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 & Energy Engineering major requirements (see next column).

**UNT Core: Natural Science**

This requirement will be met by fulfilling the Mechanical & Energy Engineering major requirements (see next column).

**UNT Core: U.S. History**

Two courses chosen from: HIST 1301, 1302, 2301, 2327, 2328, 2381

**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: ARCH 1301, 1302; ARTS 1301 or 1304; COMM 2366; DRAM 1310, 2361, 2362, 2363, 2366, 2367; DANC 2303, 2304; HUMA 1315; MUSI 1306, 1307, 1308, 1309

**UNT Core: Humanities**

One course chosen from: ENGL 2321, 2322, 2323, 2326, 2327, 2328, 2331, 2332, 2333, 2341, 2342, 2343, 2351; HUMA 1301, 1302; PHIL 1301, 2303, 2306, 2316, or 2317

**UNT Core: Social & Behavioral Sciences**

One course chosen from: ANTH 2346, 2351; CRJ 1301; ECON 1301, 2301, 2302; GEOG 1302; HUMA 2323; PSYC 2301; SOCI 1301, 1306; TECA 1354

Courses Recommended for Transfer

**UNT Core: Understanding the Human Community**

Two courses chosen from:

- Foreign Language (ARAB, CHIN, FREN, GERM, ITAL, JAPN, PORT, RUSS, SPAN): 1311/1411/1511, 1312/1412/1512, 2311,2312
- ARTS 1303
- BIOL/HECO 1322
- BIOL 1323
- COMM 1307
- DANC 1305
- DANC 1306
- GEOG 1303
- HIST 2321
- HIST 2322
- HUMA 2319
- MUSI 1310
- PHIL 1304
- SOCI 2319
- SOCI 2320
- SPCH 1311
- SPCH 1315
- SPCH 1318
- SPCH 1321
- SPCH 2341
- TECA 1303
- TECA 1318

*SPCH 1321 is recommended.*

**Mechanical & Energy Engineering Major Requirements/TCCNS Options**

- CHEM 1411 (or 1311/1111) and CHEM 1412 (or 1312/1112)
- COSC 1315 or 1415
- ENGL 2311
- ENGR 2332 or 2432 (substitutes for UNT's ENGR 2332)
- MATH 2313 or 2413 or 2513 (fulfills both Mathematics and major requirements).
- MATH 2314 or 2414 (fulfills both Mathematics and major requirements).
- MATH 2315 or 2415
- MATH 2318 or 2418
- PHYS 2425 or 2325/2125
- PHYS 2426 or 2326/2126
- SPCH 1321 (substitutes for UNT's ENGR 2060; fulfills a portion of Understanding the Human Community core and major requirements)

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.*

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College of Engineering

B.S. Mechanical & Energy Engineering

2010-2011 Texas Common Course Numbering System Transfer Guide

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) in the Undergraduate Studies Office 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 completed prior to enrollment in upper-division courses. Students must achieve a grade of C or better for each course and must maintain a minimum GPA of 2.5 in each of the following three course groups:

**Mathematics:** A minimum of 6 hours chosen from the list of approved courses; these courses will also fulfill Mechanical & Energy Engineering major requirements.
- TCCNS Options: MATH 2313 or 2413 or 2513; MATH 2314 or 2414; MATH 2315 or 2415; MATH 2318 or 2418

**Science:** Three courses including laboratories chosen from the list of approved courses; these courses will also fulfill Mechanical & Energy Engineering major requirements.
- TCCNS Options: CHEM 1411 or 1311/1111 and CHEM 1412 or 1312/1112; PHYS 2425 or 2325/2125; PHYS 2426 or 2326/2126

**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" in the Academics 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:** Complies with the mandates of the 1997 Texas Legislature regarding requirements for state-assisted institutions. 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 2010-2011.

For additional program and contact information see the College of Engineering Student Advising website:
http://www.eng.unt.edu/advising.htm

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## College of Engineering

### B.S. Mechanical & Energy Engineering

#### 2010-2011 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>
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<tbody>
<tr>
<td><strong>FRESHMAN</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>ENGL 1310 or 1313</td>
<td>ENGL 1301</td>
<td>TECM 2700</td>
</tr>
<tr>
<td>CHEM 1410/1430</td>
<td>CHEM 1411 or 1311/1111</td>
<td>UNT Core: U.S. History</td>
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<tr>
<td>CSCE 1020</td>
<td>COSC 1315 or 1415</td>
<td>MEEN 1210</td>
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<tr>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
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<tr>
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<td>CHEM 1420/1440</td>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>SOPHOMORE</strong></td>
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<td>MEEN 2130</td>
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<td>ENGR 2332#</td>
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<td>MATH 2700</td>
<td>MATH 2318 or 2418</td>
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<td>ENGR 2060#</td>
<td>SPCH 1321</td>
<td>MEEN 2210</td>
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<td>PHYS 2220/2240</td>
<td>PHYS 2426 or 2326/2126</td>
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<td>MATH 2730</td>
<td>MATH 2315 or 2415</td>
<td>MATH 3310</td>
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<th>Spring Semester</th>
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<tbody>
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<td>TCCNS Option</td>
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<td>EENG 2610</td>
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<td>MEEN 3230</td>
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<tr>
<td>MEEN 3110</td>
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<td>MEEN 3125</td>
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<td>ENGR 3450/3451</td>
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<td>MEEN 3242</td>
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<td>UNT Core: Political Science</td>
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<td>UNT Core: Understanding the Human Community</td>
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<td>Technical Elective (advanced)</td>
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