

Bachelor of Science in Clinical Laboratory Sciences with a Concentration in Medical Laboratory Science	
MAJOR REQUIREMENTS/CLINICAL LAB SCIENCES CORE: 36 Credits (a)	Credits
BY110: Intro to Cell & Molecular Biology	4.0
BY211: Physiology with Anatomy I	4.0
BY212: Physiology with Anatomy II	4.0
CE111: General Chemistry I	3.0
CE111L: General Chemistry I Lab	1.0
CE112: General Chemistry II	3.0
CE112L: General Chemistry II Lab	1.0
CE241: Organic Chemistry I	3.0
CE241L: Organic Chemistry I Lab	2.0
CE242: Organic Chemistry II	3.0
BY310: Biochemistry and Lab	4.0
BY223: General Microbiology	4.0
OUTSIDE MAJOR REQUIREMENTS: 6 Credits	Credits
MA115: Introduction to Math Modeling in Biological Sciences (b)	3.0
MA151: Statistics with Applications	3.0
CONCENTRATION REQUIREMENTS: 4 Credits	Credits
BY324: Applied Microbiology	4.0
PROFESSIONAL CREDITS: 45 Credits (c)	Credits
Completion of 90 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.	45.0
FREE ELECTIVES: 5 Credits	Credits
_____	5.0
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<p>(a) 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.</p> <p>(b) May substitute MA116 or MA125, depending upon placement.</p> <p>(c) Students must complete 90 credits at Monmouth University.</p>	

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<b>GENERAL EDUCATION REQUIREMENTS: 39 Credits</b>		<b>Credits</b>
First Year Seminar	FY-101: First Year Seminar *(Select Section "CE")	3.0
Reading and Writing	EN101: College Composition I	3.0
	EN102: College Composition II	3.0
Mathematics	Fulfilled in Outside Major Requirements with MA115 or MA151	0.0
Natural Sciences	Fulfilled in Major Requirements with required BY and CE courses	0.0
Literature	3 Credits from courses designated with Course*Type: LIT	3.0
Aesthetics and Creativity	3 Credits from Art, Music, Theatre, or Dance	3.0
Technological Literacy	IT102: Information Technology for Scientists	3.0
Reasoned Oral Discourse	3 Credits from courses designated with Course*Type: RD	3.0
Historical Perspective	3 Credits from courses designated with Course*Type: HS.SV	3.0
Social Science	3 Credits from courses designated with Course*Type: SS.SV	3.0
Historical Perspective/Social Sciences	3 Credits from courses designated with Course*Type: HS.SV or 3 Credits from courses designated with Course*Type: SS.SV	3.0
Interdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity and Global Understanding or Foreign Language	3 Credits from courses designated with Course*Type: CD and 3 Credits from courses designated with Course*Type: GU or 6 Credits from the SAME foreign language	6.0
Experiential Education	One course designated with Course*Type: EX	0.0
Writing Intensive	One course from major designated with Course*Type: WT	0.0

**Minimum Credits for Bachelor of Science in Clinical Laboratory Sciences with a Concentration in Medical Laboratory Science = 135.0**

**NOTES:**

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