

# 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
<b>Biology Requirements (34)</b>		
BIOL 107	General Biol Lecture	3
BIOL 109	General Biology Lab	1
BIOL 115	Human Biology	3
BIOL 117	Human Biology Lab	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
<b>Biology Electives (6)</b>		
Select six credit hours		
<b>Chemistry Requirements (18)</b>		
CHEM 124	Princ of Chemistry I with Lab	4
CHEM 125	Prin of Chemistry II w/Lab	4
CHEM 237	Organic Chemistry I	4
CHEM 239	Organic Chemistry II	3
CHEM 247	Analytical Chemistry	3
<b>Physics Requirements (11)</b>		
PHYS 123	General Physics I: Mechanics	4
PHYS 221	Gen Physics II: Elect&Magntism	4
PHYS 224	Gen Physics III for Engnrs	3
<b>Mathematics Requirements (13-14)</b>		
MATH 151	Calculus I	5
MATH 152	Calculus II	5
MATH 425	Statistical Methods	3-4
or PSYC 203	Undergrad Stats Bhvrl Sci	
<b>Psychological Science Requirements (28)</b>		
PSYC 204	Rsrch Method in Behavioral Sci	4

PSYC 221	Intro to Psychological Science	3
PSYC 301	Industrial Psychology	3
or PSYC 303	Intro to Psychopathology	
PSYC 310	Social Psychology	3
PSYC 320	Applied Correlation/Regression	3
or PSYC 409	Psychological Testing	
PSYC 414	Neural & Biol Bases Behavior	3
PSYC 426	Cognitive Science	3
PSYC 435	Child Development	3
or PSYC 436	Adult Development	
PSYC 485	Senior Capstone Project I	3
<b>Psychological Science Electives</b>		<b>(6)</b>
Select six credit hours		6
<b>Introduction to the Profession</b>		<b>(3)</b>
BIOL 100	Intro to Profession	3
or PSYC 100	Intro to Profession	
<b>Computer Science Requirement</b>		<b>(2)</b>
CS 105	Intro to Computer Programming	2
or CS 110	Computing Principles	
<b>Interprofessional Projects (IPRO)</b>		<b>(6)</b>
See Illinois Tech Core Curriculum, section E		6
<b>Humanities and Social Sciences Requirements</b>		<b>(15)</b>
See Illinois Tech Core Curriculum, sections B and C <sup>1</sup>		15
<b>Total Credit Hours</b>		<b>142-143</b>

<sup>1</sup> B.S. Biology/B.S. Psychological Science students have a reduced humanities and social sciences requirement because six credit 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 Humanities or Social Sciences Elective	3
		<b>18</b>
		<b>17</b>

**Total Credit Hours: 142-143**

Semester 1		Semester 2		Year 1
	Credit Hours		Credit Hours	Credit Hours
BIOL 100 or PSYC 100	3	BIOL 115	3	3
BIOL 107	3	BIOL 117	1	1
PSYC 221	3	PSYC 301	3	3
CHEM 124	4	CHEM 125	4	4
MATH 151	5	MATH 152	5	5
		CS 105 or 110	2	2
		<b>18</b>		<b>18</b>

Semester 1		Semester 2		Year 2
	Credit Hours		Credit Hours	Credit Hours
BIOL 109	1	BIOL 210	3	3
BIOL 214	3	BIOL 225	2	2
PSYC 310	3	Psychological Science Elective	3	3
CHEM 237	4	CHEM 239	3	3
PHYS 123	4	PHYS 221	4	4
Humanities 200-level Course	3	Humanities Elective (300+)	3	3
		<b>18</b>		<b>18</b>

Semester 1		Semester 2		Year 3
	Credit Hours		Credit Hours	Credit Hours
BIOL 445	3	BIOL 430	3	3
Biology Elective	3	BIOL 495	1	1
PSYC 414	3	PSYC 204	4	4
PHYS 224	3	PSYC 320 or 409	3	3
I PRO Elective I	3	MATH 425 or PSYC 203	3-4	3-4
Social Sciences Elective	3	I PRO Elective II	3	3
		<b>18</b>		<b>17-18</b>

Semester 1		Semester 2		Year 4
	Credit Hours		Credit Hours	Credit Hours
BIOL 401	3	BIOL 402	3	3
BIOL 404, 431, or 446	3	BIOL 451	2	2
Psychological Science Elective	3	PSYC 435 or 436	3	3
PSYC 426	3	PSYC 485	3	3
CHEM 247	3	Biology Elective	3	3