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 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

| Course Options |
|----------------|-----------------|
| ENGL 1301; and ENGL 1302 or 2311 |

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

**UNT Core: Social & Behavioral Sciences**

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

#### UNT Core: Mathematics

This requirement will be met by fulfilling the Mechanical & Energy Engineering program requirements (see “Other Course Requirements”).

**UNT Core: Natural Science**

This requirement will be met by fulfilling the Mechanical & Energy Engineering program 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

**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: Humanities

**Mechanical & Energy Engineering: Engineering Fundamentals Requirements**

TCCNS options:

- ENGR 1204 or 1304
- ENGR 2302 or 2402
- ENGR 2303 or 2403 or ENGR 2301 (substitutes for UNT's ENGR 2301)
- ENGR 2332 or 2432 (substitutes for UNT's ENGR 2332)
- ENGR 2307
- COSC 1315 or 1415

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.

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http://essc.unt.edu/registrar/articulation/  
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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 2318 or 2418

**Required courses in laboratory science:**
- CHEM 1411 (or 1311/1111) and CHEM 1412 (or 1312/1112)
  - CHEM 1415/1435, only offered at UNT is recommended. It will satisfy the Chemistry requirement.
- PHYS 2425 or 2325/2125
- PHYS 2426 or 2326/2126

CHEM and PHYS courses listed above fulfill both Natural Science core and major requirements.

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

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:

College of Engineering: Admission Requirements (continued)

**Mathematics:** This course will also fulfill Mechanical and Energy Engineering 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 and Energy Engineering 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 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 2.5 GPA is required for Mechanical & Energy Engineering 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 2012-2013](http://essc.unt.edu/registrar/articulation/).

For additional program and contact information see the College of Engineering Student Advising website: [http://engineering.unt.edu/advising](http://engineering.unt.edu/advising)

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## College of Engineering
### B.S. Mechanical & Energy Engineering
#### 2012-2013 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](http://essc.unt.edu/registrar/articulation/) 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><strong>FRESHMAN</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</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>CSCE 1020</td>
<td>COSC 1315 or 1415</td>
</tr>
<tr>
<td></td>
<td>ENGL 1310 or 1313</td>
<td>ENGL 1301</td>
</tr>
<tr>
<td></td>
<td>MEEN 1000</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOPHOMORE</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td></td>
<td>MATH 2700</td>
<td>MATH 2318 or 2418</td>
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<tr>
<td></td>
<td>PHYS 2220/2240</td>
<td>PHYS 2426 or 2326/2126</td>
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<td></td>
<td>ENGR 2301</td>
<td>ENGR 2303 or 2403 or ENGR 2301#</td>
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<td></td>
<td>ENGR 1304</td>
<td>ENGR 1204 or 1304</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Social &amp; Behavioral Science</td>
<td>See list of approved courses</td>
</tr>
</tbody>
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<tr>
<th>Year</th>
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<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JUNIOR</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
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<td></td>
<td>MEEN 3250</td>
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<td>MEEN 3130</td>
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<td></td>
<td>MEEN 3240</td>
<td>MEEN 3210</td>
</tr>
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<td></td>
<td>ENGR 2405 or EENG 2610</td>
<td>ENGR 2307</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Political Science</td>
<td>See list of approved courses</td>
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</tbody>
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*B.S. Mechanical & Energy Engineering*

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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
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<tr>
<td>Senior</td>
<td>MEEN 4150</td>
<td>None</td>
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<tr>
<td></td>
<td>Energy Engineering Elective</td>
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<tr>
<td></td>
<td>Technical Elective (advanced)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UNT Core: Humanities</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>UNT Core: U.S. History</td>
<td>See list of approved courses</td>
</tr>
</tbody>
</table>

* Note: Mechanical & Energy Engineering program requires CHEM 1415/1435 offered at UNT or CHEM 1411 and CHEM 1412 (TCCNS values). The College of Engineering strongly recommends that the student takes CHEM 1415/1435 at UNT.

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