B.S. IN MEDICAL LABORATORY SCIENCE (MLS.BS)

Code	Title	Credits			
Major Require	ements/Laboratory Science (45 credits)				
CE-111	General Chemistry I	3			
CE-111R	General Chemistry I Recitation	1			
CE-111L	General Chemistry I Laboratory	1			
CE-112	General Chemistry II	3			
CE-112R	General Chemistry II Recitation	1			
CE-112L	General Chemistry II Laboratory	1			
CE-241	Organic Chemistry I	3			
CE-241L	Organic Chemistry I Laboratory	1			
CE-242	Organic Chemistry II	3			
CE-242L	Organic Chemistry II Laboratory	1			
CE-221	Analytical Chemistry I Quantitative Analysis	3			
CE-221L	Analytical Chemistry I Laboratory Quantitative Analysis	1			
BY-110	Introduction to Cell and Molecular Biology	4			
BY-211	Physiology with Anatomy I	4			
BY-212	Physiology with Anatomy II	4			
BY-223	General Microbiology	4			
CE-333	Biochemistry	3			
CE-333L	Biochemistry Laboratory	1			
BY-431	Immunology	3			
(Science co	ourses satisfy Natural Science (NS) in General				
Interdisciplina	ary Requirements (6-7 credits)				
One of the fol	lowing three courses	3-4			
MA-115	Pre-Calculus Modeling for the Biological Sciences ¹				
MA-116	Calculus for the Biological Sciences				
MA-125	Calculus with Analytic Geometry I				
and					
MA-151	Statistics with Applications	3			
Each of the Education)	above satisfy Mathematics in General				
Professional	Credits (32 credits) ^{2, 3}				
ML-411	Clinical Internship in Medical Laboratory Science I ³	16			
ML-412	Clinical Internship in Medical Laboratory Science II	16			
Free Electives	s (1 credits) ⁴				
Select 1 Free	1				
General Educ	General Education Requirements (36 credits) ⁵				
Complete 36 table. ⁵	credits as outlined on the General Education	36			
Total Credits		120-121			

- MA-116 Calculus for the Biological Sciences (3 cr.) or MA-125 Calculus with Analytic Geometry I (4 cr.) are taken by student who score 4 on the Math Placement Exam.
- Completion of collegiate work prescribed by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) is followed by an eleven month training period in a NAACLS-approved hospital program. Successful completion qualifies graduates to take the American Society of Clinical Pathologists (ASCP) Board Certificate Exam.
- ML-411 will partially complete Writing Intensive (WT) requirement in General Education Requirements.
- Please consult with your advisor regarding the required number of free electives that must be completed.
- 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. The order given in the sequence charts for Gen*Ed courses is advisory. Students may change the order of those course to suit their interests.
- Students can take BY-216 in place of IT-102 but there will be an additional credit since BY-216 is a 4-credit course. Students are therefore encouraged to consult their advisors.

Notes

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

B.S. in Medical Laboratory Science Sequence Chart

Credits	Spring	Credits	
:	3 CE-112 General Chemistry II		3
	1 CE-112R General Chemistry II Recitation		1
	1 CE-112L General Chemistry II Laboratory		1
3-	4 BY-110 Introduction to Cell and Molecular Biology		4
:	3 EN-102 College Composition II		3
:	3 Gen*Ed Historical Persp		3
14-1	5 Semester Credits		15
Credits	Spring	Credits	
;	3 CE-242 Organic Chemistry II		3
	1 CE-242L Organic Chemistry II Laboratory		1
	4 BY-212 Physiology with Anatomy		
			4
:			3
	II 3 MA-151 Statistics with		·
:	II 3 MA-151 Statistics with Applications		3
:	II 3 MA-151 Statistics with Applications 3 Gen*Ed Social Science		3
:	II 3 MA-151 Statistics with Applications 3 Gen*Ed Social Science	Credits	3
1 Credits	II 3 MA-151 Statistics with Applications 3 Gen*Ed Social Science 4 Semester Credits	Credits	3
	3- 14-1 Credits	3 CE-112 General Chemistry II 1 CE-112R General Chemistry II Recitation 1 CE-112L General Chemistry II Laboratory 3-4 BY-110 Introduction to Cell and Molecular Biology 3 EN-102 College Composition II 3 Gen*Ed Historical Persp 14-15 Semester Credits Credits Spring 3 CE-242 Organic Chemistry II Laboratory	3 CE-112 General Chemistry II 1 CE-112R General Chemistry II Recitation 1 CE-112L General Chemistry II Laboratory 3-4 BY-110 Introduction to Cell and Molecular Biology 3 EN-102 College Composition II 3 Gen*Ed Historical Persp 14-15 Semester Credits Credits Spring Credits 3 CE-242 Organic Chemistry II 1 CE-242L Organic Chemistry II

Laboratory Quantitative Analysis

Semester Credits		16 Semester Credits		16
Medical Laboratory Science I		Medical Laboratory Science II		
Fall ML-411 Clinical Internship in	Credits	Spring 16 ML-412 Clinical Internship in	Credits	16
Fourth Year				
Semester Credits		15 Semester Credits		16
Free Elective Credits		1 Gen*Ed Reasoned Oral Discourse		3
Gen*Ed Aesthetics		3 Gen*Ed Cultural Diversity or Global Understanding		3
Gen*Ed World Language		3 Gen*Ed Interdisciplanary Perspectives		3
CE-333L Biochemistry Laborato	ry	1 BY-431 Immunology		3

Total Credits 120-121