College of Engineering
B.S. Computer Science
2019-2020 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.

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
FRESHMAN	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720	MATH 2314 or 2414
	CHEM 1410/1430	CHEM 1411 or 1311/1111	PHYS 1710/1730	PHYS 2425 or 2325/2125
	CSCE 1030	COSC 1336 or 1436	CSCE 1040	COSC 1337 or 1437
	ENGL 1310	ENGL 1301	TECM 2700	ENGL 2311
	CHEM 1420 & 1440 or BIOL 1710 & 1760	CHEM 1412 or 1312/1112 or BIOL 1406 or 1106/1306#	Elective	Consult UNT advisor

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SOPHOMORE	PHYS 2220/2240	PHYS 2426 or 2326/2126	MATH 1780	None
	CSCE 2100	None		
	EENG 2710		CSCE 2610	COSC 2325 OR 2425
	UNT Core: Language, Philosophy and Culture	See list of approved courses	CSCE 2110	COSC 2336 or 2436
	UNT Core: Social & Behavioral Sciences	See list of approved courses	CSCE 3600	None

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	MATH 2700	MATH 2318 or 2418	CSCE Elective (advanced)	None
	CSCE Elective (advanced)	None	CSCE Capstone or Thesis Option	
	CSCE 3444		CSCE Core (advanced)	
	CSCE 3110		UNT Core: Creative Arts	See list of approved courses
	UNT Core: American History	See list of approved courses	UNT Core: American History	See list of approved courses

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	CSCE 4110	None	CSCE 4010	None
	CSCE Core (advanced)		CSCE Breadth (advanced)	
	CSCE Breadth (advanced)		CSCE Capstone or Thesis Option	
	TECM 4000 Level			
	PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306

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YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
F R E S H M A N	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720	MATH 2314 or 2414
	CHEM 1410/1430	CHEM 1411 or 1311/1111	PHYS 1710/1730	PHYS 2425 or 2325/2125
	CSCE 1030	COSC 1336 or 1436	CSCE 1040	COSC 1337 or 1437
	ENGL 1310	ENGL 1301	TECM 2700	ENGL 2311
	CHEM 1420 & 1440 or BIOL 1710 & 1760	CHEM 1412 or 1312/1112 or BIOL 1406 or 1106/1306#	UNT Core: Component Area Option	See list of approved courses

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
S O P H O M O R E	PHYS 2220/2240	PHYS 2426 or 2326/2126	MATH 1780	None
	CSCE 2100	None	CSCE 3600	
	EENG 2710		CSCE 2610	COSC 2325 OR 2425
	PHIL 2600		CSCE 2110	COSC 2336 or 2436
	UNT Core: Social & Behavioral Sciences	See list of approved courses		
	UNT Core: American History	See list of approved courses	UNT Core: Creative Arts	See list of approved courses
	TNTX 1100* (1 hr)	None	TNTX 1200* (2 hrs)	None
	*** Students must be admitted to Teach North Texas Program prior to enrolling in certain Education courses ***			

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
J U N I O R	MATH 2700	MATH 2318 or 2418	CSCE Elective (advanced)	None
	CSCE Elective (advanced)	None	TECM 4000 Level	
	CSCE 3444		CSCE Core (advanced)	
	CSCE 3110		EDCI 4000*	
	EDCI 3500		PSCI 2306	GOVT 2306
	PSCI 2305	GOVT 2305	UNT Core: American History	See list of approved courses

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

Year	Fall Semester		Spring Semester	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
S E N I O R	CSCE 4110	None	CSCE 4010	None
	CSCE Breadth (advanced)		CSCE Capstone or Thesis Option	
	CSCE Capstone or Thesis Option		EDCI 4608* (Student Teaching I)	
	EDCI 4500*		EDCI 4618* (Student Teaching II)	
	CSCE Breadth (advanced)		EDCI 4628* (Student Teaching Seminar) (1 hr)	

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- 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" on page two.
- To complete the B.S. Computer Science degree within four years, students should plan to take Calculus I (MATH 2313 or 2413 or 2513) during the first semester of their freshman year, and CSCE 2100 (available at UNT only) during the first semester of their sophomore year. 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 all College of Engineering majors.

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; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

UNT Core: Mathematics

This requirement will be met by fulfilling the Computer Science program requirements (see "Other Course Requirements").

UNT Core: Component Area Option

This requirement will be met by fulfilling the B.S. in Computer Science program requirements (see "Other Course Requirements" below).

UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the Computer Science program requirements (see "Other Course Requirements").

