

THE UNIVERSITY OF SCRANTON
COLLEGE OF ARTS & SCIENCES

PHYSIOLOGY

About the Program

Students who major in physiology, the bedrock of biomedical education, learn how living organisms function at many levels of organization from the molecular and cellular level up to the organismal level. Students gain laboratory experience using cutting-edge techniques and have opportunities for one-on-one research with faculty members.



Hear from our physiology students why they chose the physiology major and about their experiences in the program.

Outcomes & Opportunities

- Physiology majors engage in at least 5 semesters of laboratory courses and have the opportunity for faculty-mentored research projects.
- A BS in Physiology prepares students for professional careers such as a physician, physician assistant, veterinarian, dentist, physical therapist, and more.
- A BS in Physiology prepares students for masters and doctoral degree programs in specialties such as biomedical sciences, epidemiology, human or ecological physiology, pharmacy and pharmacology, and public health.

Ranked #8 nationally
for “Best Science Labs”
by The Princeton Review



SUCCESS AHEAD

PHYSIOLOGY CURRICULUM

	Department & Number - Descriptive Title of Course	Fall Cr.	Spr. Cr.
FIRST YEAR			
MAJOR (GE NSCI)	BIOL 141 - (E) (FYOC, FYDT Lab only) General Biology with Lab ¹ – BIOL 142 - (E) (FYOC, FYDT Lab only) General Biology with Lab ¹	4.5	4.5
COGNATE	CHEM 112-113 - (E) General & Analytical Chemistry – CHEM 112L-113L - General & Analytical Chemistry Laboratory	4.5	4.5
GE WRTG	WRTG 107 - (FYW) Composition	3	
GE ELECT	FREE ELECT - Free Elective		3
GE PHIL	PHIL 120 - Introduction to Philosophy	3	
GE HUMN	HUMAN ELECT - Humanities Elective		3
GE FSEM	First Year Seminar ²		

15 15

SECOND YEAR

MAJOR	PSIO 220 - Advanced Human Anatomy & Physiology I/PSIO 220L - Advanced Human Anatomy & Physiology I Laboratory – PSIO 221 - Advanced Human Anatomy & Physiology II/ PSIO 221L - Advanced Human Anatomy & Physiology II Laboratory	5	5
COGNATE	CHEM 232 - (E) Organic Chemistry/CHEM 232L - Organic Chemistry Laboratory – CHEM 233 - (E) Organic Chemistry/ CHEM 233L - Organic Chemistry Laboratory	4.5	4.5
GE QUAN	MATH 114 - (Q) Calculus I	4	
GE S/BH	S/BH ELECT - Social/Behavioral Elective		3
GE PHIL - T/RS	PHIL 210 - Ethics – T/RS 121 - Theology I: Introduction to the Bible	3	3

16.5 16.5

THIRD YEAR

MAJOR	PSIO 320 - Cellular & Integrative Physiology/ PSIO 320L - (EPW) Cellular & Integrative Physiology Laboratory	6	
MAJOR	PSIO/BIOELECT - Physiology/Biology Elective ³		3
MAJOR	PSIO 390 - Experimental Approaches in Physiology Seminar		2
COGNATE	PHYS 120/PHYS 120L - (E) General Physics I – PHYS 121/PHYS 121L - (E) General Physics II	4	4
GE S/BH	S/BH ELECT - Social Behavioral Elective		3
GE HUMN	HUMAN ELECT - Humanities Elective		3
GE T/RS	T/RS 122 - Theology II: Introduction to Christian Theology	3	
GE ELECT	FREE ELECT - Free Elective		3

16 15

	Department & Number - Descriptive Title of Course	Fall Cr.	Spr. Cr.
FOURTH YEAR			
MAJOR	PSIO/BIOE Electives ³	6	3
GE PHIL OR T/RS	PHIL ELECT - Philosophy Elective or T/RS ELECT - Theology Elective		3
GE HUMN	HUMAN ELECT - Humanities Electives	3	3
GE ELECT	FREE ELECT - Free Electives	6	3
		15	12

Total: 120 Credits



admissions.scranton.edu/physio

CONTACT INFORMATION

Terrence Sweeney, Ph.D., FAPS, Physiology Program Director
Tel: 570.941.7623 • Email: terrence.sweeney@scranton.edu

1.888.SCRANTON or visit admissions.scranton.edu

¹ Successful completion of BIOL 141 L/ BIOL 142 L satisfies the EPI digital and oral requirements.

² The selection of a First Year Seminar is likely also to fulfill a General Education course requirement. Thus, the First Year Seminar should not add any extra credits to the major.

³ PSIO electives are divided into three domains: Molecular & Cellular; Systems; and Comparative. In fulfilling their twelve Physiology elective credits, Physiology majors must include at least three credits from each domain. These elective credits also must include at least one course that includes in-class oral presentations as part of its curriculum. With the approval of the Program Director, other research experiences may substitute for the oral presentation requirements.