



College of Science

B.S. Biochemistry, Secondary Education Certification In Physical Science (Grades 6-12)

2023-2024 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.

UNT Courses noted (#) do not have TCCNS equivalents, but have approved transferable substitutions.

FIRST YEAR FALL		FIRST YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
UNT Core: American History	See list of approved courses	TECM 2700	ENGL 2311
CHEM 1410/1430	CHEM 1411 or 1311/1111	CHEM 1420/1440	CHEM 1412 or 1312/1112
MATH 1650	MATH 2312 or 2412	PSCI 2305	GOVT 2305
ENGL 1310	ENGL 1301	TNTX 1200*	N/A
UNT Core: Social & Behavioral Sciences	See list of approved courses	UNT Core: Creative Arts	See list of approved courses
TNTX 1100*	N/A	MATH 1710	MATH 2313 or 2413
* Students must be admitted to Teach North Texas Program prior to enrolling in certain Education courses.			

SECOND YEAR FALL		SECOND YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
BIOL 1710/1760#	BIOL 1406 or 1306/1106	UNT Core: Language, Philosophy, & Culture	See list of approved courses
CHEM 2370/3210#	CHEM 2423 or 2323/2123	CHEM 2380/3220#	CHEM 2425 or 2325/2125
PSCI 2306	GOVT 2306	UNT Core: American History	See list of approved courses
MATH 1720	MATH 2314 or 2414	BIOL 1720 or 2041/2042	BIOL 1407 or 1307/1107 or 2421 or 2321/2121
PHYS 1510#/1530# or 1710/1730	PHYS 2425 or 2325/2125	PHYS 1520#/1540# or 2220/2240	PHYS 2426 or 2326/2126

THIRD YEAR FALL		THIRD YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
BIOC 4540/4560	N/A	BIOC 4550	N/A
CHEM 3510	N/A	CHEM 3520	N/A
CHEM 3451/3452	N/A	EDCI 4000*	N/A
BIOL 3451/3452	N/A	BIOC 4570/4580	N/A
EDCI 3500*	N/A	EDCI 4060	N/A

FOURTH YEAR FALL		FOURTH YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
EDCI 4500*	N/A	EDCI 4608* (Student Teaching I)	N/A
BIOL 3510/3520	N/A	EDCI 4618* (Student Teaching II)	N/A
BIOL Elective w/Lab (Advanced)	N/A	EDCI 4628* (Student Teaching Seminar)	N/A
CHEM 4700	N/A		
PHYS 3010/3030	N/A		



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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 better, 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 options 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 2311

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

ENGL 2311 is a required course for the B.S. in Biochemistry (see next page).

UNT Core: Mathematics

This requirement will be met by fulfilling the B.S. Biochemistry program requirement (see next column).

UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the B.S. Biochemistry program requirements (see next column).

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, & Culture

One course chosen from: **ARTS** 1303, **ENGL** 2321, 2326, 2331, 2332, 2333, 2341, or 2351; **HIST** 2321 or 2322; **PHIL** 1301, 1304, 2303, or 2306

UNT Core: Social & Behavioral Sciences

One course chosen from: **ANTH** 2346 or 2351; **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 program requirements (see next column).

B.S. Biochemistry: Foundation Requirements

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

- **BIOL** 1406 or 1306/1106
- **BIOL** 1407 or 1307/1107 or 2421 or 2321/2121
- **CHEM** 1411 or 1311/1111
- **CHEM** 1412 or 1312/1112
- **CHEM** 2423 or 2323/2123 (approved substitution)
- **MATH** 2312 or 2412 (also fulfills the Mathematics core requirement)

Laboratory Science courses listed above also fulfill the Life & Physical Sciences and the Core Option core requirements.

Courses listed above are TCCNS options and do not include all courses required for the UNT B.S. Biochemistry major.

B.S. Biochemistry: Major Requirements

- **CHEM** 2425 or 2325/2125 (approved substitution)

Advanced Biochemistry Courses

No TCCNS options available.

Courses listed above are TCCNS options and do not include all courses required for the UNT B.S. Biochemistry major.

B.S. Biochemistry: Minor in Biology (Required)

Minor of 20 hours in Biology is required, which includes completion of the **BIOL** courses in the Foundation as well as other courses that do not have TCCNS options.

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

A grade of C or better is required on all courses.

BIOL 1406 and 1407 also fulfill the Life & Physical Sciences core requirement.

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



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B.S. Biochemistry: Other Course Requirements

- ENGL 2311 (also fulfills a portion of Communication core requirement) (C or better)
- MATH 2313 or 2413
- MATH 2314 or 2414
- PHYS 2425 or 2325/2125 (approved substitution)
- PHYS 2426 or 2326/2126 (approved substitution)
- A minimum 2.5 grade point average and a C or better in Foundation courses, a C or better in all advanced courses counting toward major requirements, and a minimum 2.0 UNT and overall (UNT and transfer) grade point average is required for graduation.
- 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.
- Only two attempts will be allowed for each biology and biochemistry course in this degree.

Teach North Texas Program: Minor (Required)

No TCCNS options available.

Students in this degree plan must go through the [Teach North Texas](#) Program. This program requires 22 hours for a minor in Mathematics and Science Secondary Teaching and 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 current UNT Undergraduate Catalog for all minor requirements.

Teacher Certification Information

To be certified to teach in the State of Texas, the student must successfully pass the following exams:

- Exam #1 TExES: Pedagogy & Professional Responsibilities (EC-12)
Exam #2 TExES: Physical Science (6-12)

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

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 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 Advising Center website at cos.unt.edu/advising.