College of Engineering
B.A. Information Technology
(Certification & Non-Teacher Certification Options)
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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.A. Information Technology 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 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 U.S. History and 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: English Composition & Rhetoric

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 Information Technology program requirements (see "Other Course Requirements).

UNT Core: Natural Science

This requirement will be met by fulfilling the College of Engineering laboratory science requirement (see "Other Course Requirements).

UNT Core: U.S. History

Two courses chosen from: HIST 1301, 1302, 2301

UNT Core: Political Science

As of Fall 2013, only the following courses are offered at the two-year level:

- GOVT 2305 and 2306

Other acceptable combinations are:

- GOVT 2301 and 2302
- GOVT 2301 and 2305
- GOVT 2301 and 2306
- GOVT 2302 and 2306

UNT Core: Visual & Performing Arts

One course chosen from: ARTS 1301, 1303, or 1304; DRAM 1310; MUSI 1306 or 1307; SPCH 2341

UNT Core: Humanities

One course chosen from: ENGL 2322, 2323, 2327, 2328, 2332, or 2333; PHIL 1304 or 2316

UNT Core: Social & Behavioral Sciences

One course chosen from: ANTH 2346 or 2351; COMM 1307; CRIJ 1301; ECON 2301 or 2302; HUMA 2323; PSYC 2301; SOCI 1301; SPCH 1318; TECA 1354

UNT Core: Discovery

One course chosen from: ARTS 1301; BIOL/HECO 1322; GEOG 1303; HIST 2321 or 2322; MATH 2305 or 2405; PHIL 1301, 2303, or 2306; 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.

Information Technology: Major Requirements

TCCNS options:

- COSC 1336 or 1436
- COSC 1337 or 1437

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

Information Technology: Other Course

TCCNS options:

Required course in Technical Writing:

- ENGL 2311

Required course in mathematics:

- MATH 1342 or 1442 (fulfills both Mathematics core and major requirements).

- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and major requirements).

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Information Technology: Other Course Requirements (continued):

Required courses in laboratory science:

- CHEM 1411 or 1311/1111

- PHYS 2425 or 2325/2125

CHEM and PHYS courses listed above fulfill both Natural Science core and major requirements.

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

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 Information Technology 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 Information Technology 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 English Composition requirement.
TCCNS Option: ENGL 2311.

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.

Teacher Certification Option (continued)

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 2.5 GPA is required on all courses counting toward the Teach North Texas Minor, see current UNT Undergraduate Catalog for all minor requirements.

PHIL 2600, offered only at UNT, will fulfill both the Humanities core and 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.

Special Notes

Hours Required and General/College Requirements:
A minimum of 121 semester hours, of which 42 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 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 2013-2014*.

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

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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.

YEAR	FALL SEMESTER		SPRING SEMESTER	
FRESHMAN	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	MATH 1710	MATH 2313 or 2413 or 2513	PHYS 1710/1730	PHYS 2425 or 2325/2125
	CHEM 1410/1430	CHEM 1411 or 1311/1111	CSCE 1040	COSC 1337 or 1437
	CSCE 1030	COSC 1336 or 1436	TECM 2700	ENGL 2311
	ENGL 1310	ENGL 1301	UNT Core: Humanities	See list of approved courses
	UNT Core: Discovery	See list of approved courses	UNT Core: Political Science	See list of approved courses

YEAR	FALL SEMESTER		SPRING SEMESTER	
SOPHOMORE	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	MATH 1680 or 1681	MATH 1342 or 1442	CSCE 3600	None
	CSCE 2100	None	CSCE 2110	
	UNT Core: Social &	See list of approved courses	CSCE 3055	
	UNT Core: U.S. History	See list of approved courses	UNT Core: U.S. History	See list of approved courses
	UNT Core: Political Science	See list of approved courses	UNT Core: Visual & Performing Arts	See list of approved courses

YEAR	FALL SEMESTER		SPRING SEMESTER	
JUNIOR	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	CSCE 3220	None	CSCE 3530	None
	CSCE 4350		Supporting Area	
	CSCE 4444		Supporting Area	
	Supporting Area		CSCE Concentration Area (advanced)	
	Supporting Area		Supporting Area	

YEAR	FALL SEMESTER		SPRING SEMESTER	
SENIOR	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	CSCE 3420	None	CSCE 4010 (Capstone)	None
	CSCE 4905		CSCE 4925	
	CSCE Concentration Area (advanced)		CSCE Concentration Area (advanced)	
	Supporting Area		CSCE 4550	
	Supporting Area			

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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	PHYS 1710/1730	PHYS 2425 or 2325/2125
	CHEM 1410/1430	CHEM 1411 or 1311/1111	CSCE 1040	COSC 1337 or 1437
	CSCE 1030	COSC 1336 or 1436	TECM 2700	ENGL 2311
	ENGL 1310	ENGL 1301	UNT Core: Political Science	See list of approved courses
	UNT Core: Discovery	See list of approved courses	PHIL 2600	None
	TNTX 1100* (1 hr)	None	TNTX 1200* (2 hrs)	
	*** 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
S O P H O M O R E	MATH 1680 or 1681	MATH 1342 or 1442	CSCE 3600	None
	CSCE 2100	None	CSCE 2110	
	UNT Core: Social & Behavioral Science	See list of approved courses	CSCE 3055	
	UNT Core: U.S. History	See list of approved courses	UNT Core: U.S. History	See list of approved courses
	UNT Core: Political Science	See list of approved courses	UNT Core: Visual & Performing Arts	See list of approved courses

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
J U N I O R	CSCE 3220	None	CSCE 3530	None
	CSCE 4350		Supporting Area	
	CSCE 4444		Supporting Area	
	Supporting Area		CSCE Concentration Area (advanced)	
	EDSE 3500		EDSE 4000*	
	Supporting Area		Supporting Area	

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Year	Fall Semester		Spring Semester	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
S E N I O R	CSCE 3420	None	Capstone: CSCE 4010	None
	CSCE 4905		CSCE 4925	
	CSCE Concentration Area (advanced)		CSCE 4550	
	Supporting Area (advanced)		EDSE 4608* (Student Teaching I)	
	EDSE 4500*			
	CSCE Concentration Area (advanced)		EDSE 4618* (Student Teaching II)	
	Supporting Area (advanced)		EDSE 4628* (Student Teaching Seminar) (1 hr)	