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 2.5 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/