College of Engineering
B.S. Computer Science
2015-2016 Texas Common Course Numbering System Transfer Guide

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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 & 14440 or BIOL 1710 & 1760	CHEM 1412 or 1312/1112 or BIOL 1406 or 1106/1306#	UNT Core: Discovery	See list of approved courses

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	None
	UNT Core: Social & Behavioral Sciences	See list of approved courses	CSCE 3600	

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 Elective (advanced)	
	CSCE 4444		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 (Capstone)	None
	CSCE Core (advanced)		CSCE Breadth (advanced)	
	CSCE Breadth (advanced)		CSCE 4901 or 4999	
	TECM 4000 Level			
	UNT Core: Government/ Political Science	See list of approved courses	UNT Core: Government/Political Science	See list of approved courses

Last Revised: May 28, 2015

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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 EENG 2710 (available at UNT only) during the first semester of their sophomore year. Please refer to the four-year plan on page three 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, with the exception of American History and Government/Political Science, and the College & Major 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: Mathematics

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

UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the Computer Science program requirements (see "Other Course 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: ENGL 2332 or 2333; HIST 2321 or 2322; PHIL 1301, 1304, 2303, 2306, or 2316

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; SPCH 1318; TECA 1354

UNT Core: Discovery

One course chosen from: ARTS 1301; BIOL/HECO 1322; COMM 1307; MATH 2305 or 2405; SPCH 1311 or 1315; TECA 1303

UNT Core: Capstone

The Capstone Core requirement is unique to UNT and will be fulfilled by an advanced course at UNT.

Note: The Core Capstone courses are under review by the Texas Higher Education Coordinating Board, and are subject to change.

Computer Science: Major Requirements

TCCNS options:

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

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

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 both Life & Physical Sciences core and major requirements.

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

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College of Engineering: Admission Requirements

In addition to the university admission requirements, applicants must meet the following minimum requirements for admission to the College of Engineering:

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

- Transfer applicants must 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.

If an applicant does not meet any of the above requirements, admission will be granted into an engineering preparatory program (Pre-Engineering) until the applicant completes MATH 1650 (Pre-Calculus; TCCNS: MATH 2312 or 2412) with a grade of C or better.

College of Engineering foundation courses should be met prior to acceptance as a full major and/or enrollment in upper-division College of Engineering courses. Students must achieve a minimum GPA of 2.5 or higher in the following courses and laboratories with only grades of "A, B, and C" accepted:

Mathematics: This course will also fulfill Computer Science program requirements.
TCCNS Options: MATH 2313 or 2413 or 2513.

Science: Two courses including laboratories chosen from the list of approved courses; these courses will also fulfill Computer Science program requirements.
TCCNS Options: CHEM 1411 or 1311/1111; PHYS 2425 or 2325/2125.

Technical Written Communication: This course will also partially fulfill the UNT Core Communication requirement.
TCCNS Option: ENGL 2311.

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 2.75 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 2015-2016*.

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