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

MAJOR REQUIREMENTS/CLINICAL LAB SCIENCE CORE: 38 Credits (a)	Credits
BY111: Anatomy and Physiology I	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 in Biological Sciences *(b)*	3.0
MA151: Statistics with Applications	3.0

CONCENTRATION REQUIREMENTS: 3 Credits	Credits
BY370: Cell Biology	3.0

PROFESSIONAL CREDITS: 45 Credits (a) (c)	Credits
Completion of 90 credits of pre-professional credits is followed by a 12-month internship at the University of Medicine and Dentistry of New Jersey, School of Health Related Professions. Includes a 3-credit course in Histology, taken at UMDNJ during the summer prior to the internship; this course will count as partial fulfillment of WT requirement.	45.0

FREE ELECTIVES: 10 Credits	Credits
_____ _____ _____ _____ _____ _____ _____ _____	10.0

(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 UMDNJ-SHRP.

(b) May substitute MA116 or MA125, depending upon placement.

(c) Students must complete 90 credits at Monmouth University.

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GENERAL EDUCATION REQUIREMENTS: 39 Credits		**Credits**
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 Major Requirements with MA115 or MA151	0.0
Natural Sciences	Fulfilled in Major Requirements with BY or CE	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	Fulfilled in Professional Credits	0.0
Writing Intensive	Two courses from major designated with Course*Type: WT	0.0

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

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