COURSE REQUIREMENTS FOR THE ECOLOGY, EVOLUTION & CONSERVATION CONCENTRATION

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 both BIOL 205 Gen Botany (4) and BIOL 207 Gen Zoology (4) OR BIOL 208 (3) ______ & ______ or ______

Need: BIOL 325 Anim Phys (4) OR BIOL 436 Plant Phys (3) ______

Need: BIOL 405 Molec Ecol & Evol (4) OR BIOL 408 Cell Bio (4) OR BIOL 409 Molec Bio (4) (BIOL 405 recommended) ______

Elective Courses
Principles of Ecology Elective: Need one of the following:
- BIOL 310 Conservation Biology (4) ______
- BIOL 402 General Ecology (4) ______
- BIOL 406 Limnology (4) ______
- BIOL 435* Plant Ecology (4) ______

Diversity Elective: Need one of the following:
- BIOL 304* Ntrl Hstr-Publ Env Education (3) ______
- BIOL 334 Humans, Science & the Chesapeake (3) ______
- BIOL 347# Marine Biology (3) ______
- BIOL 353 Invertebrate Zoology (4) ______
- BIOL 355 Parasitology (3) ______
- BIOL 371 Animal Behavior (4) ______
- BIOL 413 Evolution (3) ______
- BIOL 432 Vascular Plant Taxonomy (4) ______
- BIOL 444 Wildlife Management (3) ______
- BIOL 446 Tropical Ecology & Conservation (3) ______
- BIOL 447 Tropical Field Ecology (6) ______
- BIOL 452 Wetland Ecology (4) ______
- BIOL 455 Fish Biology (4) ______
- BIOL 456# Ornithology (4) ______
- BIOL 458 Mammalogy (4) ______
- BIOL 461 Entomology (4) ______
- BIOL 467 Herpetology (4) ______
- BIOL 472 Organismal Form and Function Lab (3) ______
- BIOL 473 Ecological Field Methods Lab (3) ______
- BIOL 474 Molec Tech in Evol Ecol Consv Lab (3) ______
- GEOG 221 Intro to Geospatial Technology (3) ______
- PHYS 212/242 Physics II (4) ______
- PHYS 491 Independent Research (3) ______
- One elective from any BIOL concentration (3-4) ______

Also recommended: BIOL 484 – Discussion Seminar in Ecology, Evolution, Behavior and Conservation (1) NOT FOR ELECTIVE CREDIT
* Students must have departmental permission to count BIOL 304 as an elective course prior to enrolling.
# Course is not currently offered but may be offered in the future.

Additional Electives - Take two additional elective courses from either the Principles of Ecology or Diversity lists above

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Students who selected BIOL 208 over BIOL 205 and BIOL 207, must complete one additional concentration elective.

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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 CHEM 131/131L and 132/132L General Chemistry I, II (4, 4) ______/_____, ______/______

Also take CHEM 330 Essentials of Organic Chemistry (5) ______ or CHEM 331 and 332 Organic Chemistry I, II (5, 5) ______

Physics PHYS 211 (4) or PHYS 241 (4) ______

Math (3-4 credits) Need one of the following:
- MATH 237 Elementary Biostatistics (4) ______
- MATH 273 Calculus I (4) ______
- MATH 212 Behavioral Statistics (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.
PSYC212 will not satisfy CORE 3 requirement. An additional MATH course will need to be taken to fulfill the requirement.