

B.A. in BIOLOGY

Pre-Physical Therapy Advisement Area

The following degree program will fulfill the admissions requirements for most physical therapy schools in the United States, including our affiliates Thomas Jefferson University and Drexel-Hahnemann University. Students are urged to consult with their pre-PT advisor for guidance in selecting courses for specific institutions.

Students interested in Physical Therapy may elect to pursue the more general BA in Biology curriculum.

These students should work closely with their advisor to insure that they complete the standard pre-requisites for Physical Therapy program admission.

Biology Core Requirement (26 cr hrs)				Chemistry Requirement (8 cr hrs)			
50-114	Concepts in Biology I	4	<input type="checkbox"/>	52-115	Chem for the Sciences I	4	<input type="checkbox"/>
50-115	Concepts in Biology II	4	<input type="checkbox"/>	52-116	Chem for the Sciences II	4	<input type="checkbox"/>
50-242	Microbiology	4	<input type="checkbox"/>	Physics Requirement (8 cr hrs)			
50-271	Cell Biology	4	<input type="checkbox"/>				
50-332	Genetics	3	<input type="checkbox"/>	54-111	Intro Physics I*	4	<input type="checkbox"/>
50-351	Ecology	3	<input type="checkbox"/>	54-112	Intro Physics II*	4	<input type="checkbox"/>
Preferred Physiology Requirement				Mathematics Requirement (6-9 cr hrs)			
50-479	Integrated Physiology Lab	1	<input type="checkbox"/>	53-141	Intro Statistics	3	<input type="checkbox"/>
50-474	Vert. Systems Physiology	3	<input type="checkbox"/>	<i>Option 1</i>			
Scheduled concurrently with 50.479. Offered even-number falls.				53-113	Precalculus	OR	<input type="checkbox"/>
Preferred Biology Electives (9 cr hrs)				53-116	Tech Algebra	OR	<input type="checkbox"/>
50-212	Vertebrate Zoology*	3	<input type="checkbox"/>	53-123	Essentials of Calculus	3	<input type="checkbox"/>
50-233	Human Genetics*	3	<input type="checkbox"/>	<i>Option 2</i>			
50-331	Embryology	3	<input type="checkbox"/>	53-112	Trigonometry	AND	3
50-333	Molecular Biology	3	<input type="checkbox"/>	53-109	College Algebra	3	<input type="checkbox"/>
50-342	Medical Microbiology	3	<input type="checkbox"/>	Other Biological Sciences (8 cr hrs)			
50-343	Immunology	3	<input type="checkbox"/>	50-173	Anatomy & Physiology I	4	<input type="checkbox"/>
50-361	Comparative Vert Anat*	3	<input type="checkbox"/>	50-174	Anatomy & Physiology II	4	<input type="checkbox"/>
50-364	Vertebrate Histology*	3	<input type="checkbox"/>	Biology Electives Cont'd (9 cr hrs)			
50-390	Undergrad Research Bio	3	<input type="checkbox"/>	50-476	Neurophysiology*	3	<input type="checkbox"/>
50-411	Radiation Biology	3	<input type="checkbox"/>	50-490	Internship in Biology*	3	<input type="checkbox"/>
50-431	Developmental Biology	3	<input type="checkbox"/>	50-493	Honors Independent Study 1	3	<input type="checkbox"/>
50-442	Virology	3	<input type="checkbox"/>	50-494	Honors Independent Study 2	3	<input type="checkbox"/>
50-464	Functional Neuroanatomy*	3	<input type="checkbox"/>				
50-472	Animal Cell Physiology	3	<input type="checkbox"/>				

*First Choice Electives. Others should be considered Second Choice Electives. The following courses do NOT count as biology electives: 50.100, 50.101, 50.102, 50.107, 50.205, 50.230, 50.231, 50.250, 50.254, 50.275, 50.366.
 1. A maximum of 3 cr hr of 50-490 may be applied as biology elective credit toward the degree.
 2. A maximum of 6 cr hr from among 50-390, 50-391, 50-490, 50-493 and 50-494 may be applied as biology elective credit toward the degree.

General Education Requirements

Two cultural diversity courses (6 cr hr) are required. These can fulfill either group A or group B requirements. Designate these with a + symbol.

Foreign Language Requirement A second-level or higher foreign language is required (10.101, 11.101, 12.101, 13.102, 14.102, 18.102, 19.102 or higher). These credits may be used to satisfy Communication or Group A requirements.

The Communication elective course OR the Values/Ethics course can fulfill a group A or a group B requirement.

Communication (9 cr hrs)

20-101	English Composition 1	3	<input type="checkbox"/>
20-201	English Composition 2	3	<input type="checkbox"/>
_____	_____	3	<input type="checkbox"/>

Communication requirements vary between PT schools so consult with your advisor.

Suggested communication electives include: foreign language course; 25-103 Public Speaking; 25-104 Interpersonal Communication;

Quantitative-Analytical Reasoning (3 cr hrs)
 Fulfilled by mathematics requirement for major.

Values, Ethics, ... (3 cr hrs)
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GROUP C. Natural Science and Mathematics (12 cr hrs)

Fulfilled by chemistry, physics, and mathematics requirements for the major.

GROUP A. Humanities (12 cr hrs)

_____	Foreign language	<input type="checkbox"/>
_____	Intro to Literature	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>

GROUP B. Social Sciences (12 cr hrs)

48-101	General Psychology	<input type="checkbox"/>
48-210	Life-Span Psychology	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>

Fitness and Recreational Skills (2 cr hrs)

_____	Intro to Nutrition (1)	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
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Free Electives. List free elective courses here. Total number of cr hrs must be at least 120.

Abnormal Psychology (48-335) may be required by some programs and will count as a free elective. Discuss this requirement with your advisor during your freshman year.

Intro to Nutrition (2)
