



College of Science

B.S. Mathematics with Secondary Teacher Certification

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
ENGL 1310	ENGL 1301	ENGL 1320 or TECM 2700	ENGL 1302 or 2311
MATH 1710 ¹	MATH 2313 or 2413	MATH 1720 ¹	MATH 2314 or 2414
MATH 2000	MATH 2305	MATH 2100	N/A
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
TNTX 1100 ²	N/A	TNTX 1200 ²	N/A
Foreign Language Option I or II	Consult UNT advisor	Foreign Language Option I or II	Consult UNT advisor

Second Year Fall		Second Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
EDCI 3500 ²	N/A	UNT Core: Creative Arts	See list of approved courses
MATH 2700	MATH 2318 or 2418	UNT Core: Language, Philosophy & Culture	See list of approved courses
MATH 2730	MATH 2315 or 2415	CSCE 1010 or 1020 or 1030	COSC 1315 or 1336 or 1436
MATH 3850	N/A	MATH 3000	N/A
Laboratory Science Option ⁴	Consult UNT advisor	Laboratory Science Option ⁴	Consult UNT advisor

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
MATH 3510 or 3610 ³	N/A	EDCI 4000 ²	N/A
MATH 3680	N/A	EDCI 4060	N/A
TNTX 3100	N/A	MATH 4060	N/A
Laboratory Science Option ⁴	Consult UNT advisor	MATH Analysis or Algebra Course ³ (Advanced)	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.

³ Analysis course options are **MATH 3350, 3410, 3420, 3610, 3740, 4080, 4100, 4200, or 4520**. Algebra course options are **MATH 3400, 3510, 4010, 4430, 4450, or 4510**. Note that **MATH 3510 or 3610** must be taken in satisfying the analysis or algebra requirements.

⁴ If the three laboratory courses do not total to be 10 hours, then the student will need to take another elective to reach the 120 required hours for the degree.



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Fourth Year Fall		Fourth Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
UNT Core: Social & Behavioral Sciences	See list of approved courses	EDCI 4608 ² (Student Teaching I)	N/A
UNT Core: Core Option Course or Elective	See list of approved courses or Consult UNT advisor	EDCI 4618 ² (Student Teaching II)	N/A
EDCI 4500 ²	N/A	EDCI 4628 ² (Student Teaching Seminar)	N/A
MATH 4050	N/A		
MATH Elective (3350 or higher) ⁵	N/A		
MATH Elective (3350 or higher) ⁵	N/A		

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

⁵ Recommended math electives are **MATH** 3400, 3410, 3740, 4450, 4610, and 4650.



College of Science

B.S. Mathematics with Secondary Teacher Certification

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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.

ENGL 1301 and 2311 are recommended.

UNT Core: Mathematics

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

UNT Core: Life and Physical Sciences

This requirement will be met by fulfilling the B.S. Mathematics (Teacher Certification) 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**; **CRJI 1301**; **ECON 2301** or **2302**; **GEOG 1303**; **PSYC 2301** or **2330**; **SOCI 1301**; **SOCW 2361**; **SPCH 1318**; **TECA 1354**

UNT Core: Core Option Courses

One course for this requirement will be met by fulfilling the B.S. Mathematics (Teacher Certification) major requirements. In addition, complete one course from Core Option A or Option B.

Option A: **ANTH 2401** or **2301/2101**, **2346**, or **2351**; **ARTS 1301**, **1303** or **1304**; **ASTR 1403** or **1404**; **BIOL 1306** or **1406**, **1307** or **1407**, **1322**, **1408** or **1308/1108**, **2301** or **2401**, **2302** or **2402**, **2406** or **2306/2106**; **BUSI 1307** or **2305**; **CHEM 1311** or **1411**, **1312** or **1412**; **COMM 1307** or **2300**; **CRJI 1301**; **DRAM 1310**; **ECON 2301** or **2302**; **ENGL 1301**, **1302**, **2311**, **2321**, **2326**, **2331**, **2341**, or **2351**; **GEOG 1303**; **GEOL 1401** or **1403**; **HECO 1322**; **HIST 1301**, **1302**, **2301**, **2321**, or **2322**; **MATH 1324**, **1325**, **1332**, **1342**, **2312** or **2412**; **MUSI 1306** or **1307**; **PHIL 1301**, **1304**, **2303**, or **2306**; **PHYS 1301** or **1401**, **1302** or **1402**, **1403**, **1404**, **1410**, **1415**, **2325** or **2425**, or **2326** or **2426**; **PSYC 2301** or **2330**; **SOCI 1301**; **SOCW 2361**; **SPCH 1315**, **1318** or **2341**; **TECA 1354**

Option B: **COMM 2302**; **SPCH 1311**; **TECA 1303**

CSCE 1010 (at UNT only) is an option for the major and will fulfill 3 hours of this requirement.

The additional 3 hours needed may be fulfilled depending on which Laboratory Science option is chosen. Consult UNT advisor for more information.

Mathematics (Teacher Certification): Major Requirements

TCCNS options:

- **MATH 2305**
- **MATH 2313** or **2413** (also fulfills the Mathematics core requirement)
- **MATH 2314** or **2414**
- **MATH 2315** or **2415**
- **MATH 2318** or **2418**

Students must achieve a grade point average of at least 2.0 in all mathematics courses which are applied toward a mathematics major and are numbered 3350 or above.

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

Mathematics (Teacher Certification): Laboratory Sciences

TCCNS options:

Option I: Biology Emphasis

- **BIOL 1106/1306** or **1406** (approved substitution)
- **BIOL 1107/1307** or **1407** (approved substitution)
- **PHYS 2125/2325** or **2425**, or **CHEM 1111/1311** or **1411**

Option II: Chemistry Emphasis

- **CHEM 1111/1311** or **1411**
- **CHEM 1112/1312** or **1412**
- One additional course that meets the University Core Curriculum requirement for the natural sciences, or any 3 hours from **CHEM** numbered at least 2000

Option III: Physics Emphasis

- **PHYS 2125/2325** or **2425**
- **PHYS 2126/2326** or **2426**
- One additional course that meets the University Core Curriculum requirement for the natural sciences, or any 3 hours from **PHYS** numbered at least 2000

Option IV: Double-Major Students

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: Geography/Geology Minor Students

To satisfy the laboratory science requirement for the mathematics major, students with a minor in geography or geology may use:

- **GEOL 1401**
- **GEOL 1403**
- **PHYS 2125/2325** or **2425**, or **CHEM 1111/1311** or **1411**

Three laboratory science courses are required. Two out of the three courses will also fulfill the Life & Physical Sciences core requirement and one course may fulfill 3 hours of the Core Option Course requirement.



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Mathematics (Teacher Certification): Foreign Language

TCCNS options:

- Foreign Language 1411 & 1412
- **ENGL 2311**

Students may complete either of two options to satisfy the College of Science foreign language requirement.

Option I: Proficiency in a foreign language equivalent to 1412 is required.

Students are encouraged to choose Spanish for the foreign language requirement.

Option II: Complete 6 hours of technical writing courses from **TECM 2700 (ENGL 2311)**, 4180, 4190, 4250, or 4700.

Mathematics (Teacher Certification): Computer Programming

TCCNS options:

- **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 course requirement.

Mathematics (Teacher Certification): 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.

Mathematics: 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 Mathematics 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 Mathematics 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>.