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>UNT Requirement: MATH 1710, CHEM 1410/1430, ENGL 1310 or 1313, MTSE 1100#</td>
<td>TCCNS Option: MATH 2313 or 2413 or 2513, CHEM 1411 or 1311/1111, ENGR 1201, TECM 2700</td>
</tr>
<tr>
<td></td>
<td>UNT Core: American History [See list of approved courses]</td>
<td>UNT Core: American History [See list of approved courses]</td>
</tr>
<tr>
<td>Sophomore</td>
<td>UNT Requirement: MATH 2730, PHYS 2220/2240, ENGR 2301, MTSE 3000</td>
<td>TCCNS Option: PHYS 2315 or 2415, PHYS 2426 or 2326/2126, ENGR 2301 or 2401, MTSE 3000</td>
</tr>
<tr>
<td></td>
<td>PSCI 2305</td>
<td>UNT Core: Creative Arts [See list of approved courses]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>UNT Core: Social &amp; Behavioral Science [See list of approved courses]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Junior</td>
<td>UNT Requirement: MTSE 3010, MTSE 3020, MTSE 3030</td>
<td>TCCNS Option: None</td>
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<tr>
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<td>MTSE 3050</td>
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<td></td>
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<td>MTSE 3060</td>
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<tr>
<td></td>
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<td>MTSE 3070</td>
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<td>MTSE 3080</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MTSE 3100</td>
</tr>
<tr>
<td>Senior</td>
<td>UNT Requirement: MTSE 4010, MTSE 4030, MTSE 4050, MTSE 4090</td>
<td>TCCNS Option: None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MTSE 4060</td>
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<tr>
<td></td>
<td></td>
<td>MTSE 4100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MTSE Elective</td>
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<tr>
<td></td>
<td></td>
<td>MTSE Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Language, Philosophy and Culture [See list of approved courses]</td>
<td>PSCI 2306</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GOVT 2306</td>
</tr>
</tbody>
</table>

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Courses Recommended for Transfer

The UNT Core 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: ARTS 1303, 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

Materials Science & Engineering: Major Requirements

TCCNS options:

• ENGR 1201

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 2315 or 2415
• MATH 2320 or 2420 (substitutes for UNT's MATH 3410)

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 Life & Physical Sciences core, a portion of CAO core, and major requirements.

Courses listed above are TCCNS options and do not include all
College of Engineering
B.S. Materials Science & Engineering
2020-2021 Texas Common Course Numbering System Transfer Guide

Materials Science & Engineering: Other Requirements

Materials Science & Engineering foundation courses include:

- MTSE 1100 at UNT
- MATH 2313 or 2413 or 2513
- MATH 2314 or 2414
- CHEM 1411 or 1311/1111
- CHEM 1312 or 1412
- PHYS 2426 or 2326/2126
- ENGL 1301
- ENGL 2311
- MTSE 3000 at UNT

Successful completion of foundation courses is based on achieving a C or higher in each course and a cumulative GPA of 2.0. Each semester the student is required mandatory advisement until the foundation courses have been successfully completed.

College of 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

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

- Transfer applicants must have a minimum 2.0 GPA in math/science/engineering courses and 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.

Students not meeting the admission requirements for the major to be directly enrolled in a degree major in the College of Engineering will be supported through enrollment as a pre-major in their corresponding program.

Students classified as pre-majors will be reclassified into their respective major within the College of Engineering upon completing the corresponding course listed below with a C or higher and a student in good standing:

<table>
<thead>
<tr>
<th>Pre-major</th>
<th>Course to be completed with a C or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Computer Science</td>
<td>CSCE 1030</td>
</tr>
<tr>
<td>Pre-Information Technology</td>
<td>CSCE 1030</td>
</tr>
<tr>
<td>Pre-Computer Engineering</td>
<td>CSCE 1030</td>
</tr>
<tr>
<td>Pre-Electrical Engineering</td>
<td>MATH 1710</td>
</tr>
<tr>
<td>Pre-Mechanical and Energy Engineering</td>
<td>MATH 1710</td>
</tr>
<tr>
<td>Pre-Biomedical Engineering</td>
<td>MATH 1710</td>
</tr>
</tbody>
</table>

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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.

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

<table>
<thead>
<tr>
<th>Pre-Materials Science and Engineering</th>
<th>MATH 1710</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Mechanical Engineering Technology</td>
<td>MATH 1710</td>
</tr>
<tr>
<td>Pre-Construction Engineering Technology</td>
<td>MATH 1710</td>
</tr>
</tbody>
</table>