

BIOLOGY – SECONDARY EDUCATION (BIOL_BS_02)

BS DEGREE – 32 COURSE UNITS

MAJOR COURSE REQUIREMENTS

Fulfill via completion of course requirements in three categories

Core Courses (5)	Major Options (4) Specialization Courses (8) (= 12 course units)	Correlate Courses (7)
BIO 099 – Orientation Seminar (zero-credit)	Biology option course (by advisement)	CHE 201 – General Chemistry I
BIO 201 – Foundations of Biological Inquiry (or BIO 185 – Themes in Biology)	Biology option course (by advisement)	CHE 202 – General Chemistry II
BIO 211 - Biology of the Eukaryotic Cell	Organisms & Evol. Bio option (from approved list)	CHE 331 – Organic Chemistry I
BIO 221 – Ecology & Field Biology BIO 231 – Genetics	SED 224 – Adolescent Learning and Development	CHE 332 – Organic Chemistry II
	EFN 299 – School and Community	PHY 201 – General Physics I
BIO 498 – Biological Seminar (Capstone) or BIO 495 - Independ. Research Capstone	PHY 390 – Meth of Teaching Science	MAT 127 – Calculus A
	SPE 323 – Secondary Content Area Literacy & Inclusion of Students with Disabilities	MAT or STA course (choose from:) MAT 128 – Calculus B MAT 200 – Discrete Mathematics STA 215 – Statistical Inference
	SED 399 – Pedagogy in Secondary Schools	
	EFN 398 – Historical & Political Context of Schools	
	BIO 490 – Student Teaching (2 course units)	
	SED 498 – Capstone	

LIBERAL LEARNING REQUIREMENTS

Fulfill via completing course requirements in one of four options:

Option 1 – Breadth Distribution from Approved List

Arts & Humanities (3 courses)	Social Science & History (1 courses)	Natural Sciences & Quantitative Reasoning <i>(Requirements fulfilled by major course)</i>
Literary, Visual, or Performing Arts course	Behavioral, Social or Cultural Perspectives <i>(satisfied by major courses)</i>	Natural Science course (with lab)
World Views/Ways of Knowing course	Behavioral, Social or Cultural Perspectives <i>(satisfied by major courses)</i>	Quantitative Reasoning course
Literary, Visual, or Performing Arts course or World Views/Ways of Knowing course	Social Changes in Historical Perspective course	Natural Science course or Quantitative Reasoning course

Option 2 – Designated Interdisciplinary Concentration (see www.tcnj.edu/~liberal/concentrations/index.html)

Option 3– Self-designed Interdisciplinary Concentration (see www.tcnj.edu/~liberal/concentrations/index.html)

Option 4 – Second Major

CIVIC RESPONSIBILITIES, PROFICIENCIES & ELECTIVES

Fulfill via completion of course requirements in three categories

Civic Responsibilities	Intellectual & Scholarly Growth	Electives
IDS 103 – Community Engaged Learning <i>(zero-credit requirement)</i>	IDS 102 – Information Literacy online tutorial <i>(zero-credit requirement)</i>	
	(WRI 101 or 102 may be required freshmen year.)	
Concepts – <i>(fulfilled through liberal learning, other courses, or sustained experience)</i>	Writing Intensive Courses	
Gender	FSP First Seminar course <i>(satisfies one liberal learning requirement)</i>	
Global Perspective	Mid-level course <i>(fulfilled by BIO 221)</i>	
Race & Ethnicity	Capstone course <i>(fulfilled by core course)</i>	
	Second Language (0-2 based on placement))	
	Demonstrated proficiency at the low intermediate level (103) if continuation of language studied previously. Two courses (101 & 102), if new language is taken.	

Note: Full list of graduation requirements can be found in The College bulletin and department website.