Bachelor of Arts with a major in Chemistry
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.

**Chemistry Foundation Requirements**
- **CHEM 1400**: First Year Seminar in Chemistry (1hr)
- **CHEM 1410 & 1430**: General Chemistry I & Lab (4hrs)
  - (C or higher)
- **CHEM 1420 & 1440**: General Chemistry II & Lab (4hrs)
  - (C or higher)
- **CHEM 2370 & 3210**: Organic Chemistry I & Lab (4hrs)
  - (C or higher)
- **CHEM 2380 & 3220**: Organic Chemistry II & Lab (4hrs)
  - (C or higher)
- **CHEM 3451 & 3452**: Quantitative Analysis & Lab (4hrs)

**Major Requirements**
One of the following options:
- **Option 1**: *(recommended for advanced studies in chemistry)*
  - CHEM 3510 & 3230: Physical Chemistry I & Lab (4hrs)
    - (C or higher)
  - CHEM 3520 & 3240: Physical Chemistry II & Lab (4hrs)
  - 3 additional hours of 4000 level chemistry OR
  - BIOC 3621 & 3622: Principles of Biochemistry & Lab (4hrs)
- **Option 2**: *(recommended for a career in chemistry industry)*
  - CHEM 3510 & 3230: Physical Chemistry I & Lab (4hrs)
  - 7 additional hours of 4000 level chemistry
  - may include BIOC 3621 & 3622: Principles of Biochemistry & Lab (4hrs)
- **Option 3**: *(recommended for health professions)*
  - CHEM 3530: Physical Chemistry for Life Science (4hrs)
  - 7 additional hours of 4000 level chemistry
  - may include BIOC 3621 & 3622: Principles of Biochemistry & Lab (4hrs)

**Other Required Courses for Degree**
- **MATH 1710**: Calculus I (4hrs)
  - (C or higher)
- **MATH 1720**: Calculus II (3hrs)
  - (C or higher if taking PHYS 2220 or CHEM 3510)

One of the following:
- **PHYS 1410 & 1430 and 1420 & 1440**: General Physics I and II & Labs (8hrs)
- **PHYS 1510 & 1530 and 1520 & 1540**: General Physics I and II with Calculus & Labs (8hrs)
  - (C or higher for PHYS 1510)
- **PHYS 1710 & 1730 and 2220 & 2240**: Mechanics and Electricity & Magnetism & Labs (8hrs)
  - (C or higher for PHYS 1710)

**College Requirements**
- One of the following:
  - **COS Breadth** – Students can complete 12 hours from any subject outside of the College of Science. *(May not also apply to University Core)*
  - **Foreign Language** – Students must demonstrate proficiency through the 2050 level in one language: Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, Spanish, or American Sign Language

**University Core Requirements**
Communication – English Composition and Rhetoric (6hrs total)
- **ENGL 1310**: First-Year Writing I (3hrs)
- **ENGL 1320**: First-Year Writing II (3hrs) or **TECM 2700**: Technical Writing (3hrs)
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 19 hours of advanced electives are needed to meet university requirement
- Minimum 2.5 GPA on all advanced science, math, and engineering courses
- 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/](http://catalog.unt.edu/)