



College of Engineering
B.A. Information Technology
Non-Teacher Certification Option

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.

UNT Courses noted (#) do not have TCCNS equivalents, but have approved transferable substitutions.

| FIRST YEAR FALL | | FIRST YEAR SPRING | |
|--|---|--|--|
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| MATH 1710 | MATH 2313 or 2413 | PHYS 1710/1730 | PHYS 2425 or 2325/2125 |
| CHEM 1410/1430 or 1415/1435; or BIOL 1710/1760 | CHEM 1411 or 1311/1111 or BIOL 1406 or 1106/1306# | CSCE 1045# | COSC 1337 or 1437 |
| CSCE 1035# | COSC 1336 or 1436 | TECM 2700 | ENGL 2311 |
| ENGL 1310 | ENGL 1301 | UNT Core: Language, Philosophy and Culture | See list of approved courses |
| PSCI 2305 | GOVT 2305 | UNT Core: Core Option | See list of approved courses |

| SECOND YEAR FALL | | SECOND YEAR SPRING | |
|---------------------------------------|--|----------------------------|--|
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| MATH 1680 or 1780 or 3680 | MATH 1342 or 1442 | PSCI 2306 | GOVT 2306 |
| CSCE 2100# | MATH 2305 | UNT Core: Creative Arts | See list of approved courses |
| UNT Core: Social & Behavioral Science | See list of approved courses | UNT Core: American History | See list of approved courses |
| UNT Core: American History | See list of approved courses | Supporting Area | N/A |
| CSCE 2110 | COSC 2336 or 2436 | CSCE 3600 | N/A |

| THIRD YEAR FALL | | THIRD YEAR SPRING | |
|-----------------|--------------|-------------------|--------------|
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| CSCE 3055 | N/A | CSCE 3605 | N/A |
| CSCE 3220 | N/A | CSCE 3615 | N/A |
| CSCE 3420 | N/A | CSCE 4010 | N/A |
| CSCE 3530 | N/A | CSCE 4350 | N/A |
| Supporting Area | N/A | Supporting Area | N/A |

| FOURTH YEAR FALL | | FOURTH YEAR SPRING | |
|------------------|--------------|--------------------|--------------|
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| CSCE 4355 | N/A | CSCE 4925 | N/A |
| CSCE 3550 | N/A | Supporting Area | N/A |
| CSCE 4905 | N/A | Supporting Area | N/A |
| CSCE 4535 | N/A | Supporting Area | N/A |
| Supporting Area | N/A | Supporting Area | N/A |



College of Engineering

B.A. Information Technology, Teacher Certification Option

Secondary Education Certification in Computer Science Grades (7-12)

2023-2024 Texas Common Course Numbering System Transfer Guide

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UNT Courses noted (#) do not have TCCNS equivalents, but have approved transferable substitutions.

| FIRST YEAR FALL | | FIRST YEAR SPRING | |
|---|--|-----------------------|--|
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| MATH 1710 | MATH 2313 or 2413 | PHYS 1710/1730 | PHYS 2425 or 2325/2125 |
| ENGL 1310 | ENGL 1301 | CSCE 1040 | COSC 1337 or 1437 |
| CSCE 1030 | COSC 1336 or 1436 | TECM 2700 | ENGL 2311 |
| CHEM 1410/1430 or 1415/1435; or BIOL 1710#/1760 | CHEM 1411 or 1311/1111 or BIOL 1406 or 1106/1306 | PSCI 2306 | GOVT 2306 |
| PSCI 2305 | GOVT 2305 | UNT Core: Core Option | See list of approved courses |

