



# College of Science

## *B.A. Mathematics, Secondary-Level Teacher Certification (Grades 7-12) Mathematics & Physics*

### 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	PHYS 1710/1730	PHYS 2425 or 2325/2125
Foreign Language Option I or II	Consult UNT advisor	Foreign Language Option I or II	Consult UNT advisor
MATH 1710	MATH 2313 or 2413	MATH 1720	MATH 2314 or 2414
MATH 2000	MATH 2305 or 2405	ENGL 1320 or TECM 2700 (TECM 2700 is recommended)	ENGL 1302 or 2311
TNTX 1100*	N/A	TNTX 1200*	N/A
UNT Core: Creative Arts	<a href="#">See list of approved courses</a>	MATH 2100	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
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
MATH 2700	MATH 2318 or 2418	CSCE 1010 or 1020 or 1030	COSC 1315 or 1336 or 1436
MATH 2730	MATH 2315 or 2415	MATH 3680	N/A
PHYS 2220/2240	PHYS 2426 or 2326/2126	MATH 3000	N/A
EDCI 3500*	N/A	PHYS 3010/3030	N/A

THIRD YEAR FALL		THIRD YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MATH 3510 or 3610	N/A	UNT Core: American History	<a href="#">See list of approved courses</a>
EDCI 4060	N/A	UNT Core: Core Option Course	<a href="#">See list of approved courses</a>
MATH 4050	N/A	MATH 3850	N/A
EDCI 4000*	N/A	MATH 4060	N/A
UNT Core: American History	<a href="#">See list of approved courses</a>	TNTX 3100	N/A

FOURTH YEAR FALL		FOURTH YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
Analysis or Algebra Elective (Advanced)	N/A	EDCI 4608* (Student Teaching I)	N/A
Elective	Consult UNT advisor	EDCI 4618* (Student Teaching II)	N/A
EDCI 4500*	N/A	EDCI 4628* (Student Teaching Seminar)	N/A
UNT Core: Language, Philosophy, & Culture	<a href="#">See list of approved courses</a>		
UNT Core: Social & Behavioral Sciences	<a href="#">See list of approved courses</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.A. Mathematics program requirement (see next column).

##### UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the B.A. Mathematics program science requirement (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

One course for this requirement will partially be met by fulfilling the B.A. Mathematics program requirements (see next column). In addition, complete one course from Option A OR Option B.

**Option A:** **ANTH 2301**, **2346**, or **2351**; **ARTS 1301**, **1303** or **1304**; **ASTR 1403** or **1404**; **BIOL 1306** or **1406**, **1307** or **1407**, **1322**, **1308** or **1408**, **2301** or **2401**, **2302** or **2402**, **2306** or **2406**; **CHEM 1311** or **1411**, **1312** or **1412**; **COMM 1307** or **2300**; **CRIJ 1301**; **DRAM 1310**; **ECON 2301** or **2302**; **ENGL 1301**, **1302**, **2311**, **2321**, **2326**, **2331**, **2332**, **2333**, **2341**, or **2351**; **GEOG 1303**; **GEOL 1401** or **1403**; **HECO 1322**; **HIST 1301**, **1302**, **2321**, or **2322**; **MATH 1316**, **1324**, **1325**, **1332**, **1342** or **1442**, **1350**, **2312** or **2412**, **2313** or **2413**, **2314** or **2414**; **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**

##### College of Science Core: Breadth Requirement

Students pursuing the Bachelor of Arts must complete four classes (minimum 3 hours each) from classes outside of the College of Science. These classes may not be simultaneously applied to University Core Curriculum requirements.

This requirement will be deemed complete for Bachelor of Arts students that complete the Teach North Texas program.

##### B.A. Mathematics: Major Requirements

###### Math

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

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

###### Physics

- **PHYS 2425** or **2325/2125**
- **PHYS 2426** or **2326/2126**

**PHYS 2425** and **2426** also fulfill the Life & Physical Sciences core requirement.

###### Advanced Mathematics Courses

No TCCNS options available.

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

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

##### B.A. Mathematics: Foreign Language

Students may complete either of two options to satisfy the Mathematics Foreign Language requirement:

**Option I:** Proficiency in a foreign language equivalent to 1412. Students intending to pursue a graduate degree in mathematics are encouraged to study French, German or Russian.

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



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##### B.A. 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: 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: Physics/Mathematics (7-12)

Additional requirements for Teacher Certification in Mathematics and Physics 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 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 Advising Center website at [cos.unt.edu/advising](http://cos.unt.edu/advising).