

Eastern Kentucky University
Medical Laboratory Science (MLS) Department

FIRST YEAR (Pre-MLS)

First Semester (Fall)

HSO 100	Freshmen Orientation (U)	1
ENG 101	English Composition (E-1A)	3
MAT 114	College Algebra (S)	3
CHE 111	General Chemistry I (S)	3
CHE 111L	General Chemistry Lab I (S)	1
--- ---	GEN Education (E- 3, 5 or 6)	3
--- ---	Free Elective	2

Total Hours 14/16

Second Semester (Spring)

ENG 102	English Composition (E-1B)	3
CHE 112	General Chemistry II (S)	3
CHE 112L	General Chemistry Lab II (S)	1
MLS 201	Intro to Medical Lab Science (S)	3
HSA 200	Medical Terminology (S)	3
--- ---	GEN Education (E- 3, 5 or 6)	3

Total Hours 16

SECOND YEAR (Pre-MLS)

Third Semester (Fall)

BIO 111	Cell & Molecular Biology (S)	4
MLS 290	Medical Biochemistry (S)#	3
--- ---	Oral Communication (E-1C)	3
--- ---	GEN Education (E- 3, 5 or 6)	3
--- ---	Free Elective	2

Total Hours 15

Fourth Semester (Spring)

BIO 308	Human Anatomy and Physiology II	3
MLS 209	Microbiology for Health Sciences (S)#	3
MLS 211	Medical Microbiology Laboratory (S)	1
--- ---	GEN Education (E- 3, 5 or 6)	3
--- ---	Free Elective	5

Total Hours 15

SUMMER (Pre-MLS)

MLS 209	Microbiology for Health Sciences (S)#	3
MLS 290	Medical Biochemistry (S)#	3

THIRD YEAR (Upper Division MLS)

Fifth Semester (Fall)

MLS 300	Laboratory Administration	2
MLS 303	Clinical Laboratory Skills†	1
MLS 308	Serology & Molecular Techniques	2
MLS 309	Clinical Immunology†	1
MLS 310	Hematology and Coagulation	5
MLS 350	Bacteriology	5

Total Hours 14/16

Sixth Semester (Spring)

MLS 303	Clinical Laboratory Skills†	1
MLS 305	Analysis of Body Fluids	2
MLS 309	Clinical Immunology†	1
MLS 320	Immunohematology	3
MLS 346	Clinical Chemistry	5
MLS 355	Mycology, Parasitology, and Virology	4

Total Hours 14/16

FOURTH YEAR (Upper Division MLS)

Summer Session

MLS 431	Clinical Correlations	3
MLS 438	Hematology Pract.	4

Total Hours 7

Practicum (5 months)

MLS 432	Clinical Chemistry Pract.	5
MLS 434	Clinical Microbiology Pract.	4
MLS 436	Lab Mgmt and Education	1
MLS 437	Clinical Laboratory Seminar	3
MLS 439	Urinalysis Pract.	1
MLS 440	Blood Bank Pract.	2
MLS 441	Immunology Pract.	1

Total Hours 17

TOTAL CREDIT HOURS FOR DEGREE = 120 HOURS. The 27 hours of general education requirements should include the following areas: Element 1A (3), 1B (3), 1C (3), 3A (3), 3B (3), 5 (6), and 6 (6). The number in parenthesis is the credit hours for the course. University requirements are listed with a (U) and supporting courses are listed with (S) after the course description. # **MLS 290** can be taken in fourth semester or in the summer; # **MLS 209** can be taken in sixth semester or in the summer; † **MLS 303** and **MLS 309** are only taken once in the fifth or sixth semester.