

B.S. IN CLINICAL LABORATORY SCIENCES WITH A CONCENTRATION IN MEDICAL LABORATORY SCIENCE (CL.MLS.BS)

Code	Title	Credits
Major Requirements/Clinical Lab Sciences Core (36 credits)¹		
BY-110	Introduction to Cell and Molecular Biology	4
BY-211	Physiology with Anatomy I	4
BY-212	Physiology with Anatomy II	4
CE-111	General Chemistry I	3
CE-111L	General Chemistry Laboratory I	1
CE-112	General Chemistry II	3
CE-112L	General Chemistry Laboratory II	1
CE-241	Organic Chemistry I	3
CE-241L	Organic Chemistry Laboratory I	2
CE-242	Organic Chemistry II	3
BY-310	Biochemistry and Lab	4
BY-223	General Microbiology	4
<i>(Science courses satisfy Natural Science (NS) in General Education)</i>		
Interdisciplinary Requirements (6-7 credits)		
One of the following three courses		3-4
MA-115	Pre-Calculus Modeling for the Biological Sciences ²	
MA-116	Calculus for the Biological Sciences	
MA-125	Calculus with Analytic Geometry I	
and		
MA-151	Statistics with Applications	3
<i>(MA-115 or MA-151 satisfies Mathematics in General Education)</i>		
Concentration Requirements (3 credits)		
BY-431	Immunology	3
Professional Credits (45 credits)		
Completion of 81 credits of pre-professional credits is followed by an internship at Rutgers, School of Health Related Professions. Will count as partial fulfillment of WT requirement.		45
Free Electives (0 credits)³		
The number of required electives, if any, should be determined with your advisor. ³		0
General Education Requirements (36 credits)⁴		
Complete 36 credits as outlined on the General Education table. ⁴		36
Total Credits		126-127

¹ Students who have not completed all core requirements with a "C" grade or better will be ineligible for admission to the required internship program at Rutgers-SHRP.

- ² MA-116 Calculus for the Biological Sciences (3 cr.) or MA-125 Calculus with Analytic Geometry I (4 cr.) are to be taken by students who score 4 on the Math Placement Exam.
- ³ Please consult with your advisor regarding the required number of free electives that must be completed.
- ⁴ The General Education curriculum requires the completion of 45 credits. However, students may be able to share credits from within their major or interdisciplinary requirements. Please consult with your advisor to determine which General Education (<http://catalog.monmouth.edu/undergraduate-catalog/academic-programs-support-services-regulations/general-education-requirements/>) courses must be completed.

Notes

- 54 credits must be completed at the 200 level or higher.

B.S. in Clinical Laboratory Sciences with a Concentration in Medical Laboratory Science Sequence Chart

First Year			
Fall	Credits	Spring	Credits
CE-111 General Chemistry I		3 CE-112 General Chemistry II	3
CE-111L General Chemistry Laboratory I	1	CE-112L General Chemistry Laboratory II	1
Mathematics Interdisciplinary Course (Please see curriculum chart)	3-4	BY-110 Introduction to Cell and Molecular Biology	4
EN-101 College Composition I	3	EN-102 College Composition II	3
Gen*Ed Social Science	3	IT-102 Information Technology for Scientists	3
Semester Credits		13-14 Semester Credits	
Second Year			
Fall	Credits	Spring	Credits
CE-241 Organic Chemistry I		3 CE-242 Organic Chemistry II	3
CE-241L Organic Chemistry Laboratory I	2	BY-212 Physiology with Anatomy II	4
BY-211 Physiology with Anatomy I	4	MA-151 Statistics with Applications	3
Gen*Ed Literature	3	Gen*Ed Historical Persp. or Social Science	3
Gen*Ed Historical Persp	3		
Semester Credits		15 Semester Credits	
Third Year			
Fall	Credits	Spring	Credits
BY-310 Biochemistry and Lab	4	BY-223 General Microbiology	4
BY-431 Immunology	3	Gen*Ed Interdisciplinary Perspectives	3
Gen*Ed World Language	3	Gen*Ed Cultural Diversity or Global Understanding	3
Gen*Ed Aesthetics	3	Gen*Ed Reasoned Oral Discourse	3
Semester Credits		13 Semester Credits	
Fourth Year			
Fall	Credits	Spring	Credits
Clinical Internship RUTGERS-SHRP	23	Clinical Internship RUTGERS-SHRP	22
Semester Credits		23 Semester Credits	
Total Credits 126-127			