| SECOND YEAR FALL | | SECOND YEAR SPRING | |
|---|--|---------------------------------------|--|
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| MATH 1680 or 1780 or 3680 | MATH 1342 or 1442 | UNT Core: Creative Arts | See list of approved courses |
| CSCE 2100# | MATH 2305 | UNT Core: American History | See list of approved courses |
| CSCE 2110 | COSC 2336 or 2436 | UNT Core: Social & Behavioral Science | See list of approved courses |
| UNT Core: American History | See list of approved courses | EDCI 3500* | N/A |
| UNT Core: Language, Philosophy, and Culture | See list of approved courses | CSCE 3600 | N/A |
| TNTX 1100* | N/A | TNTX 1200* | N/A |

| THIRD YEAR FALL | | THIRD YEAR SPRING | |
|-----------------|--------------|-------------------|--------------|
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| CSCE 3055 | N/A | CSCE 3605 | N/A |
| CSCE 3220 | N/A | CSCE 4010 | N/A |
| CSCE 3420 | N/A | CSCE 4350 | N/A |
| CSCE 3530 | N/A | EDCI 4000* | N/A |
| EDCI 4060 | N/A | CSCE 3444 | N/A |

| FOURTH YEAR FALL | | FOURTH YEAR SPRING | |
|------------------|--------------|---------------------------------------|--------------|
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| CSCE 4535 | N/A | CSCE 4925 | N/A |
| CSCE 4355 | N/A | EDCI 4608* (Student Teaching I) | N/A |
| CSCE 3550 | N/A | EDCI 4618* (Student Teaching II) | N/A |
| CSCE 4905 | N/A | EDCI 4628* (Student Teaching Seminar) | N/A |
| EDCI 4500* | N/A | | |

* Students must be admitted to Teach North Texas Program prior to enrolling in certain Education courses.



College of Engineering

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Teacher Certification & Non-Certification Options

2023-2024 Texas Common Course Numbering System Transfer Guide

- Admission to the university does not guarantee admission to the College of Engineering. To be admitted to the College of Engineering, students must meet the requirements listed under "Admission Requirements".
- Please refer to the four-year plan on page one for a recommended schedule. Students interested in completing an associate's degree at a community college may consult with a College of Engineering advisor about concurrent enrollment options.

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 required for B.A. Information Technology majors.

UNT Core: Mathematics

This requirement will be met by fulfilling the B.A. Information Technology program requirements (see net column).

UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the B.A. Information Technology requirement (see next column).

UNT Core: American History

Two courses from: **HIST 1301, 1302, 2301**

UNT Core: Government/Political Science

GOVT 2305 and **2306**

UNT Core: Creative Arts

One course from: **ARTS 1301** or **1304**; **DRAM 1310**; **MUSI 1306** or **1307**; **SPCH 2341**

UNT Core: Language, Philosophy and Culture

One course 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 be met by fulfilling the B.A. Information Technology program requirements (see next column).

In addition, choose one course from the list below.

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**

Information Technology: Major Requirements

TCCNS options:

- **COSC 1336** or **1436** (teacher certification only)
- **COSC 1337** or **1437** (teacher certification only)
- **COSC 2336** or **2436**
- **MATH 2305** (approved substitution)

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

Information Technology: Other Course Requirements

TCCNS options:

Required course in Technical Writing:

- **ENGL 2311** (also fulfills portion of Communication core requirements)

Required course in mathematics:

- **MATH 1342** or **1442** (fulfills both Mathematics core and major requirements)
- **MATH 2313** or **2413** (fulfills both Mathematics core and major requirements)

Math courses listed above also fulfill Mathematic core and a portion of Core Option core requirements.

Required courses in laboratory science:

- **CHEM 1411** or **1311/1111** or **BIOL 1406** or **1106/1306**
- **PHYS 2425** or **2325/2125**

Laboratory Science courses listed above fulfill Life and Physical Sciences core and a portion of Core Option core requirements.

A grade of 'C' or better is required for all major courses and other courses requirements.

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



College of Engineering

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College of Engineering: Admission Requirements

Admissions to the College of Engineering is contingent on clear admissions to the university.

