College of Engineering

B.S. Mechanical & Energy Engineering

2023-2024 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		First Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MATH 1710	MATH 2313 or 2413	MATH 1720	MATH 2314 or 2414
CHEM 1410/1430 or 1415/1435	CHEM 1411 or 1311/1111	PHYS 1710/1730	PHYS 2425 or 2325/2125
UNT Core: American History	See list of approved courses	UNT Core: American History	See list of approved courses
ENGL 1310	ENGL 1301	TECM 2700	ENGL 2311
MEEN 1000#	ENGR 1201	UNT Core: Creative Arts	See list of approved courses

Second Year Fall		Second Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MATH 2700	MATH 2318 or 2418	MATH 2730	MATH 2315 or 2415
PHYS 2220/2240	PHYS 2426 or 2326/2126	MATH 3410#	MATH 2320 or 2420
ENGR 1304	ENGR 1204 or 1304	MEEN 2110	N/A
MEEN 2240	N/A	MEEN 2210	N/A
ENGR 2301	ENGR 2301 or 2401	ENGR 2302	ENGR 2302 or 2402
		ENGR 2332	ENGR 2332

Third Year Fall		Third Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MEEN 3250	N/A	MEEN 3230	N/A
MEEN 3110	N/A	MEEN 3242	N/A
MEEN 3120	N/A	MEEN 3130	N/A
MEEN 3240	N/A	MEEN 3210	N/A
ENGR 2405# or EENG 2610	ENGR 2305 or 2405	ENGR 3450	N/A
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306

Fourth Year Fall		Fourth Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MEEN 4150	N/A	MEEN 4250	N/A
Energy Engineering Elective	N/A	Energy Engineering Elective	N/A
MEEN 3100	N/A	Technical Elective	N/A
UNT Core: Language, Philosophy and Culture	See list of approved courses	UNT Core: Social & Behavioral Science	See list of approved courses
Technical Elective	N/A		

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B.S. Mechanical & Energy Engineering

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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”.
- 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 B.S. Mechanical & Energy Engineering majors.

UNT Core: Mathematics

This requirement will be met by fulfilling the B.S. Mechanical & Energy Engineering program requirements (see other column).

UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the B.S. Mechanical & Energy Engineering program requirements (see next column).

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 or 2330; **SOCI** 1301; **SOCW** 2361; **SPCH** 1318; **TECA** 1354

UNT Core: Core Option Courses

This requirement will be met by fulfilling the B.S. Mechanical & Energy Engineering program requirements (see next column).

Mechanical & Energy Engineering: Fundamentals Requirements

TCCNS options:

- ENGR 1204 or 1304
- ENGR 2305 or 2405 (approved substitution)

Courses listed above are TCCNS options and do not include all courses required for the UNT B.S. Mechanical & Energy Engineering major.

Mechanical & Energy Engineering: Major Requirements

TCCNS options:

- ENGR 1201 (approved substitution)
- ENGR 2301 or 2401
- ENGR 2302 or 2402
- ENGR 2322

Courses listed above are TCCNS options and do not include all courses required for the UNT B.S. Mechanical & Energy Engineering major.

Mechanical & Energy Engineering: Other Course Requirements

TCCNS options:

Required courses in Technical Writing:

- ENGL 2311 (also fulfills a portion of Communication core requirements)

Required courses in Mathematics:

- MATH 2313 or 2413 (also fulfills Mathematic core requirements)
- MATH 2314 or 2414 (also fulfills a portion of Core Option core requirements)
- MATH 2315 or 2415
- MATH 2318 or 2418
- MATH 2320 or 2340 (approved substitution)

Required courses in Laboratory Science:

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

Laboratory Science courses listed above fulfill Life and Physical Sciences core and a portion of Core Option core requirements.

A grade of ‘C’ or better is required for all major courses and other courses requirements.

Courses listed above are TCCNS options and do not include all courses required for the UNT B.S. Mechanical & Energy Engineering major.

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B.S. Mechanical & Energy Engineering
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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)
Top 25%	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+
Top 50%	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+
Below 50%	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+
No Ranking	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 the Construction Engineering Technology or Mechanical Engineering Technology programs must have a math SAT score of 570 or better, or a math ACT score of 22 or better.

Construction Management: Freshman applicants to the Construction Management program are automatically admitted when their admissions to the university is met.

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:

Pre-major	Grade of 'C' or higher
Pre-Computer Science	CSCE 1030
Pre-Information Technology	CSCE 1030
Pre-Computer Engineering	CSCE 1030
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 127 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.

UNT Core Curriculum/Transfer of Core Curriculum: UNT complies with the mandate of the Texas Legislature regarding Core 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