

ABOUT THE MAJOR

Biochemistry, Cell, and Molecular Biology (BCMB) at Scranton is an interdisciplinary major that combines coursework from both the Biology and Chemistry departments. Students explore cutting-edge topics like genomics (the study of DNA), proteomics (the study of proteins), and bioinformatics (using technology to analyze biological data). It's a great fit for students curious about how life works at the molecular level and excited to dive into the future of science.

CONTACT US

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OUTCOMES & OPPORTUNITIES

- The BCMB major provides a strong foundation for students pursuing medical school, other health professions, or graduate programs in genetics, microbiology, molecular biology, cell biology, biochemistry, and biotechnology.
- With a strong foundation in undergraduate research and academics, BCMB graduates are well-prepared to launch careers in the biotech industry. Many students gain hands-on experience through internships at prestigious institutions like Princeton, Cornell, and Rockefeller.
- BCMB students have earned national recognition through prestigious awards like the Goldwater, Fulbright, and George Mitchell Scholarships. Recent graduates have been admitted to top medical and graduate schools, including Temple, Thomas Jefferson, Georgetown, Drexel, Harvard, Columbia, and the University of Pennsylvania.



THE UNIVERSITY *of* SCRANTON

Biochemistry, Cell & Molecular Biology

125-130.5 Credits

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1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 112/112L	General Chemistry	4.5
BIOL 141/141L	General Biology	4.5
WRTG 107	Composition	3
FREE ELECT	Free Elective	3
First Year Seminar		0
Total Credits: 15		

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 112/112L	General Chemistry	4.5
BIOL 141/141L	General Biology	4.5
MATH 114	Calculus I	4
BCMB 290	Seminar	1
First Year Seminar		0
Total Credits: 14		

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 232/232L	Organic Chemistry	4.5
BIOL/CHEM ELECT	Biology/Chemistry Elective I	3-5
HUMN ELECT	Humanities Elective	3
S/BH ELECT	Social/Behavioral Elective	3
FREE ELECT	Free Elective	3
Total Credits: 16.5-18.5		

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 233/233L	Organic Chemistry	4.5
BIOL 340/340L	Molecular Biology	5
BCMB 290	Seminar	1
T/RS 121	Theology I: Introduction to the Bible	3
PHIL 120	Introduction to Philosophy	3
Total Credits: 16.5		

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 450	Biochemistry I or	
CHEM 350	General Biochemistry	3
BIOL 350/350L	Cellular Biology	5
PHYS 120/120L	General Physics I	4
T/RS 122	Theology II: Introduction to Christian Theology	3
COGNATE ELECT	Cognate Elective	3
Total Credits: 18		

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CHEM 451	Biochemistry II or	
CHEM 351	General Biochemistry II	3
PHYS 121/121L	General Physics II	4
PHIL 210	Ethics	3
S/BH ELECT	Social Behavioral Elective	3
HUMN ELECT	Humanities Elective	3
Total Credits: 16		

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
BIOL 440/440L	Biotechnology	5
HUMN ELECT	Humanities Elective	3
PHIL ELECT	Philosophy or	
T/RS ELECT	T/RS Elective	3
FREE ELECT	Free Electives	6
Total Credits: 17		

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
BCMB 490	Biochemistry, Cell and Molecular Biology Capstone	3
BIOL/CHEM ELECT	Biology/Chemistry Elective	3-4.5
BIOL/CHEM ELECT	Biology/Chemistry Elective	3-5
HUMN ELECT	Humanities Elective	3
Total Credits: 12-15.5		

This is a sample curriculum. Please refer to the Undergraduate Catalog at scranton.edu/catalog.