

Bachelor of Science in Biology

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 two of these courses for degree, but only one for the foundation*):
 - **BIOL 2041 & 2042:** Microbiology & Lab (4hrs)
 - **BIOL 2140:** Principles of Ecology (3hrs)
 - **BIOL 2241:** Biology of Higher Plants (3hrs)
 - **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)
- **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 2041 & 2042:** Microbiology & Lab (4hrs)
 - **BIOL 2140:** Principles of Ecology (3hrs)
 - **BIOL 2241:** Biology of Higher Plants (3hrs)
 - **BIOL 2251:** Biodiversity and Conservation of Animals (3hrs)
- **BIOL 3451 & 3452:** Genetics & Lab (4hrs)
- **BIOL 3510 & 3520:** Cell Biology & Lab (4hrs)
- One of the following:
 - **BIOL 3800 & 4510:** Animal Physiology & Lab (4hrs)
 - **BIOL 4501 & 4502:** Bacterial Diversity & Physiology & Lab (4hrs)
 - **BIOL 4503 & 4504:** Plant Physiology & Lab (4hrs)
 - **BIOL 4505 & 4510:** Comparative Animal Physiology & Lab (4hrs)
- **Sixteen** hours of advanced biology courses. The sixteen hours must include at least 2 lectures with associated labs.
- **CHEM 2380 & 3220:** Organic Chemistry II & Lab (4hrs)
- One of the following:
 - **CHEM 3451 & 3452:** Quantitative Analysis & Lab (4hrs)
 - **CHEM 3530:** Physical Chemistry for Life Science (4hrs)
 - **BIOC 3621 & 3622:** Principles of Biochemistry & Lab (4hrs)
 - **BIOC 4540 and BIOC 4550:** Biochemistry I & II (6hrs)

Other Required Courses for Degree

- **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*)
- **MATH 1710:** Calculus I (4hrs)

Minor Requirements

All Biology majors are awarded a Chemistry minor after completing their required chemistry courses within their degree requirements. Students can choose to add additional minors.

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)

- See catalog or online degree audit for acceptable options

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 2 hours 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/>