

B.S. IN MEDICAL LABORATORY SCIENCE

Code	Title	Credits
Major Requirements/Laboratory Science (43 credits)		
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-221	Analytical Chemistry I Quantitative Analysis	3
CE-221L	Analytical Chemistry I Laboratory Quantitative Analysis	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-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
BY-431	Immunology	3
<i>(Science courses satisfy Natural Science (NS) in General Education)</i>		
Interdisciplinary Requirements (6 credits)		
MA-115	Pre-Calculus Modeling for the Biological Sciences ¹	3
MA-151	Statistics with Applications	3
<i>(MA-115 or MA-151 satisfy Mathematics in General Education)</i>		
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 (3 credits)⁴		
Select up to 3 credits of Free Electives ⁴		3
General Education Requirements (36 credits)⁵		
Complete 36 credits as outlined on the General Education table. ⁵		36
Total Credits		120

¹ May substitute MA-116 Calculus for the Biological Sciences (3 cr.) or MA-125 Calculus with Analytic Geometry I (4 cr.), depending upon placement

² 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.

³ ML-411 will partially complete Writing Intensive (WT) requirement in General Education Requirements.

⁴ Please consult with your advisor regarding the required number of free electives that must be completed.

⁵ 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

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

B.S. in Medical Laboratory Science Sequence Chart

First Year		
Fall	Credits	Spring
CE-111 General Chemistry I	3	CE-112 General Chemistry II
CE-111L General Chemistry Laboratory I	1	CE-112L General Chemistry Laboratory II
MA-115 Pre-Calculus Modeling for the Biological Sciences	3	BY-110 Introduction to Cell and Molecular Biology
EN-101 College Composition I	3	IT-102 Information Technology for Scientists
Gen*Ed Social Science	3	EN-102 College Composition II
Semester Credits	13	Semester Credits
		14

Second Year		
Fall	Credits	Spring
CE-241 Organic Chemistry I	3	CE-242 Organic Chemistry II
CE-241L Organic Chemistry Laboratory I	2	BY-212 Physiology with Anatomy II
BY-211 Physiology with Anatomy I	4	MA-151 Statistics with Applications
Gen*Ed Literature	3	Gen*Ed Historical Persp. or Social Science
Gen*Ed Historical Persp	3	Gen*Ed Reasoned Oral Discourse
Semester Credits	15	Semester Credits
		16

Third Year		
Fall	Credits	Spring
BY-223 General Microbiology	4	BY-431 Immunology
BY-310 Biochemistry and Lab	4	Gen*Ed Interdisciplinary Perspectives
Gen*Ed Global Understanding	3	Gen*Ed Cultural Diversity
Gen*Ed Aesthetics	3	CE-221 Analytical Chemistry I Quantitative Analysis
		CE-221L Analytical Chemistry I Laboratory Quantitative Analysis
		Free Electives
Semester Credits	14	Semester Credits
		16

Fourth Year		
Fall	Credits	Spring
ML-411 Clinical Internship in Medical Laboratory Science I	16	ML-412 Clinical Internship in Medical Laboratory Science II
Semester Credits	16	Semester Credits
		16

Total Credits 120