# B.S. Mechanical & Energy Engineering

## 2017-2018 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.

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td><strong>UNT Requirement</strong></td>
<td><strong>TCCNS Option</strong></td>
</tr>
<tr>
<td></td>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
</tr>
<tr>
<td></td>
<td>*CHEM 1410/1430</td>
<td>CHEM 1411 or 1311/1111</td>
</tr>
<tr>
<td></td>
<td>UNT Core: American History</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
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<tr>
<td></td>
<td>MEEN 1000</td>
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<table>
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<tr>
<th>Sophomore</th>
<th><strong>UNT Requirement</strong></th>
<th><strong>TCCNS Option</strong></th>
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<th><strong>TCCNS Option</strong></th>
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<tbody>
<tr>
<td></td>
<td>MATH 2700</td>
<td>MATH 2318 or 2418</td>
<td>MATH 2730</td>
<td>MATH 2315 or 2415</td>
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<tr>
<td></td>
<td>PHYS 2220/2240</td>
<td>PHYS 2426 or 2326/2126</td>
<td>** MATH 3410</td>
<td>None</td>
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<tr>
<td></td>
<td>ENGR 1304</td>
<td>ENGR 1204 or 1304</td>
<td>MEEN 2210</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MEEN 2110</td>
<td>None</td>
<td>MEEN 2240</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MEEN 2301</td>
<td>None</td>
<td>MEEN 2302</td>
<td>MEEN 2332</td>
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<tr>
<th>Junior</th>
<th><strong>UNT Requirement</strong></th>
<th><strong>TCCNS Option</strong></th>
<th><strong>UNT Requirement</strong></th>
<th><strong>TCCNS Option</strong></th>
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<tbody>
<tr>
<td></td>
<td>MEEN 3250</td>
<td>None</td>
<td>MEEN 3230</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MEEN 3110</td>
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<td>MEEN 3242</td>
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<td>MEEN 3120</td>
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<td>MEEN 3240</td>
<td></td>
<td>MEEN 3210</td>
<td></td>
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<tr>
<td></td>
<td>ENGR 2405 or EENG 2610</td>
<td>ENGR 2307 or ENGR 2305#</td>
<td>MTSE 3000/3003</td>
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<tr>
<td></td>
<td>UNT Core: Government/Political Science</td>
<td>See list of approved courses</td>
<td>UNT Core: Government/Political Science</td>
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http://essc.unt.edu/registrar/articulation/  
Last Revised: April 25, 2017
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<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>SENIOR</td>
<td>MEEN 4150</td>
<td>None</td>
<td>MEEN 4250</td>
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<tr>
<td></td>
<td>Energy Engineering Elective</td>
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<td>Energy Engineering Elective</td>
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<td>MEEN 3100</td>
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<td>Technical Elective (advanced)</td>
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<tr>
<td></td>
<td>UNT Core: Language, Philosophy and Culture</td>
<td>See list of approved courses</td>
<td>Technical Elective (advanced)</td>
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</tr>
<tr>
<td></td>
<td>UNT Core: Social &amp; Behavioral Science</td>
<td>See list of approved courses</td>
<td></td>
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** Note: prerequisites for MATH 3410 are MATH 2314 or MATH 2414 (TCCNS Values). MATH 2318 or MATH 2418 recommended (TCCNS values).
Courses Recommended for Transfer

The UNT Core requirements, with the exception of American History and Government/Political Science, and the College & Major 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; CRJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

Mechanical & Energy Engineering: Major Requirements

No TCCNS options available.

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.

UNT Core: Component Area Option Category I

One course chosen from: ARTS 1301; BIOL/HECO 1322; COMM 1307; MATH 2305 or 2405; SPCH 1311 or 1315; TECA 1303

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

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).

http://essc.unt.edu/registrar/articulation/
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 Life and Physical Sciences 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 Course Requirements (continued)**

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

Satisfactory completion of Mechanical & Energy Engineering foundation courses with a minimum GPA of 2.5 is prerequisite to take advanced courses in the major. Each semester the student must receive mandatory advisement until the foundation courses have been successfully completed.

**Mechanical & Energy 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
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