

# College of Engineering

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

### 2011-2012 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.S.E.T. Mechanical Engineering 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 three 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

##### UNT Core: English Composition & Rhetoric

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: Natural Science

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

##### UNT Core: U.S. History

Two courses chosen from: HIST 1301, 1302, 2301

##### UNT Core: Political Science

Two courses chosen from one of the following combinations:

- GOVT 2301 and 2302
- GOVT 2305 and 2306
- GOVT 2301 and 2305
- GOVT 2301 and 2306
- GOVT 2302 and 2306

##### UNT Core: Visual & Performing Arts

One course chosen from: ARTS 1301, 1303, or 1304; DRAM 1310; MUSI 1306 or 1307; SPCH 2341

##### UNT Core: Humanities

One course chosen from: ENGL 2322, 2323, 2327, 2328, 2332, or 2333; PHIL 1304 or 2316

##### UNT Core: Social & Behavioral Sciences

One course chosen from: ANTH 2346 or 2351; COMM 1307; CRIJ 1301; ECON 2301 or 2302; HUMA 2323; PSYC 2301; SOCI 1301; SPCH 1318; TECA 1354

##### UNT Core: Discovery

One course chosen from: ARTS 1301; BIOL/HECO 1322; GEOG 1302 or 1303; HIST 2321 or 2322; PHIL 1301, 2303, or 2306; SPCH 1311 or 1315; TECA 1303

*ENGR 1030 offered at UNT is a required course for the major and will satisfy the Discovery requirement.*

##### UNT Core: Capstone

The Capstone Core requirement is unique to UNT and will be fulfilled by an advanced course at UNT.

##### Mechanical Engineering Technology: Major Requirements

TCCNS options:

- COSC 1315 or 1415
- ENGR 1304 or 1204
- ENGR 2107
- ENGR 2302 or 2402
- ENGR 2303 or 2403 or ENGR 2301 (substitutes for UNT'S ENGR 2301)
- ENGR 2307
- ENGR 2332 or 2432 (substitutes for UNT's 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 courses in mathematics:

- MATH 2313 or 2413 or 2513 (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 both Natural Science core and major requirements.

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#### College of Engineering: Admission Requirements

In addition to the university admission requirements, applicants must meet the following minimum requirements for admission to the College of Engineering:

- Freshman applicants must have a math SAT score of 540 or better, or a math ACT score of 22 or better.
- Transfer applicants must 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.

If an applicant does not meet any of the above requirements, admission will be granted into an engineering preparatory program (Pre-Engineering) until the applicant completes MATH 1650 (Pre-Calculus; TCCNS: MATH 2312 or 2412) with a grade of C or better.

College of Engineering foundation courses should be met prior to acceptance as a full major and/or enrollment in upper-division College of Engineering courses. Students must achieve a minimum GPA of 2.5 or higher in the following courses and laboratories with only grades of "A, B, and C" accepted:

**Mathematics:** This course will also fulfill Mechanical Engineering Technology program requirements.  
TCCNS Options: MATH 2313 or 2413 or 2513.

**Science:** Two courses including laboratories chosen from the list of approved courses; these courses will also fulfill Mechanical Engineering Technology program requirements.  
TCCNS Options: CHEM 1411 or 1311/1111; PHYS 2425 or 2325/2125.

**Technical Written Communication:** This course will also partially fulfill the UNT Core English Composition requirement.  
TCCNS Option: ENGL 2311.

#### Special Notes

##### **Hours Required and General/College Requirements:**

A minimum of 124 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 2.5 GPA is required for Mechanical Engineering Technology 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 2011-2012](#).

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

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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
	ENGL 1310	ENGL 1301	TECM 2700	ENGL 2311
	CHEM 1410/1430	CHEM 1411 or 1311/1111	Discovery: ENGR 1030	None
	ENGR 1304	ENGR 1304 or 1204	MATH 1720	MATH 2314 or 2414
	MATH 1710	MATH 2313 or 2413 or 2513	PHYS 1710/1730	PHYS 2425 or 2325/2125
UNT Core: Political Science	See list of approved courses	UNT Core: Political Science	See list of approved courses	

YEAR	FALL SEMESTER		SPRING SEMESTER	
SOPHOMORE	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	CSCE 1020	COSC 1315 or 1415	ENGR 2302	ENGR 2302 or 2402
	ENGR 1060	None	ENGR 2332#	ENGR 2332 or 2432
	ENGR 2301	ENGR 2303 or 2403 or ENGR 2301#	PHYS 2220/2240	PHYS 2426 or 2326/2126
	ENGR 2405/2415	ENGR 2307/2107	MFET 2100	None
UNT Core: U.S. History	See list of approved courses			

YEAR	FALL SEMESTER		SPRING SEMESTER	
JUNIOR	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	ENGR 3450/3451	None	ELET 3970	None
	MEET 3940		MEET 3650	
	MFET 3110		MEET 3990	
	UNT Core: U.S. History	See list of approved courses	MFET 4190	
UNT Core: Humanities	See list of approved courses	MFET 4210		

YEAR	FALL SEMESTER		SPRING SEMESTER	
SENIOR	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	MEET 4050	None	UNT Core: Social & Behavioral Sciences	See list of approved courses
	MEET 4350		MEET 4360	None
	MEET 4780		Capstone: MEET 4790	
	MFET 4200		Technical Option	
	Technical Option (advanced)		Technical Option	Consult UNT advisor
UNT Core: Visual & Performing Arts	See list of approved courses		Technical Option	Consult UNT advisor