College of Engineering

B.S. Mechanical & Energy Engineering

2018-2019 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	
Freshman	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720	MATH 2314 or 2414
	CHEM 1410/1430	CHEM 1411 or 1311/1111	UNT Core: Creative Arts	See list of approved courses
	UNT Core: American History	See list of approved courses	PHYS 1710/1730	PHYS 2425 or 2325/2125
	ENGL 1310	ENGL 1301	TECM 2700	ENGL 2311
	MEEN 1000	None	UNT Core: American History	See list of approved courses

Year	Fall Semester		Spring Semester	
Sophomore	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	None
	ENGR 1304	ENGR 1204 or 1304	MEEN 2210	
	MEEN 2110	None	MEEN 2240	
	MEEN 2301		MEEN 2302	
			MEEN 2332	

Year	Fall Semester		Spring Semester	
Junior	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	MEEN 3250	None	MEEN 3230	None
	MEEN 3110		MEEN 3242	
	MEEN 3120		MEEN 3130	
	MEEN 3240		MEEN 3210	
	ENGR 2405 or EENG 2610	ENGR 2307 or ENGR 2305#	MTSE 3000/3003	
	PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306

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YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	MEEN 4150	None	MEEN 4250	None
	Energy Engineering Elective		Energy Engineering Elective	
	MEEN 3100		Technical Elective (advanced)	
	UNT Core: Language, Philosophy and Culture	See list of approved courses	Technical Elective (advanced)	
	UNT Core: Social & Behavioral Science	See list of approved courses		

* Note: prerequisites for MATH 3410 are MATH 2314 or MATH 2414 (TCCNS Values). MATH 2318 or MATH 2418 recommended (TCCNS values).

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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.S. Mechanical & Energy Engineering degree within four years, students should plan to take Calculus I (MATH 2313 or 2413 or 2513) and MEEN 1000 (available at UNT only) 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 & Energy Engineering program requirements (see "Other Course Requirements").

UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the Mechanical & Energy Engineering program requirements (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: 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 Category II

This requirement will be met by fulfilling the B.S. in Computer Science program requirements (see "Other Course Requirements" below).

MEEN 1000 offered at UNT is a required course for the major and will satisfy a portion of the CAO requirement.

Mechanical & Energy Engineering: Engineering Fundamentals Requirements

TCCNS options:

- ENGR 1204 or 1304
- ENGR 2307 or ENGR 2305 (substitutes for UNT's ENGR 2405/EENG 2610)

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

Mechanical & Energy Engineering: Major Requirements

No TCCNS options available.

Mechanical & Energy Engineering: Other Course Requirements

TCCNS options:

Required courses in technical writing:

- ENGL 2311

Required courses in mathematics:

- MATH 2313 or 2413 or 2513 (fulfills both Mathematics and major requirements).
- MATH 2314 or 2414
- MATH 2315 or 2415

Math Elective

- MATH 2318 or 2418

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Mechanical & Energy Engineering: Other Course Requirements (continued)

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 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 Mechanical & Energy Engineering major.

Mechanical & Energy Engineering: Other Requirements

Mechanical & Energy Engineering foundation courses include:

- ENGL 1301
- ENGL 2311
- MATH 2313 or 2413 or 2513
- PHYS 2425 or 2325/2125
- MEEN 1000 at UNT
- MEEN 2210 at UNT
- MEEN 2301 at UNT
- MEEN 2302 at UNT

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 mandatory 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

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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
    - MATH 1720
    - PHYS 1710 and PHYS 1730
    - MEEN 1000

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.

- A grade of 'C' or better is required for all major courses and other courses requirements.
- A grade point average of at least 2.0 is required for all major requirement courses and approved electives. Enrollment in the upper-division MEEN courses requires successful completion of all required lower–division MEEN and ENGR prefix courses. 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