### College of Engineering

**B.S. Computer Engineering**

**2015-2016 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>
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<tr>
<td>FRESHMAN</td>
<td></td>
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<tr>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
<td>MATH 1720</td>
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<tr>
<td>CHEM 1410/1430</td>
<td>CHEM 1411 or 1311/1111</td>
<td>PHYS 1710/1730</td>
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<tr>
<td>CSCE 1030</td>
<td>COSC 1336 or 1436</td>
<td>CSCE 1040</td>
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<tr>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
<td>TECM 2700</td>
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<tr>
<td>UNT Core: Discovery</td>
<td>See list of approved courses</td>
<td>UNT Core: Creative Arts</td>
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<tr>
<td>SOPHOMORE</td>
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<td>MATH 2700</td>
<td>MATH 2318 or 2418</td>
<td>MATH 1780</td>
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<td>PHYS 2220/2240</td>
<td>PHYS 2426 or 2326/2126</td>
<td>CSCE 3612</td>
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<td>EENG 2610 or EENG 2405</td>
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<td>ENGR 2415</td>
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<td>CSCE 2100</td>
<td>CSCE 2610</td>
<td>CSCE 2325 or 2425</td>
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<td>CSCE 2110</td>
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<td>JUNIOR</td>
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<tr>
<td>CSCE 3010</td>
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<td>CSCE 3020</td>
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<td>CSCE 3730</td>
<td>CSCE 3600</td>
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<tr>
<td>UNT Core: Language, Philosophy and Culture</td>
<td>See list of approved courses</td>
<td>UNT Core: American History</td>
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<tr>
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<td>MATH 2315 or 2415</td>
<td>UNT Core: Government/Political Science</td>
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<td>See list of approved courses</td>
<td>UNT Core: Social &amp; Behavioral Science</td>
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<td>SENIOR</td>
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<td>CSCE 4910</td>
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<td>CSCE 4011 (Capstone)</td>
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<td>CSCE 4915</td>
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<tr>
<td>UNT Core: American History</td>
<td>See list of approved courses</td>
<td>CSCE Specialty Area Elective (advanced)</td>
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http://registrar.unt.edu/transfer-guides

Last Revised: May 13, 2015
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. Computer Engineering degree within four years, students should plan to take Calculus I (MATH 2313 or 2413 or 2513) during the first semester of their freshman year, and EENG 2710 (available at UNT only) during the first semester of their sophomore 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

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.

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**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 Computer Engineering program requirements (see “Other Course Requirements”).

**UNT Core: Life & Physical Sciences**

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

**UNT Core: American History**

Two courses chosen from: HIST 1301, 1302, 2301

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**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 or 1307; 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; CRIJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SPCH 1318; TECA 1354

**UNT Core: Discovery**

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

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**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 Computer Engineering program requirements (see “Other Course Requirements”).

**UNT Core: Life & Physical Sciences**

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

**UNT Core: American History**

Two courses chosen from: HIST 1301, 1302, 2301

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**Computer Engineering: Major Requirements**

TCCNS options:

- COSC 1336 or 1436
- COSC 1337 or 1437
- COSC 2325 or 2425
- ENGR 2307 or ENGR 2305 (substitutes for UNT’s ENGR 2405)
- ENGR 2107

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

**Computer Engineering: Other Course Requirements**

TCCNS options:

**Required course in Technical Writing:**

- ENGL 2311

**Required courses in mathematics:**

- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core 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
- 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 Computer Engineering major.

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Last Revised: May 13, 2015
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 if:

1) They were in the top 25% of their graduating class and have a math SAT score of 570 or better and a total SAT score of 1070 or better; or a math ACT score of 23 or better and a cumulative ACT score of 23 or better.

2) They were in the top 50% of their graduating class or have no graduating class ranking (home schooled, GED, international students, etc) and have a math SAT score of 600 or better and a total SAT score of 1100 or better; or a math ACT score of 24 or better and a cumulative ACT score of 24 or better.

3) They have a math SAT score of 630 or better and a total SAT score of 1180 or better; or a math ACT score of 26 or better and a cumulative ACT score of 26 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
- 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.

**College of Engineering Foundations Requirements**

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:

Mathematics: This course will also fulfill Material Science and 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 Materials Science and 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 Communication requirement.
- TCCNS Option: ENGL 2311.

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