INSTRUCTIONS: If you completed the course at TU, indicate grade received on/in the blank. Alternatively put “AP” if you received Advanced Placement credit, “T” if you received transfer credit for the course, or “Waived” if the requirement was waived. If you are currently enrolled in the course, put “IP” for “in progress.”

Foundation Courses (13 credits)

- BIOL 200/200L or BIOL 203 Biology I: Cellular Biology and Genetics (4)  
- BIOL 202 Biology II: Introduction to Ecology and Evolution (4)  
- BIOL 204 Educational and Career Planning for the Biologist (1)  
- BIOL 309 Principles of Genetics (4)  

Breadth Courses (11-20 credits)

Need both of the following:

- BIOL 205 General Botany (4)  
- BIOL 207 General Zoology (4)  

Need one of the following (Biol 325 strongly recommended):

- BIOL 221/221L and 222/222L Human Anat & Phys I, II (4, 4)  
- or BIOL 325 Animal Physiology (4)  

Need one of the following:

- BIOL 408 Cell Biology (4)  
- or BIOL 409 Molecular Biology (4)  

Elective Course (3-4 credits)

Biology electives selected from other concentrations and approved by adviser

Course taken:  

Ancillary courses (24-30 credits)

Chemistry (13-18 credits)

Need both of the following:

- CHEM 131/131L+132&132L General Chemistry I, II (4, 4)  

Need one of the following (Chem 330 strongly recommended)

- CHEM 330 Essentials of Organic Chemistry (5)  
- or CHEM 331+332 Organic Chemistry I, II (5, 5)  

Physics (4 credits)

- PHYS 211 Gen Physics I (4)  
- or PHYS 241 Gen Physics I Calculus-based (4)  

Mathematics (3-4 credits)

Need one of the following:

- MATH 211 Calculus for Applications (3)  
- MATH 231 Basic Statistics (3)  
- MATH 237 Elementary Biostatistics (4)*  
- MATH 273 Calculus I (4)  

Other Science Coursework (3-4 credits)

Need one of the following:

- ASTR 161 Gen Astronomy (4)  
- GEOL 121 Phys Geology (4)  
- GEOL 123 Hist Geology (4)  
- GEOG 377 Descrip Meteorology (4)  

Science Education Course (3 credits):

- SCIE 380 Teaching Science in the Secondary Schools  

Must also complete other UTeach courses (40 credits) for teaching certification

Details in Undergraduate Catalog and at https://catalog.towson.edu/undergraduate/fisher-science-mathematics/biological-sciences/secondary-education-biology/#requirementstext (scroll to bottom of page)