Computer Science: Major Requirements

TCCNS options:

- COSC 1336 or 1436
- COSC 1337 or 1437
- COSC 2325 or 2425
- COSC 2336 or 2436

UNT Core: American History

Two courses chosen from: HIST 1301, 1302, 2301

Courses listed above are TCCNS options and do not include all courses required for the UNT Computer Science major.

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; SPCH 2341

UNT Core: Language, Philosophy and Culture

One course chosen from: ARTS 1303, ENGL 2332 or 2333; HIST 2321 or 2322; PHIL 1301, 1304, 2303, 2306, or 2316

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Computer Science: Other Course Requirements

TCCNS options:

Technical Writing

- ENGL 2311

Mathematics

- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and major requirements)
- MATH 2314 or 2414
- MATH 2318 or 2418

Laboratory Science

Part I - Required courses

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

Part II—Complete 8 hours from the list below:

- CHEM 1411 or 1311/111
- CHEM 1412 or 1312/1112 or BIOL 1406 or 1106/1306 (approved substitution)

BIOL, CHEM and PHYS courses listed above fulfill Life & Physical Sciences core, CAO core, and major requirements.

Courses listed above are TCCNS options and do not include all courses required for the UNT Computer Science major.

Computer Science: Other Requirements

The Computer Science Foundation courses are:

- COSC 1336 or 1436
- COSC 1337 or 1437
- MATH 2313 or 2413 or 2513
- ENGL 1301
- CSCE 2100 at UNT
- COSC 2336 or 2436
- ENGL 2311

Students must complete these foundation courses with a grade of C or better and a minimum GPA of 2.5. This is a prerequisite to taking advanced courses in the major. Each semester the student must receive advisement until the foundation courses have been successfully completed.

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:

1) Students in the top 25% of their class must meet one of the following requirements:
   A) Math ACT score of 23 or better and a composite ACT score of 23 or better
   B) If the SAT was taken February 2016 or before, Math SAT score of 570 or better and a total SAT score of 1070 or better
   C) If the SAT was taken March 2016 or later, Math SAT score of 590 or better and a total SAT score of 1140 or better

2) Students in the top 50% of their class must meet one of the following requirements:
   A) Math ACT score of 24 or better and a composite ACT score of 24 or better
   B) If the SAT was taken February 2016 or before, Math SAT score of 600 or better and a total SAT score of 1100 or better
   C) If the SAT was taken March 2016 or later, Math SAT score of 620 or better and a total SAT score of 1170 or better

3) Students below the top 50% of their class must meet one of the following requirements:
   A) Math ACT score of 26 or better and a composite ACT score of 26 or better
   B) If the SAT was taken February 2016 or before, Math SAT score of 630 or better and a total SAT score of 1180 or better
   C) If the SAT was taken March 2016 or later, Math SAT score of 650 or better and a total SAT score of 1250 or better

4) Students with no graduating class ranking (homeschooled, GED, international students, etc.) must meet one of the following requirements:
   A) Math ACT score of 24 or better and a composite ACT score of 24 or better
   B) If the SAT was taken February 2016 or before, Math SAT score of 600 or better and a total SAT score of 1100 or better
   C) If the SAT was taken March 2016 or later, Math SAT score of 620 or better and a total SAT score of 1170 or better

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College of Engineering: Admission requirements (continued)

Engineering Technology programs

- Freshman applicants to Engineering Technology programs must have a math SAT score of 540 or better, or a math ACT score of 22 or better.

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 2513) or higher. MATH 1650 (Pre-Calculus; TCCNS: MATH 2312 or 2412) completed with a grade of C or better is a prerequisite to enroll in MATH 1710/Calculus I.

For applicants who do not meet the above requirements, you may participate in the Pre-Engineering program. You may be eligible for admissions into engineering when you meet the major changer criteria below.

To be admitted from the Pre-Engineering or another UNT major, you must meet all of the following criteria:

- Participate in an engineering Major Changers session
- Minimum 2.0 GPA based on all UNT coursework
- Minimum 2.5 GPA & minimum "C" grades in the courses below per your destination engineering major:
    - Communications Core
    - TECM 2700
    - MATH 1710
    - CSCE 1030
    - CSCE 1040

Special Notes

Hours Required and General/College Requirements:
A minimum of 120 semester hours, of which 42 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.

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

- A 2.0 GPA is required for advanced Computer Science & Engineering courses in the major. Grades of "D" are not accepted.

UNT Core Curriculum/Transfer of Core Curriculum: UNT complies with the mandates of the 1997 Texas Legislature regarding 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*.

For additional program and contact information see the College of Engineering Student Advising website:
http://engineering.unt.edu/advising