

Medical Laboratory Technician

Semester Course Outline • 2024 – 2025

20 Months (4 Semesters, 1 Summer Session) • Revised: 5/6/24

Associate of Applied Science (A.A.S.) Degree • Credits Required for Graduation: 72.5



First Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
MLT 101	Introduction to Medical Laboratory	56	2
MLT 105	Urinalysis and Body Fluids	98	3.5
MLT 135	Principles of Phlebotomy	56	2
MA 115	Medical Terminology	45	3
BIOL 221	Human Anatomy *	90	4
CHEM 106	Inorganic Chemistry Lecture	45	3
CHEM 106L	Inorganic Chemistry Lab	45	1
Total		435	18.5

First Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
MLT 116	Hematology I	56	2
MLT 118	Clinical Microbiology I	84	3
MLT 201	Immunology	112	4
MLT 205	Applied Phlebotomy	28	1
MICRO 231	General Microbiology *	90	4
• ECON 105 or SOC 100	Leadership in the Global Workplace or Introduction to Sociology *	45	3
Total		415	17

First Year – Summer Session

Course Number	Course Title	Clock Hours	Credits
CSC 100	Computer Concepts	15	1
PSYC 101	General Psychology *	45	3
• CMST 101 or ENGL 101	Foundations of Communication * or Composition *	45	3
Total		105	7



Second Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
MLT 125	Seminar	14	.5
MLT 212	Hematology II	84	3
MLT 215	Clinical Chemistry	112	4
MLT 217	Clinical Microbiology II	56	2
MLT 221	Immunochemistry (Blood Banking)	112	4
CSS 100	Career Search Strategies	8	.5
• MATH 101 or MATH 114	Intermediate Algebra or College Algebra *	45	3
Total		431	17

Second Year – Spring Semester (Clinical Practicum)

Course Number	Course Title	Clock Hours	Credits
MLT 226	Practicum I: General Lab Practice, Phlebotomy, Hematology, Chemistry, Urinalysis (9 weeks)	360	6
MLT 231	Practicum II: Microbiology, Immunology, and Immunochemistry (9 weeks) (Includes Sim Lab on campus for 3 weeks)	360	6
MLT 236	Practicum Correlation	15	1
Total		735	13

NOTE: Hematology I and Clinical Microbiology I have to be completed before students can be registered for Hematology II and Clinical Microbiology II.

NOTE: Clinical Practicum I, II, and Practicum Correlation will be taken when all previous course work (including generals) have been completed.

- Students will select a course in each of the areas listed to meet general education requirements. Courses marked with an asterisk (*) can be transferred directly to the university system.