

Bachelor of Science in Chemistry with a Concentration in Forensic Science

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

Students must complete the following courses with a C or higher.

- **CHEM 1410 & 1430:** General Chemistry I & Lab (4hrs)
- **CHEM 1420 & 1440:** General Chemistry II & Lab (4hrs)
- **CHEM 2370 & 3210:** Organic Chemistry I & Lab (4hrs)
- **CHEM 2380 & 3220:** Organic Chemistry II & Lab (4hrs)
- **CHEM 3451 & 3452:** Quantitative Analysis & Lab (4hrs)

Major Requirements

Students must complete the following courses with a C or higher.

- **CHEM 3510 & 3230** Physical Chemistry I & Lab (4hrs)
- **CHEM 3520 & 3240** Physical Chemistry II & Lab (4hrs)
- **CHEM 4610:** Advanced Inorganic Chemistry Lecture (3hrs)
- **CHEM 4620:** Advanced Inorganic Chemistry Lab (1hr)
- **CHEM 4631 & 4632:** Instrumental Analysis & Lab (4hrs)
- **BIOC 4540:** Biochemistry I (3hrs)

Forensic Science Concentration Requirements

Students must complete the following courses with a C or higher.

- **BIOL 3331:** Biomedical Criminalistics (3hrs)
- **BIOL 4240:** Forensic Microscopy (3hrs)
- **BIOL 4590:** Forensic Molecular Biology Lab (3hrs)
- **CHEM 3330:** Forensic Science Analysis (4hrs)
- **CHEM 4351:** Forensic Chemistry (3hrs)
- **CHEM 4360:** Principles of Forensic Science (3hrs)
- One of the following:
 - **CHEM 4900:** Forensic Science Internship (3hrs)
 - *Must be approved by Forensic Science Program Director*
 - **CHEM 4912:** Undergraduate Research Experience

Biology Minor Requirements

Students must complete the following courses with a C or higher.

- **BIOL 1710:** Biology for Science Majors I (3hrs)
- **BIOL 1760:** Biology for Science Majors Lab (2hrs)
- **BIOL 2041 & 2042:** Microbiology & Lab (4hrs)
- **BIOL 3451 & 3452:** Genetics & Lab (4hrs)

Other Required Courses for Degree

- **MATH 1710:** Calculus I (4hrs) (*C or higher*)
- **MATH 1720:** Calculus II (3hrs) (*C or higher*)
- **MATH 1780:** Probability Models (3hrs)
- **MATH 2730:** Multivariable Calculus (3hrs)
- One of the following:
 - **PHYS 1510 & 1530 and 1520 & 1540:** General Physics I and II with Calculus & Labs (8hrs) (*C or higher in both*)
 - **PHYS 1710 & 1730 and 2220 & 2240:** Mechanics and Electricity & Magnetism & Labs (8hrs) (*C or higher in both*)

University Core Requirements

Communication – English Composition and Rhetoric (6hrs total)

C or higher required for English core

- **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
- 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/>

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This plan is one example of how to complete the degree in 4 years. It assumes starting with Math Placement Level 2. It will work for some, not all. Remember to take this information, meet with advisors, plan around your circumstances, and make your path. Degree requirements and pre-requisites are subject to change, please consult advisors for updates. Online catalog - <http://catalog.unt.edu/>

F r e s h m a n	Fall Semester - 14 hours		
	Course	Title	Hours
	CHEM 1410 & 1430*	General Chemistry 1 & Lab	4
	BIOL 1710*	Biology 1	3
	BIOL 1760*	Biology Lab	2
MATH 1650*	Pre Calculus	5	

Spring Semester - 15 hours		
Course	Title	Hours
CHEM 1420 & 1440*	General Chemistry 2 & Lab	4
BIOL 2041 & 2042*	Microbiology & Lab	4
MATH 1710*	Calculus 1	4
ENGL 1310*	First Year Writing 1	3

S o p h o m o r e	Fall Semester - 18 hours		
	Course	Title	Hours
	CHEM 2370 & 3210*	Organic Chemistry 1 & Lab	4
	CHEM 3330*	Forensic Science Analysis	4
	MATH 1720*	Calculus 2	3
	PHYS Option 1*	Physics & Lab - See checklist for options	4
ENGL 1320 or TECM 2700*	First-Year Writing 2 or Technical Writing	3	

Spring Semester - 18 hours		
Course	Title	Hours
CHEM 2380 & 3220*	Organic Chemistry 2 & Lab	4
CHEM 4360*	Principles of Forensic Science	3
MATH 2370	Multivariable Calculus	3
PHYS Option 2*	Physics & Lab - See checklist for options	4
BIOL 3451 & 3452*	Genetics & Lab	4

J u n i o r	Fall Semester - 17 hours		
	Course	Title	Hours
	CHEM 3510 & 3230*	Physical Chemistry 1 & Lab	4
	CHEM 3451 & 3452*	Quantitative Analysis & Lab	4
	BIOC 4540*	Biochemistry 1	3
	PSCI 2305	US Government	3
Social & Behv Sci Core	See Guidebook for Options	3	

Spring Semester - 16 hours		
Course	Title	Hours
CHEM 3520 & 3240*	Physical Chemistry 2 & Lab	4
BIOL 3331*	Biomedical Criminalistics	3
MATH 1780*	Probability Models	3
PSCI 2306	State Government	3
Lang, Phil, Culture Core	See Guidebook for Options	3

S e n i o r	Fall Semester - 15 hours		
	Course	Title	Hours
	CHEM 4610	Advanced Inorganic Chemistry	3
	BIOL 4240*	Forensic Microscopy	3
	BIOL 4590*	Forensic Molecular Biology Lab	3
CHEM 4900 or 4912*	Forensic Science Internship or Undergrad Research Experience	3	
HIST 2610	US History up to 1865	3	

Spring Semester - 14 hours		
Course	Title	Hours
CHEM 4620	Advanced Inorganic Chemistry Lab	1
CHEM 4351*	Forensic Chemistry	3
CHEM 4631 & 4632*	Instrumental Analysis & Lab	4
Creative Arts Core	See Guidebook for Options	3
HIST 2620	US History from 1865 to now	3

1. The minor in Biology cannot be removed, but you may have more than one minor.
 2. Minimum 2.75 GPA in all math and science courses
- *Must earn a C or better