	3	No Prerequisite	35	25	40	100	2
PHM 2203	Pathology	2	1	3	PHO 2102 Physiology	35	25	40	100	2
PHO 3103	Pathophysiology	2	-	2	PHO 2102 Physiology	50	-	50	100	2
PHG 2204	Phytochemistry	2	1	3	PHG 1202 Pharmacognosy (1) PHG 2103 Pharmacognosy (2)	35	25	40	100	2
Total		12	5	17						



## Level 3

### Semester (5)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHB 3101	Biochemistry (1)	2	1	3	PHC 2105 Organic Chemistry (3)	35	25	40	100	2
PHM 3104	Pharmaceutical Microbiology	2	1	3	PHM 2201 Microbiology	35	25	40	100	2
PHP 2201	Pharmacy Administration	2	-	2	No Prerequisite	50	-	50	100	2
PHO 3104	Pharmacology (1)	2	1	3	PHO 3103 Pathophysiology	35	25	40	100	2
PHT 3105	Pharmaceutics (3)	2	1	3	PHT 1202 Physical Pharmacy	35	25	40	100	2
SSG E07	Psychology & Communication Skill	1	-	1	No Prerequisite	50	-	50	100	1
PHG 3105	Production and Manufacture of Medicinal Plants	2	-	2	PHG 2204 Phytochemistry	50	-	50	100	2
SSG E02	Sinai History	1	-	1	No Prerequisite	50	-	50	100	2
<b>Total</b>		<b>14</b>	<b>4</b>	<b>18</b>						

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### Semester (6)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHB 3202	Biochemistry (2)	2	1	3	PHB 3101 Biochemistry (1)	35	25	40	100	2
PHC 3207	Pharmaceutical Chemistry (1)	2	1	3	PHC 2105 Organic Chemistry (3) PHC 2106 pharmaceutical analytical chemistry	35	25	40	100	2
PHO 3205	Pharmacology (2)	2	1	3	PHO 3104 Pharmacology (1)	35	25	40	100	2
PHT 3206	Pharmaceutics (4)	2	1	3	PHT 1202 Physical Pharmacy	35	25	40	100	2
PHG 3206	Chromatography and Separation Techniques	2	1	3	PHC 2106 Pharmaceutical Analytical Chemistry	35	25	40	100	2
PHP 3202	Pharmaceutical Marketing	2	-	2	No Prerequisite	50	-	50	100	2
<b>Total</b>		<b>12</b>	<b>5</b>	<b>17</b>						



## Level 4

### Semester (7)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHB 4103	Clinical Biochemistry	2	1	3	PHB 3202 Biochemistry (2)	35	25	40	100	2
PHO 4106	Pharmacology (3)	2	1	3	PHO 3104 Pharmacology (1)	35	25	40	100	2
PHC 4108	Pharmaceutical chemistry (2)	2	1	3	PHC 2105 Organic Chemistry (3) PHC 2106 pharmaceutical analytical chemistry	35	25	40	100	2
PHT 4107	Design of Dosage forms & Quality Assurance	2	1	3	PHT 2103 Pharmaceutics (1) PHT 2204 Pharmaceutics (2) PHT 3105 Pharmaceutics (3) PHT 3206 Pharmaceutics (4)	35	25	40	100	2
PHT 4108	Biopharmaceutics & pharmacokinetics	2	1	3	PHO 2102 Physiology PHT 2103 Pharmaceutics (1) PHT 2204 Pharmaceutics (2) PHT 3105 Pharmaceutics (3) PHT 3206 Pharmaceutics (4)	35	25	40	100	2
PHP 4103	Therapeutics (1)	2	1	3	PHO 3205 Pharmacology (2) COREQUISITE: PHO 4106 Pharmacology (3) PHM 2202 Parasitology PHM 2203 Pathology	35	25	40	100	2
<b>Total</b>		<b>12</b>	<b>6</b>	<b>18</b>						

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## Semester (8)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHP 4204	Therapeutics (2)	2	1	3	PHP 4103 Therapeutics (1)	35	25	40	100	2
PHO 4207	Toxicology & forensic Chemistry	2	1	3	PHO 3205 Pharmacology (2) PHO 4106 Pharmacology (3)	35	25	40	100	2
PHM 4205	Medical Microbiology and Immunology	2	1	3	PHM 2201 Microbiology	35	25	40	100	2
PHT 4209	Hospital Pharmacy	2	-	2	PHT 2103 Pharmaceutics (1) PHT 2204 Pharmaceutics (2) PHT 3105 Pharmaceutics (3) PHT 3206 Pharmaceutics (4)	50	-	50	100	2
PHB 4204	Nutrition	1	-	1	PHB 3202 Biochemistry (2)	50	-	50	100	1
PHC 4209	Instrumental Analysis	2	1	3	PHC 2106 Pharmaceutical Analytical Chemistry PHC 2105 Organic Chemistry (3)	35	25	40	100	2
	Elective	2		2		50	-	50	100	2
Total		13	4	17						



