



College of Science

B.S. Biochemistry with Secondary Teacher Certification in Chemistry

2024-2025 Texas Common Course Numbering System Transfer Guide

This four-year plan provides a model for on-time completion of this UNT program using as many TCCNS courses as possible. The four-year plan also shows the first point when no TCCNS options are available for this program. See the current [Undergraduate Catalog](#) for course prerequisites. Course availability at UNT is subject to change, and the plan shown below may change based on updates to UNT's course offerings.

First Year Fall		First Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
UNT Core: Social & Behavioral Sciences	See list of approved courses	UNT Core: Creative Arts	See list of approved courses
BIOL 1710/1760	BIOL 1306/1106 or 1406	BIOL 1720 or 2041/2042	BIOL 1307/1107 or 1407 or 2321/2121 or 2421
CHEM 1410/1430	CHEM 1311/1111 or 1411	CHEM 1420/1440	CHEM 1312/1112 or 1412
MATH 1650	MATH 2312 or 2412	ENGL 1310	ENGL 1301
		MATH 1710 ¹	MATH 2313 or 2413

Second Year Fall		Second Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
CHEM 2370/3210	CHEM 2323/2123 or 2423	UNT Core: Language, Philosophy & Culture	See list of approved courses
ENGL 1320 or TECM 2700	ENGL 1302 or 2311	CHEM 2380/3220	CHEM 2325/2125 or 2425
MATH 1720 ¹	MATH 2314 or 2414	EDCI 4060	N/A
PHYS 1510/1530 or 1710/1730	PHYS 2325/2125 or 2425	PHYS 1520/1540 or 2220/2240	PHYS 2326/2126 or 2426
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
TNTX 1100 ²	N/A	TNTX 1200 ²	N/A

Third Year Fall		Third Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
UNT Core: American History	See list of approved courses	UNT Core: American History	See list of approved courses
BIOC 4540/4560	N/A	BIOC 4550	N/A
CHEM 3451/3452	N/A	BIOL 3451/3452	N/A
CHEM 3510	N/A	CHEM 3520	N/A
EDCI 3500 ²	N/A	EDCI 4000 ²	N/A

¹ Students have the option to take **MATH** 1810 / 1820 / 1830 or **MATH** 1710 / 1820 / 1830 in place of **MATH** 1710 / 1720. Note that the **MATH** 1810 / 1820 / 1830 or the **MATH** 1710 / 1820 / 1830 options may result in needing additional courses taken to fulfill the UNT Core. See your advisor for more information.

² Students must be admitted to the Teacher Education Program prior to enrolling in certain Education courses.



College of Science
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Fourth Year Fall		Fourth Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
BIOC 4570/4580	N/A	EDCI 4608 ² (Student Teaching I)	N/A
BIOL 3510/3520	N/A	EDCI 4618 ² (Student Teaching II)	N/A
CHEM 4700	N/A	EDCI 4628 ² (Student Teaching Seminar)	N/A
EDCI 4500 ²	N/A		
BIOL Elective with Lab (Advanced)	N/A		

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College of Science

B.S. Biochemistry with Secondary Teacher Certification in Chemistry

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Students may not declare a major within the College of Science until they have completed **MATH 1100** (**MATH 1314** or **1414**) or **MATH 1180** (**MATH 1324**) with a 'C' or higher or have demonstrated proficiency through a math placement exam. Applicants who do not meet the math proficiency requirement will be provisionally admitted as Pre-College of Science (PCOS). PCOS students may visit the College of Science Advising Center for assistance.

Courses Recommended for Transfer

The UNT Core requirements are shown with Texas Common Course Numbering System values only when UNT offers equivalent courses. There may be other courses in transfer that apply toward the specific degree requirement, but those listed are known to apply.

UNT Core: Communication

ENGL 1301; and **ENGL 1302** or **2311**

A grade of 'C' or higher is required on courses applied toward this requirement.

UNT Core: Mathematics

This requirement will be met by fulfilling the B.S. Biochemistry (Teacher Certification in Chemistry) major requirements.

UNT Core: Life and Physical Sciences

This requirement will be met by fulfilling the B.S. Biochemistry (Teacher Certification in Chemistry) major requirements.

UNT Core: American History

Two courses chosen from: **HIST 1301**, **1302**, **2301**

UNT Core: Government/Political Science

GOVT 2305 and **2306**

UNT Core: Creative Arts

One course chosen from: **ARTS 1301** or **1304**; **DRAM 1310**; **MUSI 1306** or **1307**; **SPCH 2341**

UNT Core: Language, Philosophy and Culture

One course chosen from: **ARTS 1303**; **ENGL 2321**, **2326**, **2331**, **2341**, or **2351**; **HIST 2321** or **2322**; **PHIL 1301**, **1304**, **2303**, or **2306**

UNT Core: Social and Behavioral Sciences

One course chosen from: **ANTH 2346**, **2351**; **BUSI 1307**; **COMM 1307**; **CRIJ 1301**; **ECON 2301** or **2302**; **GEOG 1303**; **PSYC 2301** or **2330**; **SOCI 1301**; **SOCW 2361**; **SPCH 1318**; **TECA 1354**

UNT Core: Core Option Courses

This requirement will be met by fulfilling the B.S. Biochemistry (Teacher Certification in Chemistry) major requirements.

