

Hebron University
Faculty of Pharmacy and Medical Sciences
Department of Pharmacy
Curriculum of BSc in Pharmacy 2014
172 Credit Hours

First Year
First Semester

Course No.	Course Name	Credit Hours	Pre requisite
22100	University Requirement English Language	3	
41101	Calculus (1)	3	
42104	General Physics	3	
43104	General Chemistry	3	
43108	General Chemistry Lab	1	+43104
44101	General Biology (1)	3	
44105	General Biology Lab (1)	1	+44101
Total Credit Hour		17	

First Year
Second Semester

Course No.	Course Name	Credit Hours	Pre requisite
44102	General Biology (2)	3	44101
45100	University Requirement (Computer Applications)	3	
81111	Organic Chemistry	3	43104
81113	Organic Chemistry Lab	1	+81111 43108
83102	Biostatistics	3	
83103	Introduction to Medical Concepts Pharmacy Elective	2	22100
Total Credit Hour		15	

Summer Semester
University Requirements:

(6 Cr. Hrs)

**Second Year
First Semester**

Course No.	Course Name	Credit Hours	Pre requisite
-----	University Requirement	3	
81212	Pharmaceutical Organic Chemistry	3	81111
81214	Pharmaceutical Organic Chemistry Lab	1	+81212 81113
83211	Biochemistry (1)	2	44102 81111
84211	Physiology (1)	2	44102
84221	Anatomy	2	44102
84222	Anatomy and Physiology Lab	1	+84221 +84211 44105
82111	Physiochemical Principles of Pharmacy	2	43104
84271	First Aid and Public Health	2	
Total Credit Hour		18	

**Second Year
Second Semester**

Course No.	Course Name	Credit Hours	Pre requisite
-----	University Requirement	3	
45200	Computer Science For Medical Technology	3	45100
81221	Analytical Chemistry	3	43104
81222	Analytical Chemistry Lab	1	+81221 43108
82212	Physical Pharmacy	2	82111
82213	Physical Pharmacy Lab	1	+82212
83212	Biochemistry (2)	3	83211
83213	Biochemistry (1) Lab	1	+83211 44105
84212	Physiology (2)	2	84211
Total Credit Hour		19	

Summer Semester

University Requirements (6 Cr.Hrs)

**Third Year
First Semester**

Course No.	Course Name	Credit Hours	Pre requisite
81351	Medicinal Chemistry (1)	3	81212 +84341
82231	Pharmaceutical Calculations and Compounding (1)	3	82111
83231	Pharmaceutical Microbiology (1)	3	44102
83321	Pharmacognosy	2	--
83322	Pharmacognosy Lab	1	+83321
84213	Immunology	2	44102
84331	Pathology for Pharmacy	2	84221 84212
84341	Pharmacology (1)	3	84212
Total Credit Hour		19	

**Third Year
Second Semester**

Course No	Course Name	Credit Hours	Pre requisite
81341	Phytochemistry	3	81212 83321
81342	Phytochemistry Lab	1	+81341 81222 83322
81352	Medicinal Chemistry (2)	2	81351
82232	Pharmaceutical Calculations and Compounding (2)	3	82231
82233	Pharmaceutical Calculations and Compounding Lab	1	+82232
83332	Pharmaceutical Microbiology (2)	2	83231
83333	Pharmaceutical Microbiology Lab	1	+83332
84332	Pathophysiology for Pharmacy	2	84331
84342	Pharmacology(2)	3	84341
Total Credit Hour		18	

Summer Semester

Course No	Course Name	Financial Hours	Practical hours	Pre requisite
80301	Pharmaceutical Training (1)	1*	360	84342**

*Financial hour

** Success is mandatory

Students training should be at a community and/or a hospital pharmacy and/or a pharmaceutical company. The total training is 720 practical hrs which are divided into two periods each one includes 360 practical hrs after the 3rd and the 4th Year.

Also, students can have their training during semester time of the 4th and 5th years.

During this training all students will be supervised and evaluated according to the regulations of the Faculty of Pharmacy and Medical Sciences.

This is a none credited course.

