



College of Science

B.S. Mathematics,

Secondary-Level Teacher Certification (Grades 7-12)

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.

FIRST YEAR FALL		FIRST YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
ENGL 1310	ENGL 1301	ENGL 1320 or TECM 2700	ENGL 1302 or 2311
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
MATH 1710	MATH 2313 or 2413	MATH 1720	MATH 2314 or 2414
MATH 2000	MATH 2305 or 2405	MATH 2100	N/A
Foreign Language Option I or II	Consult UNT advisor	Foreign Language Option I or II	Consult UNT advisor
TNTX 1100*	N/A	TNTX 1200*	N/A

**Students must be admitted to the 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
MATH 2700	MATH 2318 or 2418	MATH 3000	N/A
MATH 2730	MATH 2315 or 2415	UNT Core: Creative Arts	See list of approved courses
CSCE 1010 or 1020 or 1030	COSC 1315 or 1336 or 1436	UNT Core: Language, Philosophy, & Culture	See list of approved courses
B.S. Math: Laboratory Science	See list of approved courses	B.S. Math: Laboratory Science	See list of approved courses
EDCI 3500*	N/A	EDCI 4060	N/A

THIRD YEAR FALL		THIRD YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MATH 3510 or 3610	N/A	MATH 3850	N/A
MATH 3680	N/A	MATH 4060	N/A
B.S. Math: Laboratory Science	See list of approved courses	MATH Algebra Elective	N/A
UNT Core: American History	See list of approved courses	UNT Core: American History	See list of approved courses
TNTX 3100	N/A	EDCI 4000	N/A

FOURTH YEAR FALL		FOURTH YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MATH 4050	N/A	EDCI 4608* (Student Teaching I)	N/A
MATH Analysis Elective	N/A		
MATH Elective (3350 or higher)	N/A	EDCI 4618* (Student Teaching II)	N/A
MATH Elective (3350 or higher)	N/A		
UNT Core: Social & Behavioral Sciences	See list of approved courses	EDCI 4628* (Student Teaching Seminar)	N/A
EDCI 4500*	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 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 better is required on courses applied toward this requirement.

ENGL 2311 is recommended.

UNT Core: Mathematics

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

UNT Core: Life & Physical Sciences

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

UNT Core: American History

Two courses 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. Mathematics program requirements (see next column).

B.S. Mathematics: Major Requirements

- MATH 2305 or 2405
- MATH 2313 or 2413
- MATH 2314 or 2414
- MATH 2315 or 2415
- MATH 2318 or 2418

MATH 2313 also fulfills the Mathematics core requirement; MATH 2314 also fulfills a portion of the Core Option Courses core requirement.

Advanced Mathematics Courses

No TCCNS options available.

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

B.S. Mathematics: Laboratory Sciences

Students are required to complete at least 11 hours in laboratory sciences. These may also fulfill the Life & Physical Sciences and part of the Core Option Courses core requirements.

Option I. Biology Emphasis

**** Approved substitution**

- BIOL 1406 or 1306/1106**
- BIOL 1407 or 1307/1107**
- PHYS 2425 or 2325/2125 or CHEM 1411 or 1311/1111

Option II. Chemistry Emphasis

- CHEM 1411 or 1311/1111
- CHEM 1412 or 1312/1112
- Any CHEM numbered at least 2000 or one course that fulfills the Life & Physical Sciences core requirement (listed below).

Option III. Physics Emphasis

- PHYS 2425 or 2325/2125
- PHYS 2426 or 2326/2126
- Any PHYS numbered at least 2000 one course that fulfills the Life & Physical Sciences core requirement (listed below).

Life and Physical Sciences.

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|--------------------------|--------------------------|
| • ANTH 2301 | • GEOL 1401 |
| • ASTR or PHYS 1403 | • GEOL 1303/1103 or 1403 |
| • ASTR or PHYS 1404 | • PHYS 1301 or 1401 |
| • BIOL 1306 or 1406 | • PHYS 1302 or 1402 |
| • BIOL 1307 or 1407 | • PHYS 1410 |
| • BIOL 1308/1108 or 1408 | • PHYS 1415 |
| • BIOL 2301 or 2401 | • PHYS 2325 or 2425 |
| • BIOL 2302 or 2402 | • PHYS 2326 or 2426 |
| • BIOL 2306/2106 or 2406 | |



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B.S. Mathematics: Laboratory Sciences (cont.)

Option IV. Students double majoring in mathematics and another discipline (typically biology, chemistry, physics or engineering) that requires at least 12 hours of laboratory science intended for science and engineering majors may use the same laboratory science courses that satisfy the requirements for the other major to satisfy the laboratory science requirement for the mathematics major.

Option V. Students with a minor in geography or geology may use **GEOL 1401** and **GEOL 1403**, and **PHYS 2425** or **2325/2125** or **CHEM 1411** or **1311/1111**.

B.S. Mathematics: Foreign Language

Students may complete either of two options to satisfy the foreign language requirement:

Option I: Proficiency in a foreign language equivalent to 1412. Students are encouraged to study Spanish.

Option II: Complete 6 hours of technical writing courses from the following: **ENGL 2311** (also fulfills a portion of the Communication core requirement) and one advanced level **TECM** course option at UNT from approved list.

B.S. Mathematics: Computer Programming

- **COSC 1315** or **1336** or **1436**

Students taking mathematics courses at the 2000-level or above are expected to be competent in computer programming, using languages such as BASIC, C, C++, Fortran, PASCAL or Java. Students are encouraged to complete the programming requirement during their freshman or sophomore year. Students who have acquired a solid programming competency in a non-academic setting, such as through work experience, may demonstrate their programming competency by passing a departmental exam in place of the **COSC 1315** or **1336** or **1436** course requirement.

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 the current [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: Mathematics (7-12)

Additional requirements for Teacher Certification in Mathematics 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 www.cos.unt.edu/advising.