

# 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)  
*C or higher required for English core*

- **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

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/>