

## BIOLOGY – SEVEN-YEAR MEDICINE 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) | Biology option course (must have lab component)  | CHE 201 – General Chemistry I                                                                                      |
| BIO 201 – Foundations of Biological Inquiry          | Biology option course (must be at the 400 level) | 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<br>PHY 201 – General Physics I                                                |
| BIO 498 – Biology Seminar (Capstone)                 |                                                  | PHY 122 – Principles of Physics II or<br>PHY 202 – General Physics II                                              |
|                                                      |                                                  | MAT 127 – Calculus A                                                                                               |
|                                                      |                                                  | One of the following:<br>MAT 128 – Calculus B<br>MAT 200 – Discrete Mathematics<br>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                               | Natural Science - BIO 201                               |
| Belief Systems                                           | Historical Perspectives                                                    | Quantitative Reasoning - MAT 127                        |
| Literary, Visual or Performing Arts or<br>Belief Systems | Behavioral, Social, or Cultural Perspectives or<br>Historical Perspectives | Natural Sciences or<br>Quantitative Reasoning - 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 – 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                                              | 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