

Bachelor of Science in Clinical Laboratory Sciences with a Concentration in Medical Laboratory Science

MAJOR REQUIREMENTS/CLINCIAL LAB SCIENCE CORE: 42 Credits (a) **Credits**

	BY111: Anatomy and Physiology	4.0
	BY112: Anatomy and Physiology	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
	CE310: Biochemistry and Lab	4.0
	BY110: Intro to Cell & Molecular Biology	4.0
	BY223: General Microbiology	4.0
	MA115: Introduction to Math Modeling (b)	3.0
	MA151: Statistics with Applications	3.0

CONCENTRATION REQUIREMENTS: 4 Credits (a) **Credits**

	BY324: Applied Microbiology	4.0
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PROFESSIONAL CREDITS: 44 Credits (a) **Credits**

	Completion of 90 credits of pre-professional credits is followed by a 15-month internship at the University of Medicine and Dentistry of New Jersey, School of Health Related Professions.	44.0
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FREE ELECTIVES: 5 Credits **Credits**

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(a) Students who have not completed all core and concentration requirements with a "C" grade or better will be ineligible for admission to the required internship program at UMDNJ-SHRP.
 (b) May substitute MA109, MA116 or MA125, depending upon placement.

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GENERAL EDUCATION REQUIREMENTS: 39 Credits		Credits
First Year Seminar	FY-101: First Year Seminar (a)	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	3.0
	or 3 Credits from courses designated with Course*Type: SS.SV	
Interdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity/Global Understanding	3 Credits from courses designated with Course*Type: CD	6.0
	3 Credits from courses designated with Course*Type: GU	
	or 6 Credits from the SAME foreign language	
Experiential Education	One course designated with Course*Type: EX	0.0
Writing Intensive	One course from major designated with Course*Type: WT Second "WT" course waived due to Professional Credits	0.0

Total Credits for Bachelor of Science in Clinical Laboratory Sciences with a Concentration in Medical Laboratory Science = 134

NOTES:

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

(a) Recommended section of First Year Seminar is "CE"