THE UNIVERSITY OF RHODE ISLAND

Medical Laboratory Science - BS	Student:	
EL_CLSC_BS	Student ID:	
120 Farned Credits Total	Advisor:	

ABOUT THE BS in MEDICAL LABORATORY SCIENCE:

The Medical Laboratory Science major is concerned with the diagnosis, treatment, and prevention of disease using analytical methods in the clinical laboratory. The clinical program includes lecture and laboratory instruction in clinical chemistry, clinical microbiology, hematology, immunology, immunohematology and molecular pathology, and prepares the student for the national certification examinations and state licensure. web.uri.edu/cmb/medical-laboratory-science.

Step 1: REVIEW YOUR PROGRAM REQUIREMENTS

INTRODUCTION Requirement: (2 credits)

Course	Semester	Credits	Grade
MLS 102	Spring	1	
URI 101		1	

BIOLOGY Requirement: (16 credits)

Course	Semester	Credits	Grade
*BIO 101		3	
*BIO 103		1	
*BIO 102		3	
*BIO 104		1	
BIO 220		3	
BIO 221		1	
BIO 222		3	
BIO 223		1	

CHEMISTRY Requirement: (16 credits)

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Course	Semester	Credits	Grade		
CHM *101		3			
CHM 102		1			
CHM 112		3			
CHM 114		1			
CHM 227		3			
CHM 228		3			
CHM 226		2			

MATH Requirement: (3-4 credits)

Pick 1 of the following:

Tient 2 or time remerting.							
Course	Semester	Credits	Grade				
*MTH 111		3					
OR							
*MTH 131		3					
OR							
*MTH 141		4					

PHYSICS Requirement: (4 credits)

Course	Semester	Credits	Grade
*PHY 111		3	
*PHY 185		1	·

CMB and MLS CONCENTRATION COURSES (16 credits)

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Course	Semester	Credits	Grade
CMB 201 (preferred) or 211		3	
CMB 311		3	
CMB 333	Fall	3	
CMB 432	Spring	3	
*MLS 483	Fall	3	

**MLS CLINICAL INTERNSHIP COURSES (32 credits)

Course	Semester	Credits	Grade
MLS 405	Fall	2	
MLS 409	Fall	4	
MLS 411	Fall	4	
MLS 413	Fall	2	
MLS 415	Fall	3	
MLS 451	Fall	2	
MLS 406	Spring	2	
MLS 410	Spring	4	
MLS 412	Spring	4	
MLS 414	Spring	2	
MLS 416	Spring	3	

FREE ELECTIVES:

TIVEL LEECTIVES.			
Course	Semester	Credits	Grade

^{*}Course approved for general education.

Effective: 2019-2020

^{**}Important Note: The senior year clinical internship (MLS 405-451) has limited placements and acceptance is competitive. Application to the MLS admissions committee occurs at the beginning of the junior year; a minimum overall GPA and math/science GPA of ≥2.5 is required to be considered for the application process. The actual minimal GPA required for acceptance may be higher than 2.5; it is dependent upon the number of applicants and the number of internship placements. Students who do not meet the minimum 2.5 requirement to apply, or who are not accepted into the internship are advised to meet with an academic or professional advisor to determine a new course of study.

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Medical La	boratory	Science - B.	S.			Student:	
120 Earned	Credits Tot	tal				Student ID:	
						Advisor:	
General Ed	ucation (<u> Guidelines:</u>				•	
General edu	cation is 4	10 credits. Eac	ch of the twelve	outcomes	s (A1-D1) mu	st be met by at least 3 credits. A single cou	irse may meet more
					-	total. At least one course must be a Grand	=
than twelve	credits ca	n have the sa	ame course code	. General	education co	ourses may also be used to meet requirem	ents of the major or
minor when	appropri	ate.					
LIST COURS	ES THAT M	IEET GENERA	L EDUCATION:			LIST COURSE AS EACH OUTCOME IS N	1ET:
	Ge	neral Educati	on Credit Count			General Education Outo	ome Audit
	At least 4	40 credits, no	more than 12 cr	edits			Course
	,	with the same	e course code			KNOWLEDGE	
Course	Credits	Grade	Course	Credits	Grade	A1. STEM	*BIO 101
*BIO 101	3					A2. Social & Behavioral Sciences	
*BIO 103	1					A3. Humanities	
*BIO 102	3					A4. Arts & Design	
*BIO 104	1					COMPETENCIES	
*CHM 101	3					B1. Write effectively	
*MTH						B2. Communicate effectively	
*PHY 111	3					B3. Mathematical, statistical, or	
*PHY 185	1					computational strategies	*MTH
*MLS 483	3					B4. Information literacy	
						RESPONSIBILITIES	
						C1. Civic knowledge &	
			Total Gen			responsibilities	
			Ed Credits			C2. Global responsibilities	
						C3. Diversity & Inclusion	
NOTE: BECAL	ISE MOST C	OURSES MEET	MORE THAN ONE	оитсомі	F. YOUR	INTEGRATE & APPLY	
			ED BEFORE YOU R		•	D1. Ability to synthesize	*MLS 483
CREDITS. HO	WEVER, YO	U MUST STILL	COMPLETE 40 CRE	DITS OF GE	NERAL	GRAND CHALLENGE	
EDUCATION							
*course fulf	ills genera	l education a	ınd a major requ	irement		G. At least one course of your 40	
			,			credits is an approved "G" course	
The require	ment for t	ransfer to CE	LS out of Univers	sity Colleg	e for Acader	mic Success:	
Minimum 24	1 credits ar	nd cumulative	e 2.0 GPA.				
Advising N	otes:						
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Minimum 2.0 cumulative GPA required in major and graduation.