## Semester (9)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHP 5105	Clinical Pharmacy (1)	2	1	3	PHP 4103 Therapeutics (1)	35	25	40	100	2
PHO 5108	Biological screening and Bioassay	2	1	3	PHO 3205 Pharmacology (2) PHO 4106 Pharmacology (3)	35	25	40	100	2
PHC 5110	Pharmaceutical Quality Control	2	1	3	PHC 4209 Instrumental Analysis	35	25	40	100	2
PHC 5111	Drug Design	2	-	2	PHC 3207 Pharmaceutical chemistry (1) PHC 4108 Pharmaceutical Chemistry (2)	50	-	50	100	2
PHT 5110	Industrial Pharmacy (1)	2	1	3	PHT 2103 Pharmaceutics (1) PHT 2204 Pharmaceutics (2) PHT 3105 Pharmaceutics (3) PHT 3206 Pharmaceutics (4)	35	25	40	100	2
PHM 5106	Introduction to Biotechnology	1	-	1	PHM 2201 Microbiology	50	-	50	100	1
	Elective	2	-	2		50	-	50	100	2
Total		13	4	17						

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## Semester (10)

Course code	Course Title	Credit hours			Prerequisite	Examination Marks*			Total marks	Exam Time (hrs)
		L	P/T	Total		CW	P/T	F.E		
PHP 5206	Clinical Pharmacy (2)	2	1	3	PHP 4103 Therapeutics (1)	35	25	40	100	2
PHT 5211	Industrial Pharmacy (2)	2	1	3	PHT 5110 Industrial Pharmacy (1)	35	25	40	100	2
PHP 5207	Drug information	2	-	2	PHO 4207 Toxicology & forensic Chemistry	50	-	50	100	2
PHM 5207	Public Health	2	-	2	PHM 4205 Medical Microbiology and Immunology	50	-	50	100	2
PHO 5209	First Aid	1	-	1	PHO 3205 Pharmacology (2) PHO 4106 Pharmacology (3)	50	-	50	100	2
PHP 5208	Community Pharmacy	2	1	3	PHO 3205 Pharmacology (2) PHO 4106 Pharmacology (3)	35	25	40	100	2
PHP 5209	Pharmaceutical Ethics and Legislation	1	-	1	No Prerequisite	50	-	50	100	1
	Elective	2	-	2		50	-	50	100	2
<b>Total</b>		<b>14</b>	<b>3</b>	<b>17</b>						



## Elective Courses

The faculty of Pharmacy offers elective courses from which the students are free to select six credits.

Course Code	Course Title	Credit Hours			Prerequisite
		L	P/T	Total	
PHC E13	Advanced Instrumental Analysis	2	-	2	PHC 4209 Instrumental Analysis
PHC E14	Computer Aided Drug Design	2	-	2	PHC5111 Drug Design
PHG E09	Natural Products	2	-	2	PHG 2204 Phytochemistry
PHG E10	Alternative Medicinal Therapies	2	-	2	PHG 2204 Phytochemistry
PHG E11	Quality control of Herbal Drugs	2	-	2	PHG 2204 Phytochemistry
PHT E13	Radiopharmaceuticals	2	-	2	PHC1101 General & Physical chemistry PHO3205 Pharmacology (2)
PHT E14	Applied Industrial Pharmacy	2	-	2	PHT 5211 Industrial Pharmacy (2)
PHT E15	Cosmetic Preparations	2	-	2	PHT 2204 Pharmaceutics (2)
PHT E16	Advanced Pharmaceutics	2	-	2	PHT2103 Pharmaceutics (1) PHT2204 Pharmaceutics (2) PHT3105 Pharmaceutics (3) PHT 3206 Pharmaceutics (4)
PHM E08	Antimicrobial Agents	2	-	2	PHM 4203 Medical Microbiology & immunology
PHM E09	Biological Standardization	2	-	2	PHM 3102 Pharmaceutical Microbiology
PHM E10	Bioinformatics	2	-	2	PHB 3202 Biochemistry (2) PHM4203 Medical Microbiology & Immunology
PHO E11	Veterinary Pharmacology	2	-	2	PHO 4106 Pharmacology (3)
PHO E12	Clinical Toxicology	2	-	2	PHO 4208 Toxicology & forensic chemistry
PHO E13	Drug Abuse	2	-	2	PHO 4106 Pharmacology (3)

## Departments:

Department of Pharmaceutical Chemistry.

Department of Pharmaceutics.

Department of Pharmacology and Toxicology.

Department of Pharmacognosy.

Department of Microbiology and Immunology.

Department of Pharmacy Practice.

Department of Biochemistry.

**SU** ARISH  
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**YOUR LIFE...  
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# SU ARISH

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