

Bachelor of Arts with a major in Chemistry
College of Science Advising Center
Hickory Hall 283; (940) 369-8606; COSAdvising@unt.edu

University Core Requirements

Communication (English Composition):

- ENGL 1310: College Writing I
- ENGL 1320: College Writing II or TECM 2700: Technical Writing

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.*)

Major Requirements

- CHEM 1410 & 1430: General Chemistry I with Laboratory

- CHEM 1420 & 1440: General Chemistry II with Laboratory

- CHEM 2370 & 3210: Organic Chemistry I with Laboratory

- CHEM 2380 & 3220: Organic Chemistry II with Laboratory

- CHEM 3451 & 3452: Quantitative Analysis with Laboratory

- Choose one of the following options:

Option 1: (recommended for advanced studies in chemistry)

- CHEM 3510 & 3230 Physical Chemistry I with Laboratory
- CHEM 3520 & 3240 Physical Chemistry II with Laboratory
- 3 additional hours of 4000 level chemistry or BIOC 3621 & 3622 Principles of Biochemistry with Laboratory

Major Requirements (continued)

Option 2: (recommended for a career in chemistry industry)

- CHEM 3510 & 3230 Physical Chemistry I with Laboratory
- 7 additional hours of 4000 level chemistry (may include BIOC 3621 & 3622 Principles of Biochemistry with Laboratory)

Option 3: (recommended for health professions)

- CHEM 3530 Physical Chemistry for Life Science
- 7 additional hours of 4000 level chemistry (may include BIOC 3621 & 3622 Principles of Biochemistry with Laboratory)

Required Courses for Degree

- MATH 1710: Calculus I

- MATH 1720: Calculus II

- Choose one of the following options:

- PHYS 1410 & 1430 & 1420 & 1440: General Physics I and II with Laboratories
- PHYS 1510 & 1530 & 1520 & 1540: General Physics I and II with Calculus with Laboratories
- PHYS 1710 & 1730 & 2220 & 2240: Mechanics and Electricity & Magnetism with Laboratories

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Algebra Proficiency

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Major Requirements

- CHEM 1410 & 1430:** General Chemistry I with Laboratory
- CHEM 1420 & 1440:** General Chemistry II with Laboratory
- CHEM 2370 & 3210:** Organic Chemistry I with Laboratory
- CHEM 2380 & 3220:** Organic Chemistry II with Laboratory
- CHEM 3451 & 3452:** Quantitative Analysis with Laboratory
- CHEM 3510 & 3230:** Physical Chemistry I with Laboratory
- CHEM 3520 & 3240:** Physical Chemistry II with Laboratory
- CHEM 4610 & 4620:** Advance Inorganic Chemistry with Laboratory
- CHEM 4631 & 4632:** Instrumental Analysis with Laboratory
- 6 additional hours of advanced chemistry** (*BIOC 4540: Biochemistry*
I to satisfy ACS certification requirements)

Required Courses for Degree

- MATH 1710:** Calculus I
- MATH 1720:** Calculus II
- MATH 2700:** Linear Algebra and Vector Geometry
- MATH 2730:** Multivariable Calculus
- PHYS 1710 & 1730:** Mechanics with Laboratory
- PHYS 2220 & 2240:** Electricity and Magnetism with Laboratory

Minor Requirements

A minor of at least 18 hours in mathematics, computer science, physics, biology, geology (if taken as a laboratory science) or materials science, of which 6 hours must be advanced.