Bachelor of Science with a major in Ecology for Environmental Science  
2022 - 2023 Degree Requirements Checklist  

**College of Science Admission Requirement**  
Students must demonstrate proficiency in College Algebra by placing into Math Level 2 or higher through the UNT Math Placement Exam OR completing College Algebra or higher with a grade of C or higher.

**Foundation Course Requirements**  
Students must complete the following courses with a C or higher and at least a 2.5 overall GPA in these courses to take advanced coursework for the degree.

- BIOL 1710: Biology for Science Majors I (3hrs)
- BIOL 1720: Biology for Science Majors II (3hrs)
- BIOL 1760: Biology for Science Majors Lab (2hrs)
- One of the following (students must complete both of these courses for degree, but only one for the foundation):
  - BIOL 2140: Principles of Ecology & Lab (4hrs)
  - BIOL 2251: Biodiversity and Conservation of Animals (3hrs)
- CHEM 1410 & 1430: General Chemistry I & Lab (4hrs)
- CHEM 1420 & 1440: General Chemistry II & Lab (4hrs)
- CHEM 2370 & 3210: Organic Chemistry I & Lab (4hrs)
- One of the following:
  - MATH 1680: Elem. Probability & Statistics (3hrs)
  - MATH 1650: Pre-Calculus (5hrs)

**Major Requirements**  
Students must complete the following courses with a C or higher and at least a 2.0 overall GPA in these courses to graduate with the degree.

- One of the following which was not used already for the foundation:
  - BIOL 2140: Principles of Ecology & Lab (4hrs)
  - BIOL 2251: Biodiversity and Conservation of Animals (3hrs)
- BIOL 3451 & 3452: Genetics & Lab (4hrs)
- BIOL 4051 & 4052: Community Ecology & Lab (4hrs)
- BIOL 4260: Principles of Evolution (3hrs)
- One of the following:
  - BIOL 4503 & 4504: Plant Physiology & Lab (4hrs)
  - BIOL 4505 & 4510: Comparative Animal Physiology & Lab (4hrs)
- Twelve hours of advanced ecology courses. The twelve hours must include at least 2 lectures with associated labs.

**Other Required Courses for Degree**  
- One of the following:
  - MATH 1680: Elem. Probability & Statistics (3hrs) *(double-dips with Foundation math)*
  - MATH 1710: Calculus I (4hrs)
- CHEM 2380 & 3220: Organic Chemistry II & Lab (4hrs)
- PHYS 1410 & 1430: General Physics I & Lab (4hrs)
- PHYS 1420 & 1440: General Physics II & Lab (4hrs)
- TECM 2700: Technical Writing (3hrs) *(double-dips with core)*
- GEOG 3500: Intro. to Geographic Information Systems (3hrs)
- ECON 4440: Economics of Natural Resources and Environment (3hrs)
- PHIL 2500: Environment and Society (3hrs)

**University Core Requirements**  
Communication – English Composition and Rhetoric (6hrs total)
- ENGL 1310: First-Year Writing I (3hrs)
- TECM 2700: Technical Writing (3hrs) *(double-dips with major)*
- Mathematics (at least 3hrs total)
  - Double-dips with major requirement
- Laboratory Sciences (at least 6hrs total)
  - Double-dips with major requirement
- Creative Arts (3hrs total)
  - See catalog or online degree audit for acceptable options
- Language, Philosophy, & Culture (3hrs total)
  - See catalog or online degree audit for acceptable options
- American History (6hrs total)
  - HIST 2610: US History to 1865 (3hrs)
  - HIST 2620: US History since 1865 (3hrs)
- Government/Political Science (6hrs total)
  - PSCI 2305: (3hrs)
  - PSCI 2306: (3hrs)
- Social & Behavioral Sciences (3hrs total)
  - ECON 1100: Principles of Microeconomics (3hrs) *(pre-req for ECON 4440)*
- Component Area Option (6hrs total)
  - Double-dips with major requirement

**Additional University Requirements**  
- Minimum of 120 total hours
- Minimum of 36 advanced hours
  - A minimum of 1 hour of advanced electives are needed to meet university requirement
- Minimum 2.000 UNT GPA
- Minimum 2.000 Overall GPA

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**College of Science Advising Center**  
Hickory Hall 283; (940) 369-8606; COSAdvising@unt.edu

This is an unofficial simplified checklist effective Fall 2022. Degree requirements and pre-requisites are subject to change, please check with an advisor for any updates. Online catalog - [http://catalog.unt.edu/](http://catalog.unt.edu/)