The College of Arts and Sciences encourages students to explore teaching at the secondary level as a career option. Students seeking secondary teacher certification should contact the Teach North Texas in the College of Arts and Sciences.

Courses Recommended for Transfer

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 page two).

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, 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; CRIJ 1301; ECON 1301, 2301, 2302; GEOG 1302; HUMA 2323; PSYC 2301; SOCI 1301, 1306; TECA 1354

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
- HUMA 2319
- MUSI 1310
- PHIL 1304
- SOCI 2319
- SPCH 1311
- SPCH 1315
- SPCH 1318
- SPCH 1321
- SPCH 2341
- TECA 1303
- TECA 1318

B.S. Mathematics: Laboratory Sciences
Physics Emphasis
- PHYS 2425 or 2125/2325
- PHYS 2426 or 2126/2326

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.

Students who select this option will satisfy the UNT Core Understanding the Human Community requirement and will not need additional courses for the UNT Core Understanding the Human Community requirement.

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

http://essc.unt.edu/registrar/articulation/  Last Revised: August 17, 2011
### 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 2350.

### 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.

### 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 (Grades 8-12)**

**Exam #2 TExES: Mathematics and Physics**

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.
# College of Arts & Sciences
## B.S. Mathematics
### Secondary-Level Teachers Certification (Grades 8-12)
#### Mathematics and Physics

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 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></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>FRESHMAN</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>
</tr>
<tr>
<td></td>
<td>TNTX 1100*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>None</td>
<td>None</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>
</tr>
</thead>
<tbody>
<tr>
<td>SOPHOMORE</td>
<td>EDSE 3500*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Foreign Language 1020 or advanced technical writing</td>
<td>Foreign Language 1312 or 1412 or 1512</td>
</tr>
<tr>
<td></td>
<td>MATH 2700</td>
<td>MATH 2318 or 2418</td>
</tr>
<tr>
<td></td>
<td>MATH 2730</td>
<td>MATH 2315 or 2415</td>
</tr>
<tr>
<td></td>
<td>PHYS 2220/2240</td>
<td>PHYS 2426 or 2326/2126</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUNIOR</td>
<td>PHYS 3010/3030</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>MATH 3510 or 3610</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>MATH algebra (advanced)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>UNT Core: U.S. History</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Social &amp; Behavioral Science</td>
<td>See list of approved courses</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENIOR</td>
<td>EDSE 4500*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>MATH Elective (3350 or higher)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>MATH Elective (3350 or higher)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>PHYS 4700</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Humanities</td>
<td>See list of approved courses</td>
</tr>
</tbody>
</table>

[http://essc.unt.edu/registrar/articulation/](http://essc.unt.edu/registrar/articulation/)

Last Revised: August 17, 2011