

BIOLOGY – SEVEN-YEAR OPTOMETRY PROGRAM

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)	BIO 332 – Biology of the Vertebrates	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		CHE 331 – Organic Chemistry I
BIO 221 – Ecology & Field Biology		CHE 332 – Organic Chemistry II
BIO 231 – Genetics		PHY 121 – Principles of Physics I or PHY 201 – General Physics I
BIO 498 – Biology Seminar (Capstone)		PHY 122 – Principles of Physics II or PHY 202 – General Physics II
		MAT 127 – Calculus A
		STA 215 – Statistical Inference

THE COLLEGE CORE BREADTH REQUIREMENT

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 - PSY 101	Natural Science - BIO 201
Belief Systems	Historical Perspectives	Quantitative Reasoning - MAT 127
Literary, Visual, or Performing Arts or Belief Systems	Behavioral, Social, or Cultural Perspectives or Historical Perspectives	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://collegecore.tcnj.edu/multidisciplinary-perspectives/>

SOCIAL JUSTICE, 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 and Sexuality	First-Year Writing (if needed)	
Global Perspectives	First-Year Seminar	
Race & Ethnicity	Second Language (0-3 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 2025