

BACHELOR OF SCIENCE IN BIOCHEMISTRY/BACHELOR OF SCIENCE IN PSYCHOLOGICAL SCIENCE

Required Courses

| Code | Title | Credit Hours |
|--|--------------------------------|--------------|
| Biology Requirements (29) | | |
| 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 401 | Introductory Biochemistry | 3 |
| BIOL 402 | Metabolic Biochemistry | 3 |
| BIOL 404 | Biochemistry Laboratory | 3 |
| BIOL 445 | Cell Biology | 3 |
| BIOL 451 | Biological Literature | 2 |
| BIOL 495 | Biology Colloquium | 1 |
| or CHEM 485 | Chemistry Colloquium | |
| Dual Degree Elective (3) | | |
| Select three credit hours from the following: | | |
| BIOL 420 | Population Genetics | 3 |
| BIOL 430 | Human Physiology | 3 |
| BIOL 475 | Health/Disease in Mod Society | 3 |
| FDSN 401 | Nutrition, Metabolism & Health | 3 |
| Biochemistry Elective (2-3) | | |
| Select two to three credit hours | | |
| Chemistry Requirements (26) | | |
| 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 240 | Organic Chemistry Lab | 2 |
| CHEM 247 | Analytical Chemistry | 3 |
| CHEM 343 | Physical Chemistry I | 3 |
| CHEM 438 | Physical Biochemistry | 3 |
| or CHEM 344 | Physical Chemistry II | |
| Physics Requirements (8) | | |
| PHYS 123 | General Physics I: Mechanics | 4 |
| PHYS 221 | Gen Physics II: Elect&Magntism | 4 |
| Mathematics Requirements (17-18) | | |
| MATH 151 | Calculus I | 5 |
| MATH 152 | Calculus II | 5 |
| MATH 251 | Multivariate & Vector Calculus | 4 |
| MATH 425 | Statistical Methods | 3-4 |
| or PSYC 203 | Undergrad Stats Bhvrl Sci | |
| Psychological Science Requirements (28) | | |
| 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 312 | Human Motivation and Emotion | 3 |
| or PSYC 423 | Learning Theory | |
| or PSYC 435 | Child Development | |
| or PSYC 436 | Adult Development | |
| PSYC 320 | Applied Correlation/Regression | 3 |
| or PSYC 409 | Psychological Testing | |
| PSYC 414 | Neural & Biol Bases Behavior | 3 |
| PSYC 426 | Cognitive Science | 3 |
| 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 ¹ | | 9 |
| Introduction to the Profession | | (2-3) |
| BIOL 100 | Intro to Profession | 2-3 |
| or PSYC 100 | Intro to Profession | |
| Computer Science Requirement | | (2) |
| CS 105 | Intro 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 | | (12-21) |
| See Illinois Tech Core Curriculum, sections B and C ¹ | | 12-21 |

Minimum degree credits required: 144

¹ B.S. Biochemistry/B.S. Psychological Science students may apply a maximum of three psychology courses to both the social sciences requirements and the psychology electives specified for the psychological science degree requirements (psychology electives must be 300-level and above). At least one of the social science "S" courses must be a non-psychology course.

Bachelor of Science in Biochemistry/Bachelor of Science in Psychological Science Curriculum - Eight Semester Plan

| | | Year 1 | |
|--|--------------|---|--------------|
| Semester 1 | Credit Hours | Semester 2 | Credit Hours |
| BIOL 100 | 2 | BIOL 115 | 3 |
| BIOL 107 | 3 | BIOL 117 | 1 |
| BIOL 109 | 1 | CHEM 125 | 4 |
| CHEM 124 | 4 | PHYS 123 | 4 |
| MATH 151 | 5 | PSYC 301 | 3 |
| PSYC 221 | 3 | Humanities 200-level Course | 3 |
| 18 | | 18 | |
| | | Year 2 | |
| Semester 1 | Credit Hours | Semester 2 | Credit Hours |
| BIOL 214 | 3 | BIOL 210 | 3 |
| CHEM 237 | 4 | MATH 251 | 4 |
| MATH 152 | 5 | PHYS 221 | 4 |
| PSYC 310 | 3 | PSYC 204 | 4 |
| Humanities Elective (300+) | 3 | Social Sciences Elective ¹ | 3 |
| 18 | | 18 | |
| | | Year 3 | |
| Semester 1 | Credit Hours | Semester 2 | Credit Hours |
| BIOL 445 | 3 | CHEM 239 | 3 |
| CHEM 247 | 3 | CHEM 240 | 2 |
| PSYC 320 | 3 | CS 105 | 2 |
| PSYC 414 | 3 | MATH 425 | 3 |
| I PRO Elective I | 3 | PSYC 435 | 3 |
| Social Sciences Elective (300+) ¹ | 3 | Biochemistry Elective | 2 |
| | | I PRO Elective II | 3 |
| 18 | | 18 | |
| | | Year 4 | |
| Semester 1 | Credit Hours | Semester 2 | Credit Hours |
| BIOL 401 | 3 | BIOL 402 | 3 |
| BIOL 404 | 3 | BIOL 451 | 2 |
| CHEM 343 | 3 | BIOL 495 | 1 |
| PSYC 426 | 3 | CHEM 438 | 3 |
| Humanities Elective (300+) | 3 | PSYC 485 | 3 |
| Social Sciences Elective (300+) ¹ | 3 | Dual Degree Elective ² | 3 |
| | | Humanities or Social Sciences Elective ¹ | 3 |
| 18 | | 18 | |

