

**Capital Scholars Honors Program  
Advising Guide for Medical Laboratory Science  
2020-2021 (FOUR YEAR)**

**\*\*General Biology and General Microbiology option\*\***

**Year 1:**

<b>Fall Semester</b>	<b>Hours</b>	<b>Spring Semester</b>	<b>Hours</b>
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 241: Biology of Organisms in the Environment OR MAT 121: Applied Statistics (3hrs)	3 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>16-17 Hrs.</i>

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

**Summer First Year:**

<b>Summer Semester</b>	<b>Hours</b>
MAT 111: Quant Reasoning or MAT 115: Calculus I (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:**

<b>Fall Semester</b>	<b>Hours</b>	<b>Spring Semester</b>	<b>Hours</b>
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	3-4 Hrs.
CHE 268: Organic Chemistry I lab	1 Hr.	MAT 121: Applied Statistics OR MAT 111: Quant Reasoning or MAT 115: Calculus I	3 Hrs.
BIO 345: General Microbiology	3 Hrs.	Honors Global Awareness	3-4 Hrs.
BIO 346: General Microbiology Lab	1 Hr.		
ECCE: Speaker Series	1 Hr.		
<i>Total</i>	<i>12 Hrs.</i>	<i>Total</i>	<i>13-14 Hrs.</i>

**Summer Second Year:**

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

**Year 3:**

<b>Fall Semester</b>	<b>Hours</b>	<b>Spring Semester</b>	<b>Hours</b>
MLS 301: Foundations of MLS	1 Hrs.	MLS 383: Medical Microbiology I	4 Hrs.
MLS 311: Laboratory Operations	2 Hrs.	MLS 384: Clinical Chemistry I	4 Hrs.
MLS 382: Hematology I	3 Hrs.	MLS 442: Hematology II	4 Hrs.
MLS 448: Introduction to Immunology	3 Hrs.	MLS 468: Immunohematology	4 Hrs.
MLS 449: Introductory Immunology Lab	1 Hrs.		
Honors Global Awareness	3-4 Hrs.		
		<i>Total</i>	
<i>Total</i>	<i>13- 14 Hrs.</i>		<i>16 Hrs.</i>

**Summer Third Year: (Required)**

<b>Summer Semester</b>	<b>Hours</b>
MLS 331: Evidence Based Inquiry	2 Hrs.
MLS 443: Medical Microbiology II	3 Hrs.
MLS 444: Clinical Chemistry II	3 Hrs.
<i>Total</i>	<i>8 Hrs.</i>

**Year 4:**

<b>Fall Semester</b>	<b>Hours</b>	<b>Spring Semester</b>	<b>Hours</b>
MLS 477: Molecular Diagnostics (online)	2 Hrs.	MLS 481: Education & Management	2 Hrs.
MLS 497: Senior Seminar I	2 Hrs.	MLS 488: ECCE: Practicum II (Engagement Experience)	6 Hrs.
MLS 487: ECCE: Practicum I (Engagement Experience)	6 Hrs.	MLS 496: Special Topics Practicum (repeatable if content is sufficiently variable)	2 Hrs.
		MLS 498: Senior Seminar II	2 Hrs.
CAP 402: Senior Seminar	1 Hrs.	[MLS 400: Applied Research] Only if student is seeking Honors in MLS (Department Honors)	[3 Hrs.]
ECCE- U.S. Communities or Global Awareness	3 Hrs.		
<i>Total</i>	<i>14 Hrs.</i>	<i>Total</i>	<i>12-15 Hrs.</i>

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.

<b>ECCE (Engaged Citizenship Common Experience) 10 Hours</b>	<b>CAP and MLS Courses That Count Towards ECCE</b>
• U.S. Communities (3 hrs)	CAP 25x/35x: Global Issues
• Global Awareness (3 hrs)	MLS 487 Practicum I
• Engagement Experience (3 hrs)	MLS 488 Practicum II
• 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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Updated 6/3/2020