THE UNIVERSITY OF RHODE ISLAND

Medical Laboratory Science - BS	Student: _	
EL_CLSC_BS	Student ID:	
120 Earned 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: (12 credits)

CHEWISTRY Requirement: (12 credits)						
Course	Semester	Credits	Grade			
CHM *101		3				
CHM 102		1				
CHM 112		3				
CHM 114		1				
CHM 124		3				
CHM 126		1				

MATH Requirement: (7-8 credits)

Select 1 of the following sequences:

Course	Semester	Credits	Grade
*MTH 111		3	
STA 308		4	
OR			
*MTH 131/141		3-4	
STA 307/308		4	

PHYSICS Requirement: (4 credits)

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

CMB and MLS CONCENTRATION COURSES (20 credits)

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Course	Semester	Credits	Grade			
CMB 201 (preferred) or 211		4				
CMB 311		3				
CMB 333	Fall	3				
CMB 352		4				
MLS 360	Spring	3				
*MLS 483	Fall	3				

PROFESSIONAL ELECTIVE COURSES (6 credits)

Any 2: BIO 341, CMB 320, 334, 432, 435, 437

Course	Semester	Credits	Grade
		3	
		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:

Course	Semester	Credits	Grade

^{*}Course approved for general education.

Effective: 2020-2021

^{**}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.

THE UNIVERSITY OF RHODE ISLAND

Medical La	boratory	Science -	B.S.			Student	•	
120 Earned (Credits Tot	al				Student ID:		
						Advisor		
General Ed	ucation G	uidelines	<u>s:</u>					
General edu	cation is 4	0 credits.	Each of the twelv	e outcome	es (A1-D1) m	ust be met by at least 3 credits. A single	course may	
						he 40 credit total. At least one course m	=	
Grand Challe	enge (G). N	lo more th	nan twelve credits	can have	the same co	urse code. General education courses m	ay also be	
used to mee	t requiren	nents of th	ne major or minoi	when app	ropriate.			
LIST COURSE	S THAT M	EET GENEI	RAL EDUCATION:			LIST COURSE AS EACH OUTCOME IS	S MET:	
	Gen	eral Educa	ation Credit Coun	t		General Education Outcome Audit		
	At least 4	O credits, i	no more than 12 o	redits			Course	Grade
	V	vith the sai	me 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: BECAU	SE MOST C	OURSES ME	EET MORE THAN ON	IE OUTCOM	E. YOUR	INTEGRATE & APPLY		
			ETED BEFORE YOU		-	D1. Ability to synthesize	*MLS 483	
	VEVER, YOU	J MUST STI	LL COMPLETE 40 CF	REDITS OF G	ENERAL	GRAND CHALLENGE		
EDUCATION						G. At least one course of your 40		
*course fulfi	ills genera	education	n and a major req	uirement		credits is an approved "G" course		
						credits is an approved a course		
						•	-,	
The require	ment for t	ransfer to	CELS out of Unive	rsity Colle	ge for Acade	mic Success:		
Minimum 24	credits ar	nd cumulat	ive 2.0 GPA.					
Advising No	otes:						_	
							_	
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Minimum 2.0 cumulative GPA required in major for graduation.

B.S. Medical Laboratory Science Sample 4 Year Plan - Effective Fall 2020 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	
STA 307 OR 308	Intro. Statistics or Intro. Biostatistics	4	
	*General Education Course	3-4	
		16 17	24 22

Year 1 Milestones: Complete BIO 101/103, 102/104, CHM 112/114, MLS 102, MTH 111 OR 131 and STA 307 OR 308. Earn 30 credits with a cumulative GPA of 2.0 or higher.

15-16 15-16

Sophomore Year Fall Semester

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Course Code	Description	Cr	Cum Cr
BIO 220/221	Anatomy & Physiology I lecture/lab	4	
CHM 124	Intro. to Organic Chemistry	3	
CHM 126	Lab for CHM 124	1	
*PHY 111/185	General Physics I, Lab	4	
	*General Education Course	3-4	
		15-16	46-49

Sophomore Year Spring Semester

Course Code	Description	Cr	Cum Cr
BIO 222/223	Anatomy & Physiology II lecture/lab	4	
CMB 201 OR *211	Introductory Medical Microbiology OR Integrative Microbiology	4	
MLS 360	Fundamentals of the Medical Laboratory	3	
	*General Education Course	3-4	
		14-15	60-64

Year 2 Milestones: Complete CMB 201 OR 211, BIO 220/221, 222/223, CHM 124/126, MLS 360 and PHY 111/185. 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 2.5 or higher.

Junior Year Fall Semester

Course Code	Description	Cr	Cum Cr
CMB 333	Immunology & Serology	3	
MLS 483	Intro Diagnostic Microbiology	3	
	Professional Elective Course	3	
	*General Education Course	3-4	
	*General Education Course	3-4	
		15-17	75-81

Junior Year Spring Semester

James 1941 Spring Competer			
Course Code	Description	Cr	Cum Cr
CMB 352	General Genetics	4	
CMB 311	Introductory Biochemistry	3	
	Professional Elective Course	3	
	*General Education or Elective	3-4	
	*General Education or Elective	3-4	
		16-18	91-99

Year 3 Milestones: Complete **CMB** 333, 311, 352, **MLS** 483 and two professional electives. Apply for placement in the clinical internship during the fall semester. Meet with a MLS Faculty advisor to discuss year 4 courses. Earn 90 total credits with a cumulative GPA of 2.5 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	108- 116

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	123- 131

Year 4 Milestones: Complete MLS internship. Earn total 120 credits with a cumulative GPA of 2.5 or higher. Minimum 2.5 cumulative GPA in CMB/MLS concentration courses.