

B.S. BIOLOGY PRE-PROFESSIONAL (120 Credits)
 Science, Mathematics and Computer Science Department
 Revised July 2022

A. CORE REQUIRED COURSES (39 Credits)

ENGL 160 Composition/Rhetoric (3)	RST 112 (3)	PHIL 113 (3)
ENGL 180 World Literature (3)	RST Elective (3)	PHIL Elective (3)
ENGL Elective (3)	Modern Language I (3)	Global History (3)
Fine Arts Elective (3)	Modern Language II (3) or	History Elective (3)
Social Science Elective (3)	Elective (3)	

B. REQUIRED MAJOR COURSES (52 Credits)

C. ELECTIVE MAJOR COURSES (choose 29 Credits)

BIOL 150 + L General Biology I (4) (F) (SI)	BIOL 222 Medical Terminology (3) (F/S)
BIOL 151 + L General Biology II (4) (S) (SII)	BIOL 281 Introduction to Biotechnology (3) (F)
BIOL 235 + L Microbiology (4) (F)	BIOL 300 + L Human Gross Anatomy (4) (F)
BIOL 410 Science Literary Capstone (2) (F/S)	BIOL 301 + L Human Physiology (4) (S)
BIOL 421 + L Biochemistry I (4) (F)	BIOL 302 Bioinformatics (3) (S-Odd)
BIOL 440 + L Molecular and Cellular Biology (4) (S)	BIOL 305 Fundamental Neuroscience (3) (S)
OR	BIOL 332 + L Immunology (4) (S)
BIOL 446 + L Genetics (4) (F)	BIOL 383 Emerging Medicines & Technology (3)(S)
CHEM 131 + L General Chemistry I (4) (F) (SI)	BIOL 401 Cell Culture (3) (F)
CHEM 132 + L General Chemistry II (4) (S) (SII)	BIOL 422 Biochemistry II (3) (S)
CHEM 221 + L Organic Chemistry I (4) (F)	BIOL 440 + L Molecular & Cellular Biology (4) (S)
CHEM 222 + L Organic Chemistry II (4) (S)	BIOL 446 + L Genetics (4) (F)
*MATH 155 Statistics (3) (F/S) (SII)	BIOL 454 Undergraduate Research (1, 2, or 3) (F)
**MATH 170 Application Calculus to the Life Sciences (3) (S) (SI)	BIOL 497C Human Evolution (3) (SI) (Online)
OR	BIOL 498 Biology Internship (1, 2, or 3) (F/S)
MATH 211 Calculus I (4) (S)	BIOL 499 Independent Study (1, 2, or 3) (F/S)
PHYS 303 + L General Physics I (4) (F)	CHEM 312 Environmental Chemistry (3) (F)
PHYS 304 + L General Physics II (4) (S)	CHEM 313 Elements of Medicinal Chemistry (3) (S)
	CHEM 398 + L Chemical Analysis (3) (S-Even)
	CHEM 498 Internship (3)
	CHEM 499 Independent Study (1, 2, or 3) (F/S)
	MATH 211 Calculus I (4) (S)
	MATH 212 Calculus II (4) (F)
	MATH 213 Calculus III (4) (S)

Math Placement Test: all students must take this test unless they have AP or dual enrollment credits which meet **all** required courses for the major.

< 40: must take MATH 095 before any other math course (credits do not count towards graduation)

≥40: eligible for MATH 155, MATH 160 (pre-requisite course for MATH 211)

≥75: eligible for all math courses including MATH 211 (Calculus I)

*you may need to take MATH 095 prior to taking MATH 155 requirement depending on Math Placement Test

** you may need to take MATH 095, MATH 160 prior to MATH 170 requirement depending on Math Placement Test

One or two semesters of required Modern Language depends on Foreign Language Placement Exam.

F: fall semester; S: spring semester; SI: summer I semester; SII; summer II semester; F/S: fall or spring semester