

BIOLOGY – Secondary Education (BS* and BA)

BS DEGREE – 32 COURSE UNITS

MAJOR COURSE REQUIREMENTS

Fulfill via completion of course requirements in three categories.

Core Courses	Major Options	Correlate Courses
BIO 099 – Orientation to Biology (zero course units)	Biology option course	CHE 201 – General Chemistry I
BIO 201 – Foundations of Biological Inquiry	Biology option course	CHE 202 – General Chemistry II
BIO 211 – Cell Biology and Biochemistry	Biology option course	CHE 331 – Organic Chemistry I*
BIO 221 – Ecology & Field Biology	Organisms & Evolution biology option course	CHE 332 – Organic Chemistry II*
BIO 231 – Genetics		PHY 201 – General Physics I*
BIO 498 – Biology Seminar (Capstone)		MAT 127 – Calculus A
SED 099 – Education Seminar (zero course units)		One of the following:*
		MAT 128 – Calculus B
		MAT 200 – Discrete Mathematics
		STA 215 – Statistical Inference
EFN 299 – Schools and Communities		
SED 224 – Adolescent Learning & Development		
SPE 103 – Social & Legal Foundations of Special Education		
SED 399 – Pedagogy in Secondary Education (1.5 units, part of CP 1 block)		
PHY 390 – Methods of Teaching Science (part of CP 1 block)		
RAL 328 – Reading in Secondary Education (0.5 units, part of CP 1 block)		
BIO 490 – Student Teaching in Biology (2 course units, part of CP 2 block)		
SED 498 – Education Capstone (part of CP 2 block)		

* BS only

LIBERAL LEARNING REQUIREMENTS

Fulfill via completing course requirements in one of five options.*

Option 1: Menu option of Broad Areas of Human Inquiry

Arts & Humanities	Social Science & History	Natural Science & Quantitative Reasoning
Literary, Visual, or Performing Arts	Behavioral, Social, or Cultural Perspectives <i>(satisfied by major course)</i>	Natural Science - BIO 201

World Views and Ways of Knowing	Social Changes in Historical Perspective	Quantitative Reasoning - MAT 127
Literary, Visual, or Performing Arts or World Views and Ways of Knowing	Behavioral, Social, or Cultural Perspectives <i>(satisfied by major course)</i>	N.S. or Q.R. - CHE 202

Option 2: Interdisciplinary Concentration

Option 3: Dual Major

Option 4: Double Major

Option 5: Self-Designed Major or Interdisciplinary Concentration

* <https://liberallearning.tcnj.edu/broad-areas-of-human-inquiry-2/>

CIVIC RESPONSIBILITIES, PROFICIENCIES & ELECTIVES

Fulfill via completion of course requirements in three categories.

Civic Responsibilities	Intellectual & Scholarly Growth	Electives
FYC 100 – Community Engaged Learning (zero course units)	IDS 102 – Information Literacy (online tutorial; zero course units)	Elective courses as needed to reach 32 course units
Gender	First-Year Writing (if needed)	
Global Perspectives	First-Year Seminar	
Race & Ethnicity <i>(satisfied by major course)</i>	Second Language (0-2 courses, depending upon background and placement)	

Note: The full list of graduation requirements can be found in the College bulletin and in PAWS.

Effective Fall 2021