College of Engineering

B.S. Mechanical & Energy Engineering

2025-2026

This four-year plan provides a model for on-time completion of this UNT program. Texas Common Course Numbering System (TCCNS) show how course transfers apply to UNT degree requirements. 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.

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 1311/1111 or 1411	PHYS 1710/1730	PHYS 2325/2125 or 2425
ENGL 1310	ENGL 1301	ENGR 1304	ENGR 1204 or 1304
MEEN 1000	ENGR 1201	TECM 2700	ENGL 2311
UNT Core: American History	See list of approved courses	UNT Core: American History	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 3410	MATH 2320 or 2420
MATH 2730	MATH 2315 or 2415	ENGR 2302	ENGR 2302 or 2402
ENGR 2301	ENGR 2301 or 2401	ENGR 2332	ENGR 2332
MEEN 2240	N/A	MEEN 2110	N/A
PHYS 2220/2240	PHYS 2326/2126 or 2426	MEEN 2210	N/A

Third Year Fall		Third Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
ENGR 2405 or EENG 2610	ENGR 2305 or 2405	ENGR 3450	N/A
MEEN 3110	N/A	MEEN 3130	N/A
MEEN 3120	N/A	MEEN 3210	N/A
MEEN 3240	N/A	MEEN 3230	N/A
MEEN 3250	N/A	MEEN 3242	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 3100	N/A	MEEN 4250	N/A
MEEN 4150	N/A	Advanced Energy Engineering Elective	N/A
Advanced Energy Engineering Elective	N/A	Advanced Technical Elective	N/A
UNT Core: Language, Philosophy & Culture	See list of approved courses	Advanced Technical Elective	N/A
UNT Core: Social & Behavioral Sciences	See list of approved courses	UNT Core: Creative Arts	See list of approved courses

College of Engineering

B.S. Mechanical & Energy Engineering

2025-2026

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 at UNT 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

One course for this requirement will be met by fulfilling the B.S. Mechanical & Energy Engineering major requirements. In addition, complete **ENGL** 1301 or **TECM** 1700 (at UNT only).

A grade of 'C' or higher is required on courses applied toward this requirement.

UNT Core: Mathematics

This requirement will be met by fulfilling the B.S. Mechanical & Energy Engineering major requirements.

UNT Core: Life and Physical Sciences

This requirement will be met by fulfilling the B.S. Mechanical & Energy Engineering major 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: **ARTS** 1303; **ENGL** 2321, 2326, 2331, 2341, or 2351; **HIST** 2321 or 2322; **PHIL** 1301, 1304, 2303, or 2306

UNT Core: Social and Behavioral Sciences

One course chosen from: **ANTH** 2346, 2351; **BUSI** 1307; **COMM** 1307; **CRIJ** 1301; **ECON** 2301 or 2302; **GEOG** 1303; **PSYC** 2301; **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 major requirements.

Mechanical & Energy Engineering: Major Requirements

TCCNS options:

- **ENGR** 1201 (approved substitution and also fulfills a portion of the Core Option Course core requirement)
- **ENGR** 1204 or 1304
- **ENGR** 2301 or 2401
- **ENGR** 2302 or 2402
- **ENGR** 2305 or 2405 (approved substitution)
- **ENGR** 2332

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

Mechanical & Energy Engineering: Additional Requirements

TCCNS options:

- **ENGL** 2311 (also fulfills a portion of the Communication core requirement)
- **MATH** 2313 or 2413 (also fulfills the Mathematics core requirement)
- **MATH** 2314 or 2414 (also fulfills a portion of the Core Option Course core requirement)
- **MATH** 2315 or 2415
- **MATH** 2318 or 2418
- **MATH** 2320 or 2340 (approved substitution)
- **CHEM** 1111 & 1311, or 1411
- **PHYS** 2125 & 2325, or 2425 (also fulfills a portion of the Life & Physical Science core requirement)
- **PHYS** 2126 & 2326, or 2426 (also fulfills a portion of the Life & Physical Science core requirement)

A grade of 'C' or higher is required for all major courses and other course requirements.

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

Mechanical & Energy Engineering: Grad Track Options

The B.S. Mechanical and Energy Engineering major has grad track options leading to a M.S. in Mechanical and Energy Engineering, Ph.D. in Mechanical and Energy Engineering, M.S. in Biomedical Engineering, M.S. in Electrical Engineering, M.S. in Engineering Management, or M.S. in Materials Science and Engineering. For more information, review the UNT undergraduate catalog and consult a UNT advisor.

College of Engineering

B.S. Mechanical & Energy Engineering

2025-2026

Mechanical Engineering: Department Policies

Students in the College of Engineering will conduct themselves in a professional manner in their interaction with their peers, faculty, staff, and the community in general. A student may be dismissed from the college for inappropriate conduct (please refer to the Code of Student Conduct).

Each semester, students are required to take engineering foundation courses and/or prerequisites to the engineering foundation courses until all foundation courses are successfully completed.

Successful completion of the foundation courses is required for enrollment in all 3000 and 4000 level courses.

A minimum grade of 'C' is required in all courses required in a student's major for prerequisite completion. Courses include, but are not limited to, engineering, computing, mathematics, laboratory sciences, supporting area, technical elective, technical option, energy elective and specialization courses.

A student making grades lower than 'C' two times in the same course in any College of Engineering foundation course or in any course required by the major is subject to dismissal from the College of Engineering, pending a review by the Associate Dean for Undergraduate Studies in the College of Engineering.

A student must maintain good academic standing within the university. Please see "Academic status" and "Regulations governing students under academic suspension" in the Academics section of the UNT catalog.

College of Engineering: Admission Requirements

Admission to the College of Engineering is contingent on clear admission to the university. The College of Engineering has 5 departments.

Applicants will be admitted to the College of Engineering in an engineering program if they meet the requirements below:

	ACT	SAT (Feb '16 or prior)	SAT (March '16 or after)
Top 25%	Math score of 23+ and a cumulative 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 cumulative 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 cumulative 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 cumulative score of 24+	Math score of 600+ and a total score of 1100+	Math score of 620+ and a total score of 1170+

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 (second bachelor's degree) applicants must be eligible to enroll in **MATH** 1710 (Calculus I) or in a higher-level math class and have a grade point average of 2.0 or greater in all prior math, science and engineering coursework.

Students not meeting the admission requirements for the major or applying to change their major into a degree 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 with 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

College of Engineering

B.S. Mechanical & Energy Engineering

2025-2026

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, visit the College of Engineering Student Advising website at https://engineering.unt.edu/advising.