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 approved list

**Language, Philosophy, & Culture:**
- Choose from approved list

**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 approved list

**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

**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

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 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:
- 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 chemistry courses 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.