

# College of Engineering

## B.A. Information Technology



### 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.

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	PHYS 1710/1730	PHYS 2425 or 2325/2125
	CHEM 1410/1430 or BIOL 1710/1760	CHEM 1411 or 1311/1111 or BIOL 1406 or 1106/1306#	CSCE 1040	COSC 1337 or 1437
	CSCE 1030	COSC 1336 or 1436	TECM 2700	ENGL 2311
	ENGL 1310	ENGL 1301	UNT Core: Language, Philosophy and Culture	<a href="#">See list of approved courses</a>
	UNT Core: Component Area Option	<a href="#">See list of approved courses</a>	PSCI 2305	GOVT 2305

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SOPHOMORE	MATH 1680 or 1780	MATH 1342,1442, 2342 or 2442	CSCE 3600	None
	CSCE 2100#	MATH 2305	CSCE 2110	COSC 2336 or 2436
	UNT Core: Social & Behavioral Science	See list of approved courses	Supporting Area	None
	UNT Core: American History	See list of approved courses	UNT Core: American History	See list of approved courses
	PSCI 2306	GOVT 2306	UNT Core: Creative Arts	See list of approved courses

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	CSCE 3055	None	CSCE 3605	None
	CSCE 3220		CSCE 3615	
	CSCE 3420		CSCE 4010	
	CSCE 3530		CSCE 4350	
	Supporting Area		Supporting Area	

YEAR	FALL SEMESTER		SPRING SEMESTER		
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option	
SENIOR	CSCE 3535	None	CSCE 4925	None	
	CSCE 4355				
	CSCE 4550				Supporting Area
	CSCE 4905				Supporting Area
	Supporting Area				Supporting Area

# College of Engineering

## B.A. Information Technology

### Teacher Certification Option



## 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	PHYS 1710/1730	PHYS 2425 or 2325/2125
	CHEM 1410/1430 or BIOL 1710/1760	CHEM 1411 or 1311/1111 or BIOL 1406 or 1106/1306#	CSCE 1040	COSC 1337 or 1437
	CSCE 1030	COSC 1336 or 1436	TECM 2700	ENGL 2311
	ENGL 1310	ENGL 1301	PSCI 2305	GOVT 2305
	UNT Core: Component Area Option	<a href="#">See list of approved courses</a>	PHIL 2600	None
	TNTX 1100* (1 hr)	None	TNTX 1200* (2 hrs)	
<b>* Students must be admitted to Teach North Texas Program prior to enrolling in certain Education courses.</b>				

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SOPHOMORE	MATH 1680 or 1780	MATH 1342,1442, 2342 or 2442	CSCE 3600	None
	CSCE 2100#	MATH 2305	CSCE 2110	COSC 2336 or 2436
	UNT Core: Social & Behavioral Science	<a href="#">See list of approved courses</a>		UNT Core: American History
	UNT Core: American History	<a href="#">See list of approved courses</a>	UNT Core: Creative Arts	<a href="#">See list of approved courses</a>
	PSCI 2306	GOVT 2306		

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	CSCE 3055	None	Elective (2 hours)	Consult UNT advisor
	CSCE 3220		CSCE 3605	None
	CSCE 3420		CSCE 4010	
	CSCE 3530		CSCE 4350	
	EDCI 3500		EDCI 4000*	

**College of Engineering**  
**B.A. Information Technology**  
**Teacher Certification Option**



**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.

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
S E N I O R	CSCE 3535	None	CSCE 4925	None
	CSCE 4355		CSCE 4444	
	CSCE 4550		EDCI 4608* (Student Teaching I)	
	CSCE 4905		EDCI 4618* (Student Teaching II)	
	EDCI 4500*		EDCI 4628* (Student Teaching Seminar) (1 hr)	

# College of Engineering

## B.A. Information Technology (Certification & Non-Certification Options)

### 2019-2020 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" 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. 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: Mathematics

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

### UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the College of Engineering laboratory science requirement (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; 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

### 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: Component Area Option

One course for this requirement will be met by fulfilling the B.A. Information Technology program requirements (see "Other Course Requirements" below). In addition, choose one course from the list below.

**Option A:** ANTH 2346, 2351, or 2401; ARTS 1301, 1303 or 1304; ASTR 1403 or 1404; BIOL 1408 or 1413, or 2406; COMM 1307; CRIJ 1301; DRAM 1310; ECON 2301 or 2302; ENGL 1301, 1302, 2311, 2332, or 2333; HECO 1322; GEOG 1303; GEOL 1401 or 1403; HIST 1301, 1302, 2321, or 2322; MATH 1316, 1324, 1325 or 1425, 1332, 1342 or 1442 or 2342 or 2442, 1350, 2305 or 2405, 2312 or 2412, 2313 or 2413 or 2513, 2314 or 2414; MUSI 1306 or 1307; PHIL 1301, 1304, 2303, 2306, or 2316; PHYS 1403, 1404, 1410, or 1415; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1315, 1318 or 2341; TECA 1354

**Option B:** SPCH 1311; TECA 1303

### Information Technology: Major Requirements

TCCNS options:

- COSC 1336 or 1436
- COSC 1337 or 1437
- MATH 2305

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

# College of Engineering

## **B.A. Information Technology** (Certification & Non-Teacher Certification Options)

### 2019-2020 Texas Common Course Numbering System Transfer Guide



#### Information Technology: Other Course Requirements

TCCNS options:

#### Required course in Technical Writing:

- ENGL 2311

#### Required course in mathematics:

- MATH 1342 1442, 2342 or 2442 (fulfills both Mathematics core and major requirements).
- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and major requirements).

#### Required courses in laboratory science:

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

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

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

#### Information Technology: Other Requirements

The information Technology foundation courses are:

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

Successful completion of foundation courses is based on achieving a C or higher in each course and a cumulative GPA of 2.5. 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

# College of Engineering

## *B.A. Information Technology*

### (Certification & Non-Teacher Certification Options)

#### 2019-2020 Texas Common Course Numbering System Transfer Guide



#### 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

#### 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 Teach North Texas Minor, see current UNT Undergraduate Catalog for all minor requirements.

PHIL 2600, offered only at UNT, will fulfill both the Language, Philosophy and Culture 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 2.0 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>