



# College of Science

## *B.S. Mathematics with a concentration in Computer Science*

### 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	UNT Core: Creative Arts	<a href="#">See list of approved courses</a>
CSCE 1010	N/A	CSCE 1030	COSC 1336 or 1436
MATH 1710	MATH 2313 or 2413	ENGL 1320 or TECM 2700	ENGL 1302 or 2311
MATH 2000	MATH 2305	MATH 1720	MATH 2314 or 2414
Laboratory Science Option <sup>2</sup>	Consult UNT advisor	Laboratory Science Option <sup>2</sup>	Consult UNT advisor

Second Year Fall		Second 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>
CSCE 1040	COSC 1337 or 1437	CSCE 2100	N/A
MATH 2700	MATH 2318 or 2418	MATH 2730	MATH 2315 or 2415
Laboratory Science Option <sup>2</sup>	Consult UNT advisor	MATH 3000	N/A
Foreign Language Option I or II	Consult UNT advisor	Foreign Language Option I or II	Consult UNT advisor

Third Year Fall		Third Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
CSCE 2110	COSC 2336 or 2436	UNT Core: Language, Philosophy & Culture	<a href="#">See list of approved courses</a>
MATH 3680 or ADTA 4130	N/A	ADTA 4230	N/A
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
Advanced CSCE Elective	N/A	Advanced CSCE Elective	N/A
Advanced MATH Elective	N/A	Advanced MATH Elective	N/A

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>	ADTA 4250	N/A
ADTA 4240	N/A	ADTA 4340	N/A
Advanced CSCE or MATH Elective	N/A	Advanced Elective	N/A
Elective	Consult UNT advisor	Advanced Elective <sup>1</sup>	N/A
Elective	Consult UNT advisor		

<sup>1</sup> The number of advanced electives needed will depend on the student's course selection. Consult your UNT advisor for more information.

<sup>2</sup> If the three laboratory courses do not total to be 11 hours, then the student will need to take another elective to reach the 120 required hours for the degree.



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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 (Computer Science) major requirements.

### UNT Core: Life and Physical Sciences

This requirement will be met by fulfilling the B.S. Mathematics (Computer Science) 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**; **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 (Computer Science) major requirements.

### Mathematics (Computer Science): Major Requirements

TCCNS options:

- **COSC 1336** or **1436**
- **COSC 1337** or **1437**
- **COSC 2336** or **2436**
- **MATH 2305**
- **MATH 2313** or **2413** (also fulfills the Mathematics core requirement)
- **MATH 2314** or **2414** (also fulfills a portion of the Core Option Courses core requirement)
- **MATH 2315** or **2415**
- **MATH 2318** or **2418**

Students must achieve a grade point average of at least 2.0 in the Math and Computer Science electives.

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

### Mathematics (Computer Science): 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 (Computer Science) 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.

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#### Mathematics (Computer Science): 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.

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

#### Mathematics (Computer Science): Required Certificate

The Data Analytics Undergraduate Certificate is required.

#### 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>.