

# BIOLOGY – EARLY CHILDHOOD EDUCATION

## 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	PHY 103 – Physical, Earth, and Space Sciences
BIO 221 – Ecology & Field Biology	Organisms & Evolution biology option course	MAT 127 – Calculus A
BIO 231 – Genetics		MAT 105 – Mathematical Structures and Algorithms for Educators I or MAT 106 – Mathematical Structures and Algorithms for Educators II
BIO 498 – Biology Seminar (Capstone)		
ELE 099 – Orientation to Elementary/Early Childhood Education (zero course units)		
MTT 202 – Teaching Math in EC/Elem/Mid School		
MST 202 – Methods of Teaching Science, Health, and Technology		
ECE 102 – Multicultural Children’s Literature for ECED		
ECE 201 – Infant through Adolescent Development		
ECE 202 – Theories & Philosophy of Early Childhood Education		
ECE 301 – Advanced Core Block: Integrating & Differentiating Instruction for All Learners (2 course units)		
ECE 490 – Student Teaching (2 course units)		
ECE 498 – Inquiry into Learning		
RAL 222 – Literacy Strategies, Assessment, and Instruction – ECED		
RAL 322 - Literacy Learning Across the Curriculum– ECED		
SOM 203 – Methods of Teaching Social Studies & Multiculturalism		

## THE COLLEGE CORE BREADTH REQUIREMENT

Fulfill via completing course requirements via the double major College Core option.\*

### Option 4: Double Major

Arts & Humanities	Social Science	Multidisciplinary Perspectives
ECE 102 – Multicultural Children’s Literature for ECED ( <i>included in major courses</i> )	ECE 201 – Infant through Adolescent Development ( <i>included in major courses</i> )	Natural Science - BIO 201
Visual or Performing Arts course from approved list	US history course from approved list	Quantitative Reasoning - MAT 127

\* <https://collegecore.tcnj.edu/multidisciplinary-perspectives/>

## SOCIAL JUSTICE, PROFICIENCIES & ELECTIVES

Fulfill via completion of course requirements in three categories.

Social Justice	Intellectual & Scholarly Growth	Electives
FYC 100 – First-Year Community Engagement (zero course units)	IDS 102 – Information Literacy (online tutorial in Canvas; 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 ( <i>included in major courses</i> )		

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

*Effective Fall 2023*