Medical Laboratory Science - BS	THE UNIVERSITY OF RHODE ISLAND	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		1	
URI 101		1	

BIOLOGY Requirement: (15 credits)

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

CHEMISTRY Requirement: (16 credits)

Citation (20 Citatio)				
Course	Semester	Credits	Grade	
CHM *101		3		
CHM 102		1		
CHM 112		3		
CHM 114		1		
CHM 226		2		
CHM 227		3		
CHM 228		3		

MATH Requirement: (3-4 credits)

Pick 1 of the following:

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 (15 credits)

Course	Semester	Credits	Grade
CMB 211		3	
CMB 311		3	
CMB 333		3	
CMB 432		3	
MLS 483		3	

**MLS CLINICAL INTERNSHIP COURSES (32 credits)

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

FREE ELECTIVES:

Course	Semester	Credits	Grade

^{*}Course approved for general education.

Effective: 2018-2019

^{**}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 overrall and math/science GPA of 2.5 or better 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 change their major to Cell and Molecular Biology/Microbiology option. This degree may be completed in the same time period as MLS.

Student ID:	
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Advisor:	
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be met by at least 3 credits. A single cou tal. At least one course must be a Grand rses may also be used to meet requireme	Challenge (G). No mo
LIST COURSE AS EACH OUTCOME IS M	ET:
General Education Outc	
	Course
KNOWLEDGE	
A1. STEM	*BIO 101
A2. Social & Behavioral Sciences	
A3. Humanities	
A4. Arts & Design	
COMPETENCIES	
B1. Write effectively	
B2. Communicate effectively	
B3. Mathematical, statistical, or	
computational strategies	*MTH
B4. Information literacy	
RESPONSIBILITIES	
C1. Civic knowledge & responsibilities	
C2. Global responsibilities	
C3. Diversity & Inclusion	
INTEGRATE & APPLY	
D1. Ability to synthesize	
GRAND CHALLENGE	
G. At least one course of your 40 credits is an approved "G" course	
c Success:	
i	ic Success:

Minimum 2.0 cumulative GPA required in major for graduation.

B.S. Medical Laboratory Science Sample 4 Year Plan - Effective Fall 2018 College of The Environment and Life Sciences

Freshman Year Fall Semester

Course Code	Description	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	
		14-15	0

Freshman Year Spring Semester

Course Code	Description	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	n

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

Sophomore Year Fall Semester

Course Code	Description	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	0

Sophomore Year Spring Semester

Course Code	Description	Cr	
BIO 222/223	Anatomy & Physiology II lecture/lab	4	
CHM 226	Organic Chemistry Lab	2	
CHM 228	Organic Chemistry II	3	
CMB 211	Introductory Microbiology	4	
	*General Education Course	3-4	
		15-16	0

Year 2 Milestones: Complete CMB 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	
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	0

Junior Year Spring Semester

Course Code	Description	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	0

Year 3 Milestones: Complete PHY 111, 185, CMB/BIO 333, 311, 432, MLS 483. 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	
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	0

Senior Year Spring Semester

Course Code	Description	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	0

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