Fourth Year First Semester

Course No	Course Name	Credit Hours	Pre requisite
81354	Medicinal Chemistry Lab	1	+81352, 81214
81453	Medicinal Chemistry (3)	3	81352
82321	Pharmaceutical Technology (1)	2	82232
82322	Pharmaceutical Technology (1)Lab	1	+82321 82233
83301	Nutrition	2	
84372	Pharmacoeconomics	2	--
84443	Pharmacology (3)	2	84342
84451	Therapeutics (1)	3	+84443
84461	Biopharmaceutics	2	82111
Total Credit Hour		18	

Fourth Year Second Semester

Course No	Course Name	Credit Hours	Pre requisite
-----	Pharmacy Elective	2	-----
81331	Instrumental Analysis	3	81221
81332	Instrumental Analysis Lab	1	+81331 81222
82423	Pharmaceutical Technology (2)	2	82321
82424	Pharmaceutical Technology (2) Lab	1	+82423 82322
84452	Therapeutics (2)	3	84451
84462	Pharmacokinetics	2	+84461
84463	Case Studies in Pharmacokinetics	1	+84462
Total Credit Hour		15	

Summer Semester

Course No	Course Title	Financial Hours	Practical hours	Pre requisite
80402	Pharmaceutical training (2)	1*	360	**80301

*Financial hour

** Success is mandatory

Students training should be at a community and/or a hospital pharmacy and/or a pharmaceutical company. The total training is 720 practical hrs which are divided into two periods each one includes 360 practical hrs after the 3rd and the 4th Year. Also, students can have their training during semester time of the 4th and 5th years.

During this training all students will be supervised and evaluated according to the regulations of the Faculty of Pharmacy and Medical Sciences

This is a none credited course.

**Fifth Year
First Semester**

Course No	Course Name	Credit Hours	Pre requisite
--	Pharmacy Elective	2	
81461	Research in Pharmaceutical sciences	3	83102
83414	Pharmaceutical Clinical Biochemistry	2	84332 83212
84373	Pharmaceutical Promotion and Marketing (1)	2	84372
84481	Toxicology	2	84342
Total Credit Hour		11	

**Fifth Year
Second Semester**

Course No	Course Name	Credit Hours	Pre requisite
--	Pharmacy Elective	2	
--	Pharmacy Elective	2	
--	Pharmacy Elective	2	
84546	Nonprescription Drugs	2	84443
84575	Pharmacy Regulations and Ethics	2	--
Total Credit Hour		10	

Elective Courses (12 Cr.H)

I. Pharmaceutical Practice Courses			
Course No.	Course Name	Prerequisite	Credit Hours
83103	Introduction to Medical Concepts	22100	2
84276	History of Pharmacy and Medicine	----	2
84356	Pharmacy Practice and Communication Skills	----	2
84377	Ethics of Medical Professions	----	2
84455	Pharmaceutical Care	----	2
84474	Pharmaceutical Promotion and Marketing (2)	84373	2

* Each student should select topics from all elective groups in order to accomplish his/her 12 hrs

II. Advanced Courses in Pharmaceutical Technology and Biotechnology			
Course No.	Course Name	Prerequisite	Credit Hours
81433	Applied Chromatography	81331	2
81445	Research in Medicinal Plants	81461,81341	2
82441	Cosmetics Science	82231	2
82442	Pharmaceutical Excipients	82231	2
82443	Pharmaceutical Radioisotopes	81351	2
82444	Pharmaceutical Sterilization	82423	2
82445	Research in Drug Delivery	82424, 82423, 81461	2
83415	Pharmaceutical Biotechnology	83212	2

III. Advanced Courses in Pharmacology, Pathology and Toxicology			
Course No.	Course Name	Prerequisite	Credit Hours
81462	Research in Cancer	81352, 81461	2
83423	Poisonous and Hallucinogenic Plants	84342	2
84433	Infectious Diseases	83332	2
84447	Veterinary Medical Products	----	2
84453	Advanced Topics In Clinical Pharmacy	84452	2
84454	Alternative Medicine	----	2
84457	Drugs in Pregnancy and Lactation	84342	2

84458	Research in Clinical Pharmacy	84452 81461	2
84482	Environmental Toxicology	84481	2
84483	Research in Toxicology	84481, 81461	2