Bachelor of Arts with a major in Biology
2020-2021 Checklist

University Core Requirements

Communication (English Composition):
- ENGL 1310: College Writing I

Creative Arts:
- *Choose from Catalog

Language, Philosophy, & Culture:
- *Choose from Catalog

American History to 1865:
- HIST 2610

American History since 1865:
- HIST 2620

Federal Government/Political Science:
- PSCI 2305

State Government/Political Science:
- PSCI 2306

Social & Behavioral Sciences:
- *Choose from Catalog

College of Science Requirements

Algebra Proficiency
To be admitted into the College of Science, students must complete College Algebra with a grade of C or higher OR demonstrate proficiency through a math placement exam.

Foreign Language Requirement Options
Must demonstrate proficiency at the 2050 level in one language:
- Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, Spanish, or American Sign Language

OR

COS Breadth
Students can complete 12 hours from subjects outside of the College of Science. *(May not also apply to University Core)*

Foundation Courses for Major
Complete the following courses with a grade of C or higher:

- BIOL 1710: Biology for Science Majors I
- BIOL 1720: Biology for Science Majors II
- BIOL 1760: Biology for Science Majors Laboratory

One of the following sophomore level biology options:

- BIOL 2041 & 2042: Microbiology & Laboratory
- BIOL 2140: Principles of Ecology
- BIOL 2241: Biology of Higher Plants
- BIOL 2251: Biodiversity and Conservation of Animals
- BIOL 2302 & 2312: Human Anatomy & Physiology II & Laboratory

- BIOL 3451 & 3452: Genetics & Laboratory
- BIOL 3510 & 3520: Cell Biology & Laboratory

One of the following advanced physiology options:

- BIOL 3800 & 4510: Animal Physiology & Laboratory
- BIOL 4501 & 4502: Bacterial Diversity & Physiology & Laboratory
- BIOL 4503 & 4504: Plant Physiology & Laboratory
- BIOL 4505 & 4510: Comparative Animal Physiology & Laboratory

Or

One of the following Advanced Biology Elective options:

- 1 advanced biology course with its laboratory and 1 advanced biology course without laboratory

Or

3 advanced biology courses without laboratories

CHEM 2380 & 3220: Organic Chemistry II & Laboratory

One of the following advanced chemistry options:

- CHEM 3451 & 3452: Quantitative Analysis & Laboratory
- CHEM 3530: Physical Chemistry for Life Science
- BIOC 3621 & 3622: Principles of Biochemistry & Laboratory
- BIOC 4540 and BIOC 4550: Biochemistry I & II

Required Courses for Degree

Complete the following courses with a grade of C or higher:

Second sophomore level biology option (choose one that is different than your foundation course selection):
- BIOL 2041 & 2042: Microbiology & Laboratory
- BIOL 2140: Principles of Ecology
- BIOL 2241: Biology of Higher Plants
- BIOL 2251: Biodiversity and Conservation of Animals
- BIOL 2302 & 2312: Human Anatomy & Physiology II & Laboratory
- BIOL 3451 & 3452: Genetics & Laboratory
- BIOL 3510 & 3520: Cell Biology & Laboratory

One of the following advanced physiology options:
- BIOL 3800 & 4510: Animal Physiology & Laboratory
- BIOL 4501 & 4502: Bacterial Diversity & Physiology & Laboratory
- BIOL 4503 & 4504: Plant Physiology & Laboratory
- BIOL 4505 & 4510: Comparative Animal Physiology & Laboratory

Or

1 advanced biology course with its laboratory and 1 advanced biology course without laboratory

Or

3 advanced biology courses without laboratories

CHEM 2380 & 3220: Organic Chemistry II & Laboratory

One of the following advanced chemistry options:

- CHEM 3451 & 3452: Quantitative Analysis & Laboratory
- CHEM 3530: Physical Chemistry for Life Science
- BIOC 3621 & 3622: Principles of Biochemistry & Laboratory
- BIOC 4540 and BIOC 4550: Biochemistry I & II

Required Courses for Degree

PHYS 1410 & 1430: General Physics I & Laboratory
PHYS 1420 & 1440: General Physics II & Laboratory
TECM 2700: Technical Writing (C or higher if also used for core)
MATH 1680: Elem. Probability & Statistics OR
MATH 1710: Calculus I

Minor Requirements

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

Additional Requirements

Minimum of 120 total hours
Minimum of 36 advanced hours
Check with an advisor to see if electives are necessary to reach minimums

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

This is an unofficial simplified checklist effective Fall 2020. Degree requirements are subject to change, please check with an advisor for any updates.

*Link to Catalog: http://catalog.unt.edu/content.php?catoid=23&navoid=2482