



College of Science

B.A. Mathematics

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	CSCE 1010 or 1020 or 1030	COSC 1315 or 1336 or 1436
UNT Core: Creative Arts	See list of approved courses	MATH 1720	MATH 2314 or 2414
MATH 1710	MATH 2313 or 2413	ENGL 1320 or TECM 2700 (TECM 2700 is recommended)	ENGL 1302 or 2311
PSCI 2305	GOVT 2305	B.A. Math: Laboratory Science	See list of approved courses
MATH 2000	MATH 2305 or 2405		

SECOND YEAR FALL		SECOND 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 2700	MATH 2318 or 2418	MATH 3000	N/A
MATH 2730	MATH 2315 or 2415	MATH Depth Elective (Advanced)	N/A
B.A. Math: Laboratory Science	See list of approved courses	B.A. Math: Laboratory Science	See list of approved courses
UNT Core: Language, Philosophy, & Culture	See list of approved courses	Minor	Consult UNT advisor

THIRD YEAR FALL		THIRD YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MATH 3510 or 3610	N/A	Minor	Consult UNT advisor
MATH Breadth Elective (Advanced)	N/A	MATH Depth or Breadth Elective (Advanced)	N/A
PSCI 2306	GOVT 2306	Elective	Consult UNT advisor
Minor	Consult UNT advisor	Minor (Advanced)	N/A
Elective	Consult UNT advisor	UNT Core: Social & Behavioral Science	See list of approved courses

FOURTH YEAR FALL		FOURTH YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MATH Breadth Elective (Advanced)	N/A	MATH Elective (3350 or higher)	N/A
Elective (Advanced)	N/A	Elective (Advanced)	N/A
Minor (Advanced)	N/A	Elective (Advanced)	N/A
Foreign Language Option I or II	Consult UNT advisor	Foreign Language Option I or II	Consult UNT advisor
Elective	Consult UNT advisor	Minor	Consult UNT advisor



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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 laboratory science program 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

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

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.

Students are encouraged to use these 12 hours to add value to their degree by applying them to a certificate, minor or second major that will support their goals, in consultation with the COS Advising Center.

This requirement will be deemed complete for Bachelor of Arts students who attain any foreign language 2311 and 2312. Courses must be taken in the same language.

NOTE: Prerequisites for foreign language 2311 and 2312 courses are 1411 and 1412. Placement exams may be available; see your community college academic advisor for details. Students who graduated from a high school outside the United States at which English was not the primary language should ask the COS Advising Center about eligibility for waiving this requirement.

B.A. Mathematics: Major Requirements

- 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 partially fulfills the Core Option 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: Laboratory Sciences

The College of Science major in mathematics requires students to complete at least 11 hours of laboratory sciences. These will fulfill the Life & Physical Sciences, and may also fulfill part of the Core Option core requirements.

Group I: Complete one of the following laboratory courses:

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

Mathematics majors with a minor in geography or geology may also choose GEOL 1401 and GEOL 1403.

Group II: Complete one of the following laboratory courses:

**** Approved substitution**

- BIOL 1406 or 1306/1106**
- CHEM 1411 or 1311/1111
- CHEM 1412 or 1312/1112
- PHYS 2425 or 2325/2125
- PHYS 2426 or 2326/2126

Group III: Complete one of the following laboratory courses.

- | | |
|---------------------|---------------------|
| • ANTH 2301 | • CHEM 1312 or 1412 |
| • ASTR or PHYS 1403 | • GEOL 1401 |
| • ASTR or PHYS 1404 | • GEOL 1403 |
| • BIOL 1306 or 1406 | • PHYS 1301 or 1401 |
| • BIOL 1307 or 1407 | • PHYS 1302 or 1402 |
| • BIOL 1308 or 1408 | • PHYS 1410 |
| • BIOL 2301 or 2401 | • PHYS 1415 |
| • BIOL 2302 or 2402 | • PHYS 2325 or 2425 |
| • BIOL 2306 or 2406 | • PHYS 2326 or 2426 |
| • CHEM 1311 or 1411 | |

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 www.cos.unt.edu/advising.

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.

Minor (Required)

One of the following is required:

- A minor of at least 18 hours (6 advanced).
- Completion of a second major in addition to mathematics.
- Completion of the certificate program in actuarial science.
- Completion of the certificate program in data analytics.

Teacher Certification Option

The College of Science encourages students to explore teaching at the secondary level as a career option. A higher GPA may be required for the certification option. For more information contact your advisor.