## UNT Core: English Composition & Rhetoric

ENGL 1301; and ENGL 1302 or 2311

*ENGL 2311 is recommended.*

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

## UNT Core: Mathematics

This requirement will be met by fulfilling B.S. Mathematics major requirements (see next column).

## UNT Core: Natural Science

This requirement will be met by fulfilling B.S. Mathematics laboratory science requirement (see next column).

## 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
- GOVT 2301 and 2306
- GOVT 2302 and 2306

## 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

This requirement will be met by fulfilling the Teach North Texas Program requirement (next page).

## UNT Core: Social & Behavioral Sciences

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

## UNT Core: Discovery

This requirement will be met by fulfilling the B.S. Mathematics major requirement (see below).

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## UNT Core: Capstone

This requirement will be met by fulfilling teacher certification requirements.

## B.S. Mathematics: Laboratory Sciences

Complete one of the following options:

### Option I. Biology Emphasis

- BIOL 1406 or 1106/1306
- BIOL 1407 or 1107/1307

### Option II. Chemistry Emphasis

- CHEM 1411 or 1111/1311
- CHEM 1412 or 1112/1312

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

## B.S. Mathematics: Foreign Language

Students may complete either of two options to satisfy the College of Arts and Sciences foreign language requirement:

### Option I: Proficiency in a foreign language equivalent to 1312 or 1412 or 1512. Students intending to pursue a graduate degree in mathematics are encouraged to study French, German or Russian.

### Option II: Complete 6 hours of technical writing courses from the following: ENGL 2311 and additional upper level options at UNT.

## B.S. Mathematics: Major Requirements

- MATH 2313 or 2413 or 2513
- MATH 2314 or 2414
- MATH 2315 or 2416
- MATH 2318 or 2418

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

Students must achieve a grade point average of at least 2.0 in all mathematics courses above 3350.

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Last Revised: February 1, 2013
Special Notes

Hours Required and General/College Requirements:
A minimum of 120 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 Arts and Sciences requirements.

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 Arts & Sciences required curriculum and policies are located in the Undergraduate Catalog 2011-2012.

For additional program and contact information see the College of Arts and Sciences Student Advising website: http://www.cas.unt.edu/advising

B.S. Mathematics: Other Course Requirements

- COSC 1315 or 1415, or COSC 1336 or 1436

Computer Programming: COSC 1315 or COSC 1336 is required. Students taking mathematics courses at the 2000-level or above are expected to be competent in computer programming, using languages such as BASIC, C, C++, Fortran, PASCAL or Java. Students are encouraged to complete the programming requirement during their freshman or sophomore year. Students who have acquired a solid programming competency in a non-academic setting, such as through work experience, may demonstrate their programming competency by passing a departmental exam in place of the COSC 1315 or 1415; or COSC 1336 or 1436 course requirement.

Teach North Texas Minor requirements:
A minor in mathematics and science secondary teaching, administered by Teach North Texas, is required.

A 2.5 GPA is required on all courses counting toward the Teach North Texas Minor, see current UNT Undergraduate Catalog for all minor requirements.

PHIL 2600, offered only at UNT, will fulfill both the Humanities core and the Teach North Texas requirements.

Teacher Certification Information
To be certified to teach in the State of Texas, the student must successfully pass the following exams.

Exam #1 TExES: Pedagogy & Professional Responsibilities (EC-12)
Exam #2 TExES: Mathematics (8-12)

Additional requirements for Teacher Certification in Mathematics include a 2.5 overall GPA (including all transferred courses), a 2.5 UNT GPA and a 2.5 major GPA.

http://essc.unt.edu/registrar/articulation/
College of Arts & Sciences  
**B.S. Mathematics**  
**Secondary-Level Teachers Certification (Grades 8-12)**  
**2011-2012 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.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN</td>
<td><strong>UNT Requirement</strong></td>
<td><strong>TCCNS Option</strong></td>
</tr>
<tr>
<td></td>
<td>ENGL 1310 or 1313</td>
<td>ENGL 1301</td>
</tr>
<tr>
<td></td>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Political Science</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>CSCE 1020 or CSCE 1030</td>
<td>COSC 1315 or 1415 or COSC 1336 or 1436</td>
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<td></td>
<td>TNTX 1100*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>B.S. Math: Laboratory Science</td>
<td>See list of approved courses</td>
</tr>
</tbody>
</table>

*Students must be admitted to the Teach North Texas Program prior to enrolling in certain Education courses.*

<table>
<thead>
<tr>
<th>YEAR</th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
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<tbody>
<tr>
<td>SOPHOMORE</td>
<td><strong>UNT Requirement</strong></td>
<td><strong>TCCNS Option</strong></td>
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<tr>
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<td>EDSE 3500*</td>
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<tr>
<td></td>
<td>Foreign Language 1020 or advanced technical writing</td>
<td>Foreign Language 1312 or 1412 or 1512</td>
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<td>MATH 2700</td>
<td>MATH 2318 or 2418</td>
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<td>MATH 2730</td>
<td>MATH 2315 or 2415</td>
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<td></td>
<td>B.S. Math Laboratory Science</td>
<td>See list of approved courses</td>
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<th>SPRING SEMESTER</th>
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<tbody>
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<td>JUNIOR</td>
<td><strong>UNT Requirement</strong></td>
<td><strong>TCCNS Option</strong></td>
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<td>MATH 3510 or 3610</td>
<td>MATH 4060</td>
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<td>MATH Elective</td>
<td>PHIL 2600</td>
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<td>See list of approved courses</td>
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<tr>
<td></td>
<td>UNT Core: Social &amp; Behavioral Science</td>
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<th>SPRING SEMESTER</th>
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<tbody>
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<td>SENIOR</td>
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<td><strong>TCCNS Option</strong></td>
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<tr>
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<td>EDSE 4500*</td>
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