**College of Engineering**  
**B.S. Materials Science & 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>
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<tbody>
<tr>
<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>FRESHMAN</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>ENGL 1310 or 1313</td>
<td>ENGL 1301</td>
</tr>
<tr>
<td></td>
<td>MTSE 1100</td>
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<tr>
<td></td>
<td>UNT Core: American History</td>
<td>See list of approved courses</td>
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<tr>
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<td></td>
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<tr>
<td>SOPHOMORE</td>
<td>MATH 2700</td>
<td>MATH 2318 or 2418</td>
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<td>PHYS 2220/2240</td>
<td>PHYS 2426 or 2326/2126</td>
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<td></td>
<td>ENGR 2301</td>
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<tr>
<td></td>
<td>MTSE 3000</td>
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<tr>
<td></td>
<td>UNT Core: Government/Political Science</td>
<td>See list of approved courses</td>
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<tr>
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<th>Spring Semester</th>
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<tbody>
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<th>Spring Semester</th>
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<td></td>
<td>UNT Core: Language, Philosophy and Culture</td>
<td>See list of approved courses</td>
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http://registrar.unt.edu/transfer-guides  
Last Revised: April 14, 2017
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.

**UNT Core: Mathematics**
- This requirement will be met by fulfilling the Materials Science & Engineering program requirements (see "Other Course Requirements").

**UNT Core: Life & Physical Sciences**
- This requirement will be met by fulfilling the Materials Science & 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 2322 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 I**
- This requirement will be met by fulfilling the B.S. in Materials Science & Engineering program requirements.

**UNT Core: Component Area Option Category II**
- This requirement will be met by fulfilling the B.S. in Materials Science & Engineering program requirements (see "Other Course Requirements" below).

**Materials Science & Engineering: Major Requirements**
- No TCCNS Options Available.

**Materials Science & Engineering: Other Course Requirements**
- **TCCNS options:**
  - **Required course in Technical Writing:**
    - ENGL 2311
  - **Required courses in engineering:**
    - ENGR 2301 or 2401
  - **Required courses in mathematics:**
    - MATH 2313 or 2413 or 2513 (fulfills Mathematics core and program requirements).
    - MATH 2314 or 2414
    - MATH 2318 or 2418
  - **Required courses in laboratory science:**
    - CHEM 1411 or 1311/1111
    - CHEM 1312 or 1412
    - PHYS 2425 or 2325/2125
    - PHYS 2426 or 2326/2126
- CHEM and PHYS courses listed above fulfill both Life & Physical Sciences core and major requirements. Courses listed above are TCCNS options and do not include all courses required for the UNT Materials Science & Engineering major.
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

Satisfactory completion of the MTSE foundation courses with a minimum GPA of 2.5 is prerequisite to taking advanced courses in the major. Each semester the student is required mandatory advisement until the foundation courses have been successfully completed.

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

- 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.

For applicants who do not meet the above requirements, admissions will be granted on entry into MATH 1710 (Calculus I; TCCNS: MATH 2313 or 2413 or 2513) and good academic standing with a cumulative UNT grade point average of 2.0 or higher.

After admission criteria are met by the applicant, the student will be accepted as a major in his or her program of study. The student must adhere to the requirements below in order to be accepted as a full major and to be allowed to enroll in upper-division courses in the College of Engineering.
Special Notes

Hours Required and General/College Requirements:
A minimum of 120 semester hours, of which 45 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 materials science and engineering 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.