



American University of Iraq, Sulaimani

BSc. In Medical Laboratory Science Program
Degree Progress Guide (Fall 2022 - Onwards)



Below is the natural sequence of MLS program courses designed for students to register per semester. Other degree requirements and comprehensive details are to be found in the AUIS Academic Catalog.

Course Code and Description	Credits	Prerequisite(s)	✓
1st Semester			
CSC 101 - Computer Science and IT Applications (Core)	3	none	
ENG 101 - Argument (Core)	3	none	
BIO 102 + BIOL102 - General Biology I + Lab (Major)	4	none	
CHEM 232 + CHEML 232 - Chemistry I + Lab (Major)	4	none	
CIV 101 - Civilization I: The Ancient World (History) (Core)	3	none	
Total Credits	14		
2nd Semester			
ENG 102 - Critical Reading (Core)	3	ENG 101	
MTH 133 - Precalculus (Core)	3	None	
BIO 203 + BIOL 203 - Biology II + Lab (Major)	4	BIO/L 102	
CHEM 233 + CHEML 233 - Chemistry II + Lab (Major)	4	CHEM/L 232	
Total Credits	17		
3rd Semester			
ENG 203 - Research & Project-Writing (Core)	3	ENG 102	
CIV 203 - Civilization II: Ancient World (Humanities) (Core)	3	30 Earned Credits	
STT 201 - Statistics (Core)	3	MTH 133	
PHYS 224 + PHYSL 224 - Physics for Life Science + Lab (Major)	4	none	
HSCI 201 - Clinical Laboratory Science Methods & Techniques (Major)	2	MLS major declaration	
Total Credits	15		
4th Semester			
CIV 204 - Civilization III: The Modern World (Humanities) (Core)	3	CIV 203	
General Education Credits (Social Science/Humanities) Core	3	none	
CHEM 241 - Organic Chemistry + Lab (Major)	4	CHEM/L 233	
BIO 231 - Human Anatomy + Lab (Major)	4	BIO/L 203	
Total Credits	14		
5th Semester			
CHEM 351 - Biochemistry + Lab (Major)	4	BIO/L 203 & CHEM 241	
BIO 351 - Microbiology + Lab (Major)	4	BIO/L 203 & CHEM/L 233	
BIO 341 - Human Physiology + Lab (Major)	4	BIO/L 203, CHEM/L 233, and PHYS/L 224	
BIOE 301 - Bioethics (Major)	2	BIO/L 203	
Total Credits	14		
6th Semester			
BIO 362 - Genetics & Molecular Biology + Lab (Major)	4	STT 201, BIO/L 203, CHEM 241	
MEDS 322 - Medical Microbiology + Lab (Major)	4	HSCI 201, BIO 351	
MEDS 332 - Medical Immunology + Lab (Major)	4	HSCI 201, BIO 341, BIO 351	
MEDS 342 - Medical Hematology + Lab (Major)	4	HSCI 201, CHEM 241, BIO 341	
Total Credits	16		
7th Semester			
MEDS 401 - MLS Operations (Major)	2	HSCI 201, BIOE 301	

HSCI 411 - Public Health (Major)	3	BIOE 301, MEDS 322	
MEDS 422 - Clinical Chemistry (Major)	3	BIOE 301, BIO 362, CHEM 351, MEDS 332	
Medical Labrotory Management (Major)	3	MLS Senior Status	
CLP 411 - Clinical Labrotroy Rotation I (Major)	6	BIOE 301, BIO 362, CHEM 351, MEDS 332	
Total Credits	17		
8th Semester			
MEDS 421 - Medical Parasitology (Major)	2	MEDS 322, MEDS 332, HSCI 411	
MEDS 423 - Clinical Body Fluid Analysis (Major)	2	MEDS 322, MEDS 401, MEDS 422	
MEDS 445 - Transfusion Medicine (Major)	3	MEDS 332, MEDS 342, CLP 411	
CLP 442 - Clinical Labratory Rotation II (Major)	6	MEDS 332, MEDS 342, CLP 411	
MEDS 450 - MLS Capstone Project (Major)	3	CLP 411	
Total Credits	16		

Program Credits	
Core	30 credits
Major	93 credits
Total	123 credits

General Tips and Recommendations

Varied Degree Paths:
 Student degree paths may vary slightly from this form. If academic record differs from the courses listed in this form, please contact the Registration and Records Office during the advising week for clarification. Independent study, transfer credits or other unique circumstances are typically accounted for in the elective category.