



# College of Engineering

## *B.S.E.T. Mechanical Engineering Technology*

### 2022-2023 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 SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	MATH 1710	MATH 2313 or 2413	MATH 1720	MATH 2314 or 2414
	CHEM 1410/1430	CHEM 1411 or 1311/1111	PHYS 1710/1730	PHYS 2425 or 2325/2125
	ENGR 1304	ENGR 1304 or 1204	TECM 2700	ENGL 2311
	ENGL 1310	ENGL 1301	ENGR 1030#	ENGR 1201
	PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306

SECOND YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	CSCE 1030	COSC 1336 or 1436	PHYS 2220/2240	PHYS 2426 or 2326/2126
	UNT Core: Creative Arts	<a href="#">See list of approved courses</a>	ENGR 2302	ENGR 2302 or 2402
	ENGR 2301	ENGR 2301 or 2401	ENGR 2332	ENGR 2332
	EENG 2610/2611	ENGR 2405 or 2305/2105	UNT Core: American History	<a href="#">See list of approved courses</a>
	UNT Core: American History	<a href="#">See list of approved courses</a>	UNT Core: Language, Philosophy and Culture	<a href="#">See list of approved courses</a>

THIRD YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	ENGR 3450	N/A	MEET 3980	N/A
	MEET 3940	N/A	MEET 3650	N/A
	MFET 3110	N/A	MFET 4190	N/A
	MEET 3990	N/A	MFET 4210	N/A
			Technical Elective	Consult UNT advisor

FOURTH YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	MEET 4050	N/A	MEET 4360	N/A
	MEET 4350	N/A	MEET 4790	N/A
	MEET 4780	N/A	Technical Elective (Advanced)	N/A
	MFET 4200	N/A	Technical Elective (Advanced)	N/A
	MEET 3550	Consult UNT advisor	UNT Core: Social & Behavioral Science	<a href="#">See list of approved courses</a>



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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".
- To complete the B.S.E.T. Mechanical Engineering Technology degree within four years, students should plan to take Calculus I (MATH 2313 or 2413) 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 Mechanical Engineering Technology requirements (see "Other Course Requirements").

### UNT Core: Life & Physical Sciences

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

### 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 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

This requirement will be met by fulfilling the B.S.E.T. in Mechanical Engineering Technology program requirements (see "Other Course Requirements").

*ENGR 1030 offered at UNT is a required course for the major and will satisfy a portion of the CAO core.*

### Mechanical Engineering Technology: Major Requirements

TCCNS options:

- COSC 1336 or 1436
- ENGR 1201
- ENGR 1304 or 1204
- ENGR 2302 or 2402
- ENGR 2301 or 2401
- ENGR 2405 or 2305/2105
- ENGR 2332

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

### Mechanical Engineering Technology: Other Course Requirements

TCCNS options:

**Required course in Technical Writing:**

- ENGL 2311

**Required courses in Mathematics:**

- MATH 2313 or 2413 (fulfills both Mathematics core and program requirements)
- MATH 2314 or 2414

**Required courses in Laboratory Science:**

- CHEM 1411 or 1311/1111
- PHYS 2425 or 2325/2125
- PHYS 2426 or 2326/2126

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

**Mechanical Engineering Technology Foundation:**

- ENGR 1304 or 1204
- ENGR 2301 or 2401
- ENGL 1301
- MATH 2313 or 2413
- PHYS 2425 or 2325/2125
- 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. Mandatory advisement is required each semester until the foundation courses have been successfully completed.

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



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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)
<b>Top 25%</b>	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+
<b>Top 50%</b>	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+
<b>Below 50%</b>	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+
<b>No Ranking</b>	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 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 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:

\*Can substitute with CSCE 1030 and CSCE 1040 with minimums grades of 'C' in both based on advisor approval.

Pre-major	Grade of 'C' or higher
Pre-Computer Science	CSCE 1030
Pre-Information Technology	CSCE 1030
Pre-Computer Engineering	CSCE 1030
Pre-Cybersecurity	CSCE 1035*
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

#### Special Notes

**Hours Required and General/College Requirements:** A minimum of 122 semester hours, of which 42 must be advanced, and fulfillment of degree requirements for the Bachelor of Science in Engineering Technology 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 courses requirements.

**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](#) under the corresponding catalog year.

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