



UNIVERSITY OF NORTH TEXAS™
DEPARTMENT OF BIOLOGICAL SCIENCES

BS- Ecology Degree

for Catalog Year 2022-2023

Biological Sciences Advising Office Information

Location: Life Science Complex A128 (*enter via atrium*)

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Bachelor of Science with a major in Ecology

The BS-Ecology requires a minimum of 120 semester hours, of which 36 must be advanced (courses numbered 3000 and higher). Please note that to declare a major within the College of Science, students must be algebra proficient.

Foundation Course Requirements

Students in the BS-Ecology must complete the following courses with a C or better and at least a 2.5 overall GPA in these courses in order to take advance coursework for the degree.

Biology Courses:

| <u>UNT Course #</u> | <u>Course Name</u> | <u>Hrs.</u> | <u>TCCN #</u> |
|--|--|-------------|-------------------|
| ___ BIOL 1710 | Biology for Science Majors I | 3 | BIOL 1306 or 1406 |
| ___ BIOL 1720 | Biology for Science Majors II | 3 | BIOL 1307 or 1407 |
| ___ BIOL 1760 | Biology for Science Majors Lab | 2 | |
| *Student can take BIOL 1750 (Introductory Biology Research Laboratory I) in place of BIOL 1760 | | | |
| ___ BIOL 2140 | Principles of Ecology | 3 | |
| ___ BIOL 2141 | Principles of Ecology Lab | 1 | |
| ___ BIOL 2251 | Biodiversity & Conservation of Animals | 3 | |

Chemistry Courses:

| <u>UNT Course #</u> | <u>Course Name</u> | <u>Hrs.</u> | <u>TCCN #</u> |
|---------------------|--|-------------|---------------|
| ___ CHEM 1410/1430 | Chemistry for Science Majors I with lab | 4 | CHEM 1411 |
| ___ CHEM 1420/1440 | Chemistry for Science Majors II with lab | 4 | CHEM 1412 |
| ___ CHEM 2370/3210 | Organic Chemistry I with lab | 4 | CHEM 2423 |

Math Courses:

| <u>UNT Course #</u> | <u>Course Name</u> | <u>Hrs.</u> | <u>TCCN #</u> |
|-----------------------|-------------------------------------|-------------|-------------------|
| One of the following: | | | |
| ___ MATH 1680 | Elementary Probability & Statistics | 3 | MATH 1342 or 1442 |
| ___ MATH 1650 | Pre-calculus | 5 | MATH 2312 or 2412 |

Other Degree Requirements

Students in the BS-Ecology must complete the following courses in addition to the required CORE courses to graduate with the degree. For questions about CORE requirements, please contact an academic advisor at 940.369.8606.

Technical Writing Course:

| <u>UNT Course #</u> | <u>Course Name</u> | <u>Hrs.</u> | <u>TCCN #</u> |
|---------------------|---------------------------------------|-------------|---------------|
| ___ TECM 2700 | Technical Writing | 3 | ENGL 2311 |
| ___ GEOG 3500 | Intro to Geographic Information Syst. | 3 | |
| ___ ECON 4440 | Econ. of Natural Resources & Environ. | 3 | |
| ___ PHIL 2500 | Intro to Contemporary Environ. Issues | 3 | |

Major Requirements

Students in the BS-Ecology must complete the following courses with a C or better and at least a 2.0 overall GPA in these courses in order to graduate with the degree.

Math Courses: (if Math 1650 was used in the foundation requirement)

| <u>UNT Course #</u> | <u>Course Name</u> | <u>Hrs.</u> | <u>TCCN #</u> |
|---------------------|--------------------|-------------|-------------------|
| ___ MATH 1710 | Calculus | 4 | MATH 2313 or 2413 |

Physics Courses:

| <u>UNT Course #</u> | <u>Course Name</u> | <u>Hrs.</u> | <u>TCCN #</u> |
|--------------------------------|---|-------------|------------------|
| One of the following groups: | | | |
| ___ PHYS 1410/1430 & 1420/1440 | Gen. Physics I & II with labs | 8 | PHYS 1401 & 1402 |
| ___ PHYS 1510/1530 & 1520/1540 | Physics I & II with Calculus, with labs | 8 | |

Advanced Biology Courses:

| <u>UNT Course #</u> | <u>Course Name</u> | <u>Hrs.</u> | <u>TCCN #</u> |
|---------------------|-----------------------------------|-------------|---------------|
| ___ BIOL 3451/3452 | Genetics with Laboratory | 4 | |
| ___ BIOL 4051/4052 | Community Ecology with Laboratory | 4 | |
| ___ BIOL 4260 | Principles of Evolution | 3 | |

One of the following:

| | | | |
|--------------------|----------------------------------|---|--|
| ___ BIOL 4503/4504 | Plant Physiology with Laboratory | 4 | |
| ___ BIOL 4505/4510 | Comparative Animal Phys with Lab | 4 | |

Advanced Biology Electives:

- ___ Students must complete 12 hours of advanced biology electives. Please see the undergraduate catalog or an advisor to ensure the selected course counts in the B.S. Ecology degree. The 12 hours must include 2 lectures with associated labs and another.

Additional Chemistry Courses:

| <u>UNT Course #</u> | <u>Course Name</u> | <u>Hrs.</u> | <u>TCCN #</u> |
|---------------------|-------------------------------|-------------|---------------|
| ___ CHEM 2380/3220 | Organic Chemistry II with lab | 4 | CHEM 2425 |

Additional Notes:

This document is a tool to assist students but is not the official record. Please see the undergraduate catalog (catalog.unt.edu) for the official requirements, including CORE and overall university requirements. If you have questions, please see an advisor.

Please be aware that pre-requisites may apply to certain courses. Pre-requisites are subject to change and will be enforced.

