



# College of Science

## *B.A. 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 <sup>1</sup>	MATH 2313 or 2413	MATH 1720 <sup>1</sup>	MATH 2314 or 2414
MATH 2000	MATH 2305	MATH 2100	N/A
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
TNTX 1100 <sup>2</sup>	N/A	TNTX 1200 <sup>2</sup>	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
CSCE 1010 or 1020 or 1030	COSC 1315 or 1336 or 1436	UNT Core: Creative Arts	<a href="#">See list of approved courses</a>
MATH 2700	MATH 2318 or 2418	UNT Core: Language, Philosophy & Culture	<a href="#">See list of approved courses</a>
MATH 2730	MATH 2315 or 2415	EDCI 4060	N/A
MATH 3850	N/A	MATH 3000	N/A
Laboratory Science Option <sup>4</sup>	Consult UNT advisor	Laboratory Science Option <sup>4</sup>	Consult UNT advisor

Third Year Fall		Third Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
UNT Core: American History	<a href="#">See list of approved courses</a>	UNT Core: American History	<a href="#">See list of approved courses</a>
EDCI 3500 <sup>2</sup>	N/A	EDCI 4000 <sup>2</sup>	N/A
MATH 3510 or 3610 <sup>3</sup>	N/A	MATH 4060	N/A
MATH 3680	N/A	MATH Analysis or Algebra Course (Advanced) <sup>3</sup>	N/A
TNTX 3100	N/A	Elective	Consult UNT advisor
Laboratory Science Option <sup>4</sup>	Consult UNT advisor		

<sup>1</sup> 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.

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

<sup>3</sup> 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.

<sup>4</sup> 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	<a href="#">See list of approved courses</a>	EDCI 4608 <sup>2</sup> (Student Teaching I)	N/A
EDCI 4500 <sup>2</sup>	N/A	EDCI 4618 <sup>2</sup> (Student Teaching II)	N/A
MATH 4050	N/A	EDCI 4628 <sup>2</sup> (Student Teaching Seminar)	N/A
Elective	Consult UNT advisor		
Elective	Consult UNT advisor		

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



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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.A. Mathematics (Teacher Certification) major requirements.

### UNT Core: Life and Physical Sciences

This requirement will be met by fulfilling the B.A. 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**; **CRJ 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.A. Mathematics (Teacher Certification) major requirements.

### 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.A. Mathematics (Teacher Certification) major.*

### Mathematics (Teacher Certification): Laboratory Sciences

TCCNS options:

Group I - Complete one of the following:

- **PHYS 2125/2325** or **2425**
- **CHEM 1111/1311** or **1411**

Group II - Complete one of the following:

- **CHEM 1111/1311** or **1411**
- **CHEM 1112/1312** or **1412**
- **PHYS 2125/2325** or **2425**
- **PHYS 2126/2326** or **2426**

Group III - Complete one course that meets the University Core Curriculum for the Life & Physical Sciences requirement:

- |  |                    |
|--|--------------------|
| • <b>ANTH 2401</b> or <b>2301/2101</b> | • <b>GEOL 1403</b> |
| • <b>ASTR 1403</b>                     | • <b>PHYS 1403</b> |
| • <b>ASTR 1404</b>                     | • <b>PHYS 1404</b> |
| • <b>BIOL 1408</b> or <b>1308/1108</b> | • <b>PHYS 1410</b> |
| • <b>BIOL 2406</b> or <b>2306/2106</b> | • <b>PHYS 1415</b> |
| • <b>GEOL 1401</b>                     |                    |

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

### 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 intending to pursue a graduate degree in mathematics are encouraged to study French, German or Russian. Students may take **SPAN 1030** (at UNT only) in place of **SPAN 1010** (**SPAN 1411**) and **SPAN 1020** (**SPAN 1412**).

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



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#### 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 Arts 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>.