

**EASTERN KENTUCKY UNIVERSITY**  
**MEDICAL LABORATORY SCIENCE (PRE-MLS AND UPPER DIVISION)**

**FIRST YEAR (Pre-MLS)**

<u>First Semester (Fall)</u>			<u>Second Semester (Spring)</u>		
HSO 100	Freshmen Orientation (U)	1	ENG 102	English Composition (E-1B)	3
CHE 111	General Chemistry I (S)	3	CHE 112	General Chemistry II (S)	3
CHE 111L	General Chemistry Lab I (S)	1	CHE 112L	General Chemistry Lab II (S)	1
ENG 101	English Composition (E-1A)	3	MLS 201	Intro to Clinical Pathology*	3
MAT 114	College Algebra (S)	3	---	Free Elective .....	2
---	GEN Education (E- 3, 5 or 6)	6	---	GEN Education (E- 3, 5 or 6)	6
<b>Total Hours</b>			<b>Total Hours</b>		
<b>17</b>			<b>15/18</b>		

**SECOND YEAR (Pre-MLS)**

<u>Third Semester (Fall)</u>			<u>Fourth Semester (Spring)</u>		
MLS 290	Medical Biochemistry (S)#	3	BIO 301	Human Physiology (S)	3
MLS 201	Intro to Clinical Pathology*	3	BIO 378	Human Physiology Lab (S)	1
---	Free Elective .....	2	CIS 212	Intro. to Computer Info System	3
BIO 111	Cell & Molecular Biology (S)	4	or INF 104	or intro to Data Mgmt (S) .....	...
---	Oral Communication (E-1C)	3	HSA 200	Medical Terminology (S)	3
---	GEN Education (E- 3, 5 or 6)	3	---	Free Elective (recommend BIO 320)	3 (4)
---			---	GEN Education (E- 3, 5 or 6)	3
<b>Total Hours</b>			<b>Total Hours</b>		
<b>15/18</b>			<b>16/17</b>		

**SUMMER (Pre-MLS)**

MLS 290 Medical Biochemistry# (S) 3

**THIRD YEAR (Upper Division MLS)**

<u>Fifth Semester (Fall)</u>			<u>Sixth Semester (Spring)</u>		
MLS 300	Laboratory Administration	2	MLS 303	Clinical Laboratory Skills†	1
MLS 303	Clinical Laboratory Skills†	1	MLS 305	Analysis of Body Fluids	2
MLS 308	Clinical Serology	2	MLS 309	Clinical Immunology†	1
MLS 309	Clinical Immunology†	1	MLS 320	Immunohematology	3
MLS 310	Hematology and Coagulation	5	MLS 346	Clinical Chemistry	5
MLS 350	Bacteriology	5	MLS 355	Mycology, Parasitology, and Virology	4
<b>Total Hours</b>			<b>Total Hours</b>		
<b>14/16</b>			<b>14/16</b>		

**FOURTH YEAR (Upper Division MLS)**

<u>Summer Session</u>			<u>Practicum (5 months)</u>		
MLS 431	Clinical Correlations	3	MLS 432	Clinical Chemistry Pract.	5
MLS 438	Hematology Pract.	4	MLS 434	Clinical Microbiology Pract.	4
<b>Total Hours</b>			MLS 436	Lab Mgmt/Education	1
<b>7</b>			MLS 437	Clinical Laboratory Seminar	3
			MLS 439	Urinalysis Pract.	1
			MLS 440	Blood Bank Pract.	2
			MLS 441	Immunology Pract.	1
			<b>Total Hours</b>		
			<b>17</b>		

(S) Supporting course ;

\* MLS 201 is only taken once in the second or third semester;

† MLS 303 and MLS 309 are only taken once in the fifth or sixth semester; # MLS 290 can be taken in fourth semester or in the summer

**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) after the course description.