Bachelor of Science 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.

**Foundation Courses for Major**

- 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

**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 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

- 2 advanced biology courses with their laboratories
- 8 additional hours of advanced biology courses

- 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

- 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 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.