

ABOUT THE MAJOR

Physiology, the foundation of biomedical education, explores how living organisms function at molecular, cellular, and organismal levels. Students gain hands-on laboratory experience with cutting-edge techniques and engage in one-on-one research with faculty, preparing them for careers in healthcare, research, and biotechnology.

CONTACT US

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OUTCOMES & OPPORTUNITIES

- Physiology majors gain hands-on experience through at least five semesters of lab courses and faculty-mentored research, developing advanced skills for careers in healthcare, research, and biotechnology.
- This major provides a strong foundation for healthcare careers, including medicine, veterinary science, dentistry, physical therapy, and physician assistant roles.
- Students are prepared for advanced degrees in biomedical sciences, epidemiology, physiology, pharmacy, pharmacology, and public health.



PHYSIOLOGY

120 Credits

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1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
BIOL 141/141L	General Biology w/lab	4.5
CHEM 112/112L	General Chemistry w/lab	4.5
WRTG 107	Composition	3
PHIL 120	Introduction to Philosophy	3
First Year Seminar		0
Total Credits: 15		

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
BIOL 142/142L	General Biology w/lab	4.5
CHEM 113/113L	General Chemistry w/lab	4.5
FREE ELECT	Free Elective	3
HUMN ELECT	Humanities Elective	3
First Year Seminar		0
Total Credits: 15		

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
PSIO 220	Advanced Human Anatomy and Physiology I Lecture	3
BIOL 110L	Human Anatomy and Physiology I Laboratory	1
CHEM 232/232L	Organic Chemistry w/lab	4.5
MATH 114	Calculus I	4
PHIL 210	Ethics	3
Total Credits: 15.5		

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
PSIO 221	Advanced Human Anatomy and Physiology II Lecture	3
BIOL 111L	Human Anatomy and Physiology II Laboratory	1
PSIO 290	Core Concepts in Physiology Seminar	1
CHEM 233/233L	Organic Chemistry w/lab	4.5
S/BH ELECT	Social/Behavioral Elective	3
T/RS 121	Theology I: Introduction to the Bible	3
Total Credits: 15.5		

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
PSIO 320/320L	Cellular and Integrative Physiology w/lab	6
PHYS 120/120L	General Physics I w/lab	4
S/BH ELECT	Social Behavioral Elective	3
T/RS 122	Theology II: Introduction to Christian Theology	3
Total Credits: 16		

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
PSIO/BIOL ELECT	Physiology Elective	3
PSIO 390	Experimental Approaches in Physiology Seminar	2
PHYS 121/121L	General Physics II w/lab	4
HUMN ELECT	Humanities Elective	3
FREE ELECT	Free Elective	3
Total Credits: 15		

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
PSIO/BIOL Electives		6
HUMN ELECT	Humanities Elective	3
FREE ELECT	Free Electives	6
Total Credits: 15		

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
PSIO/BIOL Electives		3
PHIL ELECT	Philosophy Elective or	
T/RS ELECT	Theology Elective	3
HUMN ELECT	Humanities Elective	3
FREE ELECT	Free Electives	4
Total Credits: 13		

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