

**Capital Scholars Honors Program
Advising Guide for Medical Laboratory Science
2021-2022 (FOUR YEAR)**

Recommended Course Schedule

Year 1:

Fall Semester	Hours	Spring Semester	Hours
CAP 111: Honors Composition	3 Hrs.	CAP 115: Interdisciplinary Writing	3 Hrs.
CAP 122: Who Am I?	3 Hrs.	CAP 123: How Do You Know?	3 Hrs.
CAP 102: Introduction to Honors	2 Hrs.	BIO 201: Anatomy and Physiology I	4 Hrs.
CHE 141: Principles of Chemistry I (* Prerequisites)	4 Hrs.	CHE 142: Principles of Inorganic Chemistry II	4 Hrs.
CHE 143: Recitation for General Chemistry I (must be taken concurrently with CHE 141)	0 Hrs.	CHE 144: Recitation for General Chemistry II (must be taken at the same time as CHE 142)	0 Hrs.
BIO 141: Unity of Living Organisms	4 Hrs.	Honors Global Awareness	3-4 Hrs.
<i>Total</i>	<i>16 Hrs.</i>	<i>Total</i>	<i>18 Hrs.</i>

* High school chemistry and placement in MAT 094 or higher.

Summer First Year:

Summer Semester	Hours
MAT 111: Quant Reasoning, MAT 115: Calculus I, or MAT 121 (Fall or Spring, Year 1)	3- 4Hrs.
COM 112: Oral Communication (Fall or Spring, Year 1)	3 Hrs.
<i>Total</i>	<i>6-7 Hrs.</i>

Year 2:

Fall Semester	Hours	Spring Semester	Hours
CAP 225: What is Good?	3 Hrs.	CAP 226: What is Power?	3 Hrs.
CHE 267: Fundamental Organic Reactions	3 Hrs.	CAP 25x/35x: Global Issues	3 Hrs.
CHE 268: Organic Chemistry I lab (needed for minor in CHE)	1 Hr.	MAT 121: Applied Statistics OR MAT 111: Quant Reasoning or MAT 115: Calculus I	3 Hrs.
Bio 345: General Microbiology (preferred) OR BIO 231	3 Hrs.	Honors Global Awareness	3-4 Hrs.
BIO 346: Microbiology Lab (preferred) OR BIO 232	1 Hr.	ECCE: Speaker Series	1 Hr.
BIO 231- Applied Microbiology	3 Hrs.	BIO 202: Anatomy and Physiology II	4 Hr.
BIO 232- Applied Microbiology Lab	1 Hr.		
<i>Total</i>	<i>15 Hrs.</i>	<i>Total</i>	<i>17- 18 Hrs.</i>

Summer Second Year:

Summer Semester	Hours
Visual/Creative/Performing Arts Requirement	3 Hrs.
Social Behavioral Science	3 Hrs.
<i>Total</i>	<i>6 Hrs.</i>

Year 3:

Fall Semester	Hours	Spring Semester	Hours
MLS 341: Physiologic Processes	3 Hrs.	MLS 480: Molec. Diag and Bioanalytical Chemistry	4 Hrs.
MLS 311: Laboratory Operations	2 Hrs.	MLS 405: Intro to U/A-1 st Half MLS 404: Intro to Hemostasis-2 nd	3 Hrs.
MLS 321: Seminar in CLS	2 Hrs.	MLS 401: Intro Clin Chem	2 Hrs.
MLS 447: Medical My/Pa	4 Hrs.	MLS 347: Med Bacteriology	4 Hrs.
Honors Global Awareness	4 Hrs.	Honors Global Awareness	4 Hr.
MLS 448: Immunology	3 Hrs.		
MLS 449: Immunology Lab	1 Hrs.	<i>Total</i>	
<i>Total</i>	<i>19 Hrs.</i>		<i>17 Hrs.</i>

Summer Third Year: (Required)

Summer Semester	Hours
MLS 402: Intro to Hem	2 Hrs.
MLS 403: Intro Immunohem	2 Hrs.
MLS 454: Adv. Clin Chem	2 Hrs.
<i>Total</i>	<i>7 Hrs.</i>

Year 4:

Fall Semester	Hours	Spring Semester	Hours
MLS 452: Adv. Hematology	2 Hrs.	MLS 411: Health Care Mgmt. (ECCE- US Communities)(NOT offered Spring 2020)	3 Hrs.
MLS 451: Adv. Immunohem	2 Hrs.	MLS 456: Clinical Correlation	2 Hrs.
Practicum Courses**	8-10 Hrs.	Practicum Courses**	7-9 Hrs.
CAP 402: Senior Seminar	1 Hrs.	[CLS 499: Tutorial]***	[3 Hrs.]
<i>Total</i>	<i>13-15 Hrs.</i>	<i>Total</i>	<i>12-17 Hrs.</i>

****Practicum Courses (6 of these credit hours and count for ECCE: Engagement Experience)**

(Monday through Friday in hospital laboratories, usually 7 AM- 3:30 PM)

ECCE: MLS 421 Clin Chem Lab	3 (includes Urinalysis, Immunology)
ECCE: MLS 422 Clin Hem Lab	3 (includes Hemostasis)
ECCE: MLS 423 Clin Micro Lab	3 (includes Mycol, Parasit, Virol)
ECCE: MLS 424 Clin Immunohem Lab	3 (includes Transfusion Services)
ECCE: MLS 431 Special Topics	5

Total 17

***If you also want MLS Department Honors (see the MLS Student Handbook)

The MLS Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). The MLS Program provides students with academic and laboratory experiences both on-campus and in actual clinical settings. The program offers excellent laboratory facilities, a low student/teacher ratio, experienced faculty, and a job placement rate for graduates of 100%. Students complete clinical experiences at two accredited medical laboratories. Applicants need to consider transportation to and housing at clinical sites outside Springfield.

ECCE (Engaged Citizenship Common Experience) 10 Hours	CAP and CLS Courses That Count Towards ECCE
• U.S. Communities (3 hrs)	CLS 411: Health Care Mgmt.
• Global Awareness (3 hrs)	CAP 25x/35x: Global Issues
• Engagement Experience (3 hrs)	CLS Clinical Courses (6 hrs)
• Speakers Series (1 hr)	

UIS Students complete ECCE requirements in at least 2 of the 3 ECCE categories-U.S. Communities, Global Awareness, Engagement Experience (per CAP and major requirements)-in addition to Speakers Series- 10 Hours.

Medical Laboratory Science Program: Andrea Jensen, Program Director (as of Fall 2020)

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