### Fall Semester | Spring Semester
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**FRESHMAN**

<table>
<thead>
<tr>
<th></th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
<td>B.A. Math Major: Laboratory Science</td>
<td>See list of approved courses</td>
<td></td>
</tr>
<tr>
<td>Foreign Language 2040</td>
<td>Foreign Language 2311</td>
<td>Foreign Language 2050</td>
<td>Foreign Language 2312</td>
<td></td>
</tr>
<tr>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
<td>MATH 1720</td>
<td>MATH 2314 or 2414</td>
<td></td>
</tr>
<tr>
<td>MATH 2000 (counts as CAO Category I)</td>
<td>MATH 2305 or 2405</td>
<td>TECM 2700</td>
<td>ENGL 2311</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>Consult UNT Advisor</td>
<td>TNTX 1200* (2 hrs)</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>TNTX 1100* (1hr)</td>
<td>None</td>
<td>MATH 2100</td>
<td>None</td>
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</tr>
</tbody>
</table>

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

### Sophomore Year

<table>
<thead>
<tr>
<th></th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
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</thead>
<tbody>
<tr>
<td>PSCI 2305</td>
<td>GOVT 2305</td>
<td>PSCI 2306</td>
<td>GOVT 2306</td>
<td></td>
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<tr>
<td>MATH 2700</td>
<td>MATH 2318 or 2418</td>
<td>CSCE 1020 or CSCE 1030</td>
<td>COSC 1315 or 1415 or COSC 1336 or 1436</td>
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<tr>
<td>MATH 2730</td>
<td>MATH 2315 or 2415</td>
<td>MATH 3680</td>
<td>None</td>
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</tr>
<tr>
<td>B.A. Math Major: Laboratory Science</td>
<td>See list of approved courses</td>
<td>MATH 3000</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>EDCI 3500*</td>
<td>None</td>
<td>Elective</td>
<td>Consult UNT Advisor</td>
<td></td>
</tr>
</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th></th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3510 or 3610</td>
<td>None</td>
<td>UNT Core: American History</td>
<td>See list of approved courses</td>
<td></td>
</tr>
<tr>
<td>MATH 4050</td>
<td>None</td>
<td>UNT Core: Creative Arts</td>
<td>See list of approved courses</td>
<td></td>
</tr>
<tr>
<td>PHIL 2600 (counts as Language, Philosophy &amp; Culture)</td>
<td>None</td>
<td>MATH 3850</td>
<td>None</td>
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</tr>
<tr>
<td>EDCI 4000*</td>
<td>None</td>
<td>MATH 4060</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>UNT Core: American History</td>
<td>See list of approved courses</td>
<td>TFTX 3100</td>
<td>B.A. Math Major: Laboratory Science</td>
<td>See list of approved courses</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
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<th>TCCNS Option</th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNT Core: Social &amp; Behavioral Sciences</td>
<td>See list of approved courses</td>
<td>EDSE 4608* (Student Teaching)</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>EDCI 4500*</td>
<td>None</td>
<td>EDSE 4618* (Student Teaching)</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>MATH analysis or algebra requirement (advanced)</td>
<td>None</td>
<td>EDSE 4628* (Student Teaching Seminar)</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Elective (advanced)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>Consult UNT Advisor</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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http://registrar.unt.edu/transfer-guides

Last Revised: April 26, 2017
The College of Science expects students to have completed the Texas State recommended high school program and be ready to enroll in Language 2040 (TCCNS: Language 2311). If you are not prepared for this level, the necessary prerequisites will either replace electives or increase the hours required for this degree.

Courses Recommended for Transfer
The UNT Core requirements, with the exception of American History 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.
**ENGL 2311 is recommended instead of ENGL 1302.**

UNT Core: Mathematics
This requirement will be met by fulfilling the B.A. Mathematics major requirements (see next column).

UNT Core: Life & Physical Sciences
This requirement will be met by fulfilling the B.A. Mathematics laboratory science requirement (see next page).

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

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

UNT Core: Component Area Option Category I
This requirement will be met by fulfilling the B.A. Mathematics major requirement (see next column).

UNT Core: Component Area Option Category II
This requirement will be met by fulfilling the B.A. Mathematics major requirement (see next page).

College of Science Core: Foreign Language
Any foreign language 2311 and 2312.
Courses must be taken in the same language.
**NOTE:** Prerequisites for foreign language 2311 and 2312 courses are 1311 and 1312 or 1411 and 1412 or 1511 and 1512. Placement exams may be available; see your community college academic advisor for details.

B.A. Mathematics: Major Requirements
- MATH 2313 or 2413 or 2513 (fulfills both university mathematics core and major requirements)
- MATH 2314 or 2414
- MATH 2318 or 2418
- MATH 2315 or 2415
- MATH 2305 or 2405 (fulfills both university core CAO Category I and major requirements)

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

Mathematics: Other course requirements
The College of Science major in mathematics with Teacher Certification requires students to complete at least 11 hours in laboratory sciences. These also fulfill university core Life & Physical Sciences and CAO Category II requirements.

Option I
Group I: Complete the following course:
- BIOL 