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

Foundation Courses (13 units)
- BIOL 200+200L or 201 or 203 – Introduction to Cellular Biology and Genetics (4)
- BIOL 202 Introduction to Ecology and Evolution (4)
- BIOL 204 Educational and Career Planning for the Biologist (1)
- BIOL 309 Principles of Genetics (4)

Breadth Courses
- Need: BIOL 208 Biodiversity (3) or both BIOL 205 Gen Botany (4) and BIOL 207 Gen Zoology (4) ______ or ______ & ______
- Need: BIOL 325 Anim Phys (4) or BIOL 436 Plant Phys (3) 
or both BIOL 221/221L and 222/222L Human A&P I, II (4, 4) ______ or ______ & ______
- Need two of the following (BIOL 408 and 409 strongly recommended):
  - BIOL 405 Molecular Ecology and Evolution (4)
  - BIOL 408 Cell Biology (4)
  - BIOL 409 Molecular Biology (4)

Elective Lab Course – need one of the following:
- BIOL 312 Genetics Lab (2) ______
- BIOL 412 Cell Biology Lab (3) ______
- BIOL 410 Molecular Biology Lab (3) ______
- CHEM 356 Biochemistry Lab (2) ______
- BIOL 474 Mol. Tech. Eco. Evo & Cons (3) ______

Other Elective Courses - need two of the following:
- BIOL 318 Microbiology (4) ______
- BIOL 355 Parasitology (3) ______
- BIOL 360 Histology (4) ______
- BIOL 411 Cancer Biology (3) ______
- BIOL 415 Biotechnology (3) ______
- BIOL 419 Environmental Microbiology (3) ______
- BIOL 420 Microbi. of Infectious Disease (3) ______
  - or transfer credit for upper level medical microbiology course ______

Free Elective
Take any 300-400 level BIOL, CHEM, or MBBB course that fulfills requirements for this or any other concentration in Biology
or take BIOL 221/221L+BIOL 222/222L or complete Biol 491 (Ind Study) or Biol 499 (Thesis)

Note – BIOL 389 and BIOL 483 are special topics course numbers. Please consult with your advisor to determine if a particular offering can be applied to your concentration.

Ancillary courses
- Chemistry (13-18 credits) CHEM 131/131L+132/132L Gen Chemistry I, II (4, 4) ______
  - Also take CHEM 330 Essentials of Organic Chemistry (5) ______
    - or CHEM 331+332 Organic Chemistry I, II (5, 5) ______
- Physics (8 credits) PHYS 211+212 General Physics I, II (4, 4) ______
  - or PHYS 241+242 Gen Physics I, II Calculus-Based (4, 4) ______
- Math (3-4 credits) Need one of the following:
  - MATH 237 Elementary Biostatistics (4) ______
  - PSYC 212 Behavioral Statistics (4) ______
  - MATH 273 Calculus I (4) ______
  - MATH 211 Calculus for Applications (3) ______

Some notes about math: Students transferring in MATH 231 Basic Statistics from a community college, other university, or a previous major at TU may substitute it for MATH 237. Honors college students may substitute MATH 233 for this requirement.

Students that might attend graduate school for a career in research should take MATH 211 Calculus for Applications (3) or MATH 273 Calculus I (4). PSYC212 will not satisfy CORE 3 requirement. An additional MATH course will need to be taken to fulfill the requirement.