

Hebron University
Faculty of Pharmacy and Medical Sciences
Department of Medical Laboratory Sciences
Curriculum of B.Sc. in Medical Laboratory Sciences 2022
Credit Hour 140 Cr.hr

First Year – First semester

Course No.	Course Name	Cr. Hr	Prerequisite
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 (1) Lab	1	+44101
Total Credit Hour		17	

First Year – Second semester

Course No.	Course Name	Cr. Hr	Prerequisite
T1100	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	2	22100
85111	Cell Biology	2	44101
85112	Cell Biology Lab	1	44105, +85111
Total Credit Hour		15	

Summer Semester

Course No.	Course Name	Cr .Hr	Prerequisite
	University Requirement	3	
	University Requirement	3	
Total Credit Hour		6	

Second Year-First semester

Course No.	Course Name	Cr. Hr	Prerequisite
84223	Anatomy and Physiology (1)	2	44101
84222	Anatomy and Physiology Lab	1	44105+ 84223
85231	Microbiology	3	85111, 81111
85232	Microbiology Lab	1	85112, +85231
85213	Histology	2	85111
85214	Histology Lab	1	85112, +85213
85221	General Biochemistry	4	81111, 85111
85222	General Biochemistry Lab	1	85112, 81113, +85221
84272	First aid and Public Health	1	
Total Credit Hour		16	

Second Year-Second Semester

Course No.	Course Name	Cr.Hr	Prerequisite
T1200	Computer science for medical technology	3	T1100
84224	Anatomy and Physiology (2)	2	84223
81221	Analytical Chemistry	3	43104
81222	Analytical Chemistry Lab	1	+81221 43108
85247	Immunology and Serology	3	84223, 85221
85248	Immunology and Serology Lab	1	+85247
85233	Parasitology	3	85231
85234	Parasitology Lab	1	85232, +85233
Total Credit Hour		17	

Summer Semester

Course No.	Course Name	Credit Hours	Prerequisite
	اختياري جامعة Elective Course	3	
	University Requirement	3	
Total Credit Hour		6	

Third Year- First year

Course No.	Course Name	Cr. Hr	Prerequisite
85354	Hematology and Coagulation	4	84224
85355	Hematology and coagulation Lab.	1	84222,+85354
85327	Metabolism	2	85221
85315	Endocrinology	3	84224+85221
85335	Medical Microbiology and Virology	4	85231
85336	Medical Microbiology and Virology Lab	1	85335+ 85232 +
61200	Entrepreneurship and Innovation	2	
Total Credit Hour		17	

Third Year-Second semester

Course No.	Course Name	Cr. Hr.	Prerequisite
	اختياري جامعة Elective Course	3	
	اختياري تخصص Elective	3	
85323	Molecular Biology and Human Genetics	3	85111, 85221
85324	Molecular Biology and Human Genetics Lab	1	+85323, 85222
85325	Clinical Biochemistry	3	85327
85326	Clinical Biochemistry Lab	1	85222, +85325
85343	Blood Bank	2	85354
85344	Blood Bank Lab	1	85355, +85343
Total Credit Hour		17	

Summer Semester

Course No.	Course Name	Credit Hours	Prerequisite
---	اختياري تخصص Elective	3	
61300	University Requirement Career Readiness and Employability Skills	2	-
Total Credit Hour		5	

Fourth Year-First year

Course No.	Course Name	Cr. Hr	Prerequisite
	اختياري تخصص Elective	3	
84377	Ethics of Medical Professions	2	
85338	Medical Mycology	2	85231
85339	Medical Mycology Lab	1	+85338, 85232
85446	Body Fluids	3	85325
85447	Body fluids lab	1	85326, +85446
85337	Diagnostic Microbiology	2	85335
85465	Research in Medical Lab Sciences	2	موافقة القسم 83102
Total Credit Hour		16	

Fourth Year- Second year

Course No.	Course Name	Credit Hours	Prerequisite
85363	Field Training (1)	3	موافقة القسم
85464	Field Training (2)	3	موافقة القسم
85361	Quality Assurance in Laboratory Analysis and Laboratory Management	2	85325 85326
Total Credit Hour		8	

Speciality Elective Requirements (9 Cr. H.)

Course Name	متطلب سابق Prerequisite	ساعة معمدة Credit Hours	اسم المساق	رقم المساق Course No.
Embryology	85111	3	علم أجنة	85216
Nutrition	85221	3	تغذية	83301
Microtechnique	85213 85214	3	تحضير مجهري	85245
Tissue Culture	85213	2	زراعة أنسجة	85317
Tissue Culture Lab	85214 85317+	1	مختبر زراعة أنسجة	85318
Biomedical Engineering	85323	3	هندسة طبية حيوية	85348
Pathology	84224	3	علم أمراض	84331
Pharmacology	84224 85231	3	علم أدوية	85352
Bioinformatics	85323 T1200	3	حوسبة معلومات بيولوجية	85365
Introduction to Epidemiology	83102	3	مقدمة في علم الأوبئة	85366
Industrial Microbiology	85337	2	علم الاحياء الدقيقة الصناعي	85440
Industrial Microbiology Lab	85440	1	مختبر علم الاحياء الدقيقة الصناعي	85441
Medical Genetics	85323	3	علم الجينات الطبية	85453
Special Medical Topics	---	3	مواضيع خاصة طبية	85455