Total Credit Hours: 144

¹ B.S. Biochemistry/B.S. Psychological Science students may apply a maximum of three psychology courses to both the social sciences requirements and the psychology electives specified for the psychological science degree requirements (psychology electives must be 300-level and above). At least one of the social science "S" courses must be a non-psychology course.

² Select one course from the following: BIOL 420, BIOL 430, BIOL 475, or FDSN 401.

Bachelor of Science in Biochemistry/Bachelor of Science in Psychological Science Curriculum - Nine Semester Plan

| Semester 1 | | Semester 2 | | Year 1 |
|------------|--------------|------------|--------------|--------------|
| | Credit Hours | | Credit Hours | Credit Hours |
| BIOL 100 | 2 | BIOL 115 | 3 | 3 |
| BIOL 107 | 3 | BIOL 117 | 1 | 1 |
| CHEM 124 | 4 | CHEM 125 | 4 | 4 |
| MATH 151 | 5 | PHYS 123 | 4 | 4 |
| PSYC 221 | 3 | PSYC 303 | 3 | 3 |
| | | 17 | | 15 |

| Semester 1 | | Semester 2 | | Year 2 |
|-----------------------------|--------------|--|--------------|--------------|
| | Credit Hours | | Credit Hours | Credit Hours |
| BIOL 109 | 1 | BIOL 210 | 3 | 3 |
| BIOL 214 | 3 | PHYS 221 | 4 | 4 |
| MATH 152 | 5 | PSYC 204 | 4 | 4 |
| PSYC 203 | 4 | Humanities/Social Sciences Elective ¹ | 3 | 3 |
| Humanities 200-level Course | 3 | | | |
| | | 16 | | 14 |

| Semester 1 | | Semester 2 | | Year 3 |
|------------------|--------------|-----------------------------------|--------------|--------------|
| | Credit Hours | | Credit Hours | Credit Hours |
| CHEM 237 | 4 | CHEM 239 | 3 | 3 |
| MATH 251 | 4 | CHEM 240 | 2 | 2 |
| PSYC 320 | 3 | PSYC 310 | 3 | 3 |
| PSYC 414 | 3 | PSYC 435 | 3 | 3 |
| I PRO Elective I | 3 | Biochemistry Elective | 2 | 2 |
| | | Dual Degree Elective ² | 3 | 3 |
| | | 17 | | 16 |

| Semester 1 | | Semester 2 | | Year 4 |
|---------------------------------------|--------------|--|--------------|--------------|
| | Credit Hours | | Credit Hours | Credit Hours |
| BIOL 401 | 3 | BIOL 402 | 3 | 3 |
| CHEM 247 | 3 | BIOL 451 | 2 | 2 |
| CHEM 343 | 3 | CHEM 438 | 3 | 3 |
| CS 105 | 2 | Social Sciences Elective (300+) ¹ | 3 | 3 |
| PSYC 426 | 3 | Humanities Elective (300+) | 3 | 3 |
| Social Sciences Elective ¹ | 3 | I PRO Elective II | 3 | 3 |
| | | 17 | | 17 |

| Semester 1 | | Semester 2 | | Year 5 |
|----------------------------|--------------|------------|--------------|--------------|
| | Credit Hours | | Credit Hours | Credit Hours |
| BIOL 404 | 3 | | | |
| BIOL 445 | 3 | | | |
| BIOL 495 | 1 | | | |
| PSYC 485 | 3 | | | |
| Humanities Elective (300+) | 3 | | | |

| | |
|--|-----------|
| Social Sciences Elective (300+) ¹ | 3 |
| | 16 |

Total Credit Hours: 145

- ¹ B.S. Biochemistry/B.S. Psychological Science students may apply a maximum of three psychology courses to both the social sciences requirements and the psychology electives specified for the psychological science degree requirements (psychology electives must be 300-level and above). At least one of the social science "S" courses must be a non-psychology course.
- ² Select one course from the following: BIOL 420, BIOL 430, BIOL 475, or FDSN 401.