Freshman applicants will be admitted to the College of Engineering in an Engineering program based on their high school graduation rank and SAT/ACT scores. See below for the full requirements:

| | ACT | SAT (Feb '16 or prior) | SAT (March '16 or after) |
|-------------------|--|---|---|
| Top 25% | Math score of 23+ and a composite score of 23+ | Math score of 570+ and a total score of 1070+ | Math score of 590+ and a total score of 1140+ |
| Top 50% | Math score of 24+ and a composite score of 24+ | Math score of 600+ and a total score of 1100+ | Math score of 620+ and a total score of 1170+ |
| Below 50% | Math score of 26+ and a composite score of 26+ | Math score of 630+ and a total score of 1180+ | Math score of 650+ and a total score of 1250+ |
| No Ranking | Math score of 24+ and a composite score of 24+ | Math score of 600+ and a total score of 1100+ | Math score of 620+ and a total score of 1170+ |

Engineering Technology Programs: Freshman applicants to the Construction Engineering Technology or Mechanical Engineering Technology programs must have a math SAT score of 570 or better, or a math ACT score of 22 or better.

Construction Management: Freshman applicants to the Construction Management program are automatically admitted when their admissions to the university is met.

Math Courses: Enrollment in mathematics classes for entering freshmen will be determined in accordance with criteria established by the Department of Mathematics.

Transfer, International and Post-Baccalaureate: Transfer applicants must have a minimum 2.0 GPA in math/science/engineering courses and be eligible to enroll in MATH 1710 (Calculus I; TCCNS: MATH 2313 or 2413) or higher. MATH 1650 (Pre-Calculus; TCCNS: MATH 2312 or 2412) completed with a grade of 'C' or higher is a prerequisite to enroll in MATH 1710/Calculus I.

Students not meeting the admission requirements for the major to be directly enrolled in a degree major in the College of Engineering will be supported through enrollment as a pre-major in their corresponding program.

Students classified as pre-majors will be reclassified into their respective major within the College of Engineering upon completing the corresponding course listed below with a 'C' or higher and a student in good standing:

| Pre-major | Grade of 'C' or higher |
|---|------------------------|
| Pre-Computer Science | CSCE 1030 |
| Pre-Information Technology | CSCE 1030 |
| Pre-Computer Engineering | CSCE 1030 |
| Pre-Electrical Engineering | MATH 1710 |
| Pre-Mechanical and Energy Engineering | MATH 1710 |
| Pre-Biomedical Engineering | MATH 1710 |
| Pre-Materials Science and Engineering | MATH 1710 |
| Pre-Mechanical Engineering Technology | MATH 1710 |
| Pre-Construction Engineering Technology | MATH 1710 |

Teacher Certification Option

The College of Engineering offers the Bachelor of Arts degree with major in Information Technology leading to certification in Computer Science.

A minor in Mathematics and Science Secondary Teaching administered by Teach North Texas is required for the certification in Computer Science.

Teach North Texas Minor Requirements: Students must complete the required 22 hours for the 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. No TCCNS options available for Teach North Texas requirements.

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: 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: Computer Science (7-12)

Additional requirements for Teacher Certification in Computer Science include a 2.5 overall GPA (including all transferred courses), a 2.5 UNT GPA and a 2.5 major GPA.

For information about this option, please contact the College of Engineering.

*Information Technology: Recommendation for COSC

TCCNS options:

- COSC 1336 or 1436
- COSC 1337 or 1437

Due to the content of COSC 1035 and 1045 at UNT, it is in the student's best interest to take both Freshman COSC courses at a community college before transferring to the Information Technology program.

If only COSC 1336 or 1436 is taken, the student may have to take additional CSCI coursework at UNT before being allowed to continue with the program.



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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 degree as specified in the general university requirements section of the UNT catalog and the College of Engineering 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 Engineering 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 Engineering Student Advising website at <http://engineering.unt.edu/advising>.