B.S. Medical Laboratory Science Sample 4 Year Plan - Effective Fall 2019 College of The Environment and Life Sciences

Freshman Year Fall Semester

Course Code	Description	Cr	Cum Cr
URI 101	Planning for Academic Success	1	
*BIO 101/103	Principles of Biology I/Lab	4	
*CHM 101/102	General Chemistry I/Lab	4	
*MTH 111 OR 131	Precalculus or Applied Calculus I	3	
	*General Education Course	3-4	

Freshman Year Spring Semester

Course Code	Description	Cr	Cum Cr
*BIO 102/104	Principles of Biology II/Lab	4	
*CHM 112/114	General Chemistry II/Lab	4	
MLS 102	Intro to Clinical Lab Sci	1	
	*General Education Course	3-4	
		•	
		15-18	29-33

Year 1 Milestones: Complete BIO 101, 103, 102, 104, CHM 112, 114, and MTH 111 OR 131. Earn 30 credits with a cumulative GPA of 2.0 or higher.

14-15 14-15

Sophomore Year Fall Semester

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Course Code	Description	Cr	Cum Cr
BIO 220/221	Anatomy & Physiology I lecture/lab	4	
CHM 227	Organic Chemistry I	3	
*PHY 111/185	General Physics I, Lab	4	·
	*General Education Course	3-4	·
		14-15	43-48

Sophomore Year Spring Semester

Course Code	Description	Cr	Cum Cr
BIO 222/223	Anatomy & Physiology II lecture/lab	4	
CHM 226	Organic Chemistry Lab	2	
CHM 228	Organic Chemistry II	3	
CMB 201 OR *211	Introductory Medical Microbiology OR Integrative Microbiology	4	
	*General Education Course	3-4	
		15-16	58-64

Year 2 Milestones: Complete **CMB** 201 OR 211, **BIO** 220/221, 222/223 **CHM** 227, 228, 226. Meet with a MLS Faculty advisor to discuss research/internship opportunities and plan year 3 and 4 courses. Earn 60 total credits with a cumulative GPA of 2.0 or higher.

Junior Year Fall Semester

Course Code	Description	Cr	Cum Cr
CMB 333	Immunology & Serology	3	
MLS 483	Intro Diagnostic Microbiology	3	
	*General Education Course	3-4	
	*General Education Course	3-4	
	*General Education Course	3-4	
		15-19	73-83

Junior Year Spring Semester

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Course Code	Description	Cr	Cum Cr
CMB 432	Pathogenic Bacteriology	3	
CMB 311	Introductory Biochemistry	3	
	*General Education or Elective	3-4	
	*General Education or Elective	3-4	
	*General Education or Elective	3-4	
		15-19	88- 102

Year 3 Milestones: Complete PHY 111, 185, CMB 333, 311, 432, MLS 483. Apply for placement in the clinical internship during the fall semester. Meet with a MLS Faculty advisor to plan year 4 courses. Earn 90 total credits with a cumulative GPA of 2.0 or higher. Prepare intent to graduate with faculty advisor for Fall submission.

Senior Year Fall Semester

Course Code	Description	Cr	Cum Cr
MLS 405	Molecular Pathology	2	
MLS 409	Clinical Microbiology I	4	
MLS 411	Clinical Chemistry I	4	
MLS 413	Immunohematology I	2	
MLS 415	Hematology I	3	
MLS 451	Prof Topics in Clin Lab Science	2	
		17	105-

Senior Year Spring Semester

Course Code	Description	Cr	Cum Cr
MLS 406	Clinical Immunology	2	
MLS 410	Clinical Microbiology II	4	
MLS 412	Clinical Chemistry II	4	
MLS 414	Immunohematology II	2	
MLS 416	Hematology II	3	
		15	120- 134

Year 4 Milestones: Complete MLS internship. Earn total 120 credits with a cumulative GPA of 2.0 or higher. Minimum 2.0 cumulative GPA in CMB/MLS concentration courses.