

BACHELOR OF SCIENCE IN BIOLOGY/BACHELOR OF SCIENCE IN PSYCHOLOGICAL SCIENCE

This program provides an integrated dual degree program leading to the Bachelor of Science in Biology and the Bachelor of Science in Psychological Science while maintaining the integrity and program content of each individual degree program.

This program has two main target audiences:

1. Pre-health students (pre-MD, pre-clinical psychologist or psychiatrist) who are interested in neurological or behavioral issues. A challenging dual degree program will be an asset in the professional school application process, and this program will provide an excellent preparation for the MCAT.
2. Students interested in moving on to graduate school in studies at the interface of biology and psychology, such as neuroscience, brain science, or cognitive science.

Required Courses

Code	Title	Credit Hours
Biology Requirements (34)		
BIOL 107	General Biology Lectures	3
BIOL 109	General Biology Laboratory	1
BIOL 115	Human Biology	3
BIOL 117	Human Biology Laboratory	1
BIOL 210	Microbiology	3
BIOL 214	Genetics	3
BIOL 225	Microbiology Laboratory	2
BIOL 401	Introductory Biochemistry	3
BIOL 402	Metabolic Biochemistry	3
BIOL 404	Biochemistry Laboratory	3
or BIOL 431	Animal Physiology Laboratory	
or BIOL 446	Cell Biology Laboratory	
BIOL 430	Human Physiology	3
BIOL 445	Cell Biology	3
BIOL 451	Biological Literature	2
BIOL 495	Biology Colloquium	1
Biology Electives (6)		
Select six credit hours		6
Chemistry Requirements (18)		
CHEM 124	Principles of Chemistry I with Laboratory	4
CHEM 125	Principles of Chemistry II with Laboratory	4
CHEM 237	Organic Chemistry I	4
CHEM 239	Organic Chemistry II	3
CHEM 247	Analytical Chemistry	3
Physics Requirements (11)		
PHYS 123	General Physics I: Mechanics	4
PHYS 221	General Physics II: Electricity and Magnetism	4
PHYS 224	General Physics III for Engineers	3
Mathematics Requirements (13-14)		
MATH 151	Calculus I	5
MATH 152	Calculus II	5
MATH 425	Statistical Methods	3-4

or PSYC 203	Undergraduate Statistics for the Behavioral Sciences	
Psychological Science Requirements (28)		
PSYC 204	Research Methods in Behavioral Science	4
PSYC 221	Introduction to Psychological Science	3
PSYC 301	Industrial Psychology	3
or PSYC 303	Introduction to Psychopathology	
PSYC 310	Social Psychology	3
PSYC 320	Applied Correlation and Regression	3
or PSYC 409	Psychological Testing	
PSYC 414	Neural and Biological Bases of Behavior	3
PSYC 426	Cognitive Science	3
PSYC 435	Child Development	3
or PSYC 436	Adult Development	
or PSYC 312	Human Motivation and Emotion	
or PSYC 423	Learning Theory	
PSYC 485	Senior Capstone Project I	3
or PSYC 312	Human Motivation and Emotion	
or PSYC 423	Learning Theory	
or PSYC 435	Child Development	
or PSYC 436	Adult Development	
Psychological Science Electives (9)		
Select nine credit hours		9
Introduction to the Profession (2-3)		
BIOL 100	Introduction to the Profession	2-3
or PSYC 100	Introduction to the Profession	
Computer Science Requirement (2)		
CS 105	Introduction to Computer Programming	2
or CS 110	Computing Principles	
Interprofessional Projects (IPRO) (6)		
See Illinois Tech Core Curriculum, section E		6
Humanities and Social Sciences Requirements (12)		
See Illinois Tech Core Curriculum, sections B and C ¹		12
Total Credit Hours		141-143

¹ B.S. Biology/B.S. Psychological Science students have a reduced humanities and social sciences requirement because six credit

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hours of social sciences are satisfied by six credit hours of psychology "S" designated courses.

Bachelor of Science in Biology/ Bachelor of Science in Psychological Science Curriculum

Humanities Elective (300+)	3 Psychological Science Elective	3
18		17

Total Credit Hours: 141-143

			Year 1
Semester 1	Credit Hours	Semester 2	Credit Hours
BIOL 100 or PSYC 100	2-3	BIOL 115	3
BIOL 107	3	BIOL 117	1
PSYC 221	3	PSYC 301	3
CHEM 124	4	CHEM 125	4
MATH 151	5	MATH 152	5
		CS 105 or 110	2
17-18			18
			Year 2
Semester 1	Credit Hours	Semester 2	Credit Hours
BIOL 109	1	BIOL 210	3
BIOL 214	3	BIOL 225	2
PSYC 310	3	Psychological Science Elective	3
CHEM 237	4	CHEM 239	3
PHYS 123	4	PHYS 221	4
Humanities 200-level Course	3	Humanities Elective (300+)	3
18			18
			Year 3
Semester 1	Credit Hours	Semester 2	Credit Hours
BIOL 445	3	BIOL 430	3
Biology Elective	3	BIOL 495	1
PSYC 414	3	PSYC 204	4
PHYS 224	3	PSYC 320 or 409	3
IPRO Elective I	3	MATH 425 or PSYC 203	3-4
Social Sciences Elective	3	IPRO Elective II	3
18			17-18
			Year 4
Semester 1	Credit Hours	Semester 2	Credit Hours
BIOL 401	3	BIOL 402	3
BIOL 404, 431, or 446	3	BIOL 451	2
Psychological Science Elective	3	CHEM 247	3
PSYC 426	3	PSYC 435 or 436	3
Biology Elective	3	PSYC 485	3