

Bachelor of Science in Biochemistry 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.

Foundation Course Requirements

Students must complete the following courses with a C or higher and at least a 2.5 overall GPA in these courses to take advanced coursework for the degree.

- **BIOL 1710:** Biology for Science Majors I (3hrs)
- **BIOL 1760:** Biology for Science Majors Lab (2hrs)
- **BIOL 2041 & 2042:** Microbiology & Lab (4hrs)
- **CHEM 1410 & 1430:** General Chemistry I & Lab (4hrs)
- **CHEM 1420 & 1440:** General Chemistry II & Lab (4hrs)
- **CHEM 2370 & 3210:** Organic Chemistry I & Lab (4hrs)
- One of the following:
 - **MATH 1680:** Elem. Probability & Statistics (3hrs)
 - **MATH 1780:** Probability Models (3hrs)

Major Requirements

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

- **CHEM 2380 & 3220:** Organic Chemistry II & Lab (4hrs)
- **CHEM 3451 & 3452:** Quantitative Analysis & Lab (4hrs)
- **BIOC 4540:** Biochemistry I (3hrs)
- **BIOC 4550:** Biochemistry II (3hrs)
- **BIOC 4560:** Biochemistry Lab (2hrs)
- **BIOC 4570:** Biochem & Molecular Bio of the Gene (3hrs)
- **CHEM 3510:** Physical Chemistry I (3hrs)
- **CHEM 3520:** Physical Chemistry II (3hrs)
- **BIOL 3510 & 3520:** Cell Biology & Lab (4hrs)
- **BIOL 3451 & 3452:** Genetics & Lab (4hrs)

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)
- **CHEM 4631 & 4632:** Instrumental Analysis & Lab (4hrs)
- **BIOL 4900:** Forensic Science Internship (3hrs)
 - *Must be approved by Forensic Science Program Director*

Other Required Courses for Degree

- **MATH 1710:** Calculus I (4hrs) (*C or higher*)
- **MATH 1720:** Calculus II (3hrs) (*C or higher*)
- One of the following:
 - **PHYS 1510 & 1530 and 1520 & 1540:** General Physics I and II with Calculus & Labs (8hrs)
 - (*C or higher in PHYS 1510*)
 - **PHYS 1710 & 1730 and 2220 & 2240:** Mechanics and Electricity & Magnetism & Labs (8hrs)
 - (*C or higher in PHYS 1710*)
- **TECM 2700:** Technical Writing (3hrs) (*double-dips with core*)

Minor Requirements

All Biochemistry majors are awarded a Biology minor after completing their required biology courses within their degree requirements. Students can choose to add additional minors.

University Core Requirements

Communication – English Composition and Rhetoric (6hrs total)
C or higher required for English core

- **ENGL 1310:** First-Year Writing I (3hrs)
 - **TECM 2700:** Technical Writing (3hrs) (*double-dips with major*)
- 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 2.75 GPA in all math and science 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
	BIOL 1710*	Biology 1	3
	BIOL 1760*	Biology Lab	2
	CHEM 1410 & 1430*	General Chemistry 1 & Lab	4
MATH 1650*	Pre Calculus	5	

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

S o p h 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
TECM 2700*	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
BIOL 3451 & 3452*	Genetics & Lab	4
PHYS Option 2	Physics & Lab - See checklist for options	4
Lang, Phil, Culture Core	See Guidebook for Options	3

J u n i o r	Fall Semester - 19 hours		
	Course	Title	Hours
	BIOL 3510 & 3520*	Cell Biology & Lab	4
	CHEM 3451 & 3452*	Quantitative Analysis & Lab	4
	BIOC 4540 & 4560*	Biochemistry 1 & Lab	5
	CHEM 3510*	Physical Chemistry 1	3
Social & Behv Sci Core	See Guidebook for Options	3	

Spring Semester - 15 hours		
Course	Title	Hours
BIOC 4570*	Biochem and Molecular Biology or the Gene	3
CHEM 3520*	Physical Chemistry 2	3
BIOC 4550*	Biochemistry 2	3
BIOL 3331*	Biomedical Criminalistics	3
MATH 1680 or 1780*	Elem. Probability & Stats or Probability Models	3

S e n i o r	Fall Semester - 15 hours		
	Course	Title	Hours
	BIOL 4240*	Forensic Microscopy	3
	BIOL 4590*	Forensic Molecular Biology Lab	3
	PSCI 2305	US Government	3
	HIST 2610	US History up to 1865	3
BIOL 4900*	Forensic Science Internship	3	

Spring Semester - 16 hours		
Course	Title	Hours
CHEM 4631 & 4632*	Instrumental Analysis & Lab	4
CHEM 4351*	Forensic Chemistry	3
PSCI 2306	State Government	3
HIST 2620	US History from 1865 to now	3
Creative Arts Core	See Guidebook for Options	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