Biochemistry (Teacher Certification in Chemistry): Major Requirements

TCCNS options:

- **BIOL 1306/1106** or **1406** (also fulfills a portion of the Core Option Courses core requirement)
- **BIOL 1307/1107** or **1407** or **2321/2121** or **2421**
- **CHEM 1311/1111** or **1411** (also fulfills a portion of the Life & Physical Sciences core requirement)
- **CHEM 1312/1112** or **1412** (also fulfills a portion of the Life & Physical Sciences core requirement)
- **CHEM 2323/2123** or **2423** (approved substitution)
- **CHEM 2325/2125** or **2425** (approved substitution)
- **MATH 2312** or **2412** (also fulfills the Mathematics core requirement)

Students must have a grade of 'C' or higher and a minimum of 2.5 grade point average in all Foundation courses before enrolling in advanced courses required for the major.

*Students are required to take **BIOL 1760** at UNT unless, prior to transfer, they have completed both **BIOL 1106** and **1107** OR both **BIOL 1406** and **1407**.*

Courses listed above are TCCNS options and do not include all courses required for the B.S. Biochemistry (Teacher Certification in Chemistry) major.

Biochemistry (Teacher Certification in Chemistry): Additional Requirements

TCCNS options:

- **MATH 2313** or **2413** (also fulfills a portion of the Core Option Courses core requirement)
- **MATH 2314** or **2414**
- **PHYS 2325/2125** or **2425** (approved substitution)
- **PHYS 2326/2126** or **2426** (approved substitution)

A minimum of grade point average of 2.5 and a 'C' or higher in Foundation courses, a 'C' or higher in all advanced courses counting toward major requirements, and a minimum of 2.0 UNT and overall (UNT and transfer) grade point average are required for graduation.

Only two attempts will be allowed for each biology and biochemistry course in this degree.

Students in the department whose Foundation or overall grade point average drop below the minimum GPA for two consecutive semesters will be removed from the program.

Courses listed above are TCCNS options and do not include all courses required for the B.S. Biochemistry (Teacher Certification in Chemistry) major.



College of Science

B.S. Biochemistry with Secondary Teacher Certification in Chemistry

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Biochemistry (Teacher Certification in Chemistry): Required Minor

TCCNS options:

- **BIOL** 1306/1106 or 1406
- **BIOL** 1307/1107 or 1407 or 2321/2121 or 2421

Students must complete a minor of 20 hours in biology, which includes the biology foundation courses.

A 'C' or higher is required on all courses.

Courses listed above are TCCNS options and do not include all courses required for the Biology minor.

Biochemistry (Teacher Certification in Chemistry): Required Minor

No TCCNS options available.

A minor in Mathematics and Science Secondary Teaching, administered by Teach North Texas, is required. This minor requires 22 hours and students must meet all GPA requirements to apply for state certification. Students should contact the Teach North Texas program for more information on enrolling in the certification courses.

A 2.75 GPA is required on all courses counting toward the Mathematics and Science Secondary Teaching Minor; see the current Undergraduate catalog for all minor requirements.

Biochemistry (Teacher Certification in Chemistry): Teacher Certification Information

No TCCNS options available.

To be certified to teach in the state of Texas, students must successfully pass appropriate state exams. Consult the College of Education TExES Success Office for specific exams requirements and information.

Additional requirements for Teacher Certification in Chemistry include a 2.5 overall GPA (including all transferred courses), a 2.5 UNT GPA, a 2.5 major GPA, and a 2.75 GPA in all Teacher Education courses.

Special Notes

Hours Required and General/College Requirements: A minimum of 120 semester hours, of which 36 must be advanced, and fulfillment of degree requirements for the Bachelor of Science in Biochemistry degree as specified in the General University Requirements section of the UNT catalog and the College of Science requirements.

UNT Core Curriculum/Transfer of Core Curriculum: UNT complies with the mandate of the Texas Legislature regarding [Core requirements](#) for state-assisted institutions. Students who successfully complete the common core curriculum (in whole or in part) at a Texas state-assisted institution of higher education are eligible to transfer as "core complete" for those categories in the UNT University Core Curriculum.

Individual academic programs may require courses contained in parts of the University Core Curriculum. Students who wish to take courses that will fulfill both core and major/program requirements simultaneously should check with academic advisors for assistance in selecting core courses.

Choice of Catalog: Any student transferring directly from a Texas public community college to UNT shall have the same choice of catalog designating degree requirements as the student would have had if the dates of attendance at the university had been the same as the dates of attendance at the community college.

The College of Science required curriculum and policies are located in the [undergraduate catalog](#) under the corresponding catalog year.

For additional program and contact information, visit the College of Science Student Advising website at <https://cos.unt.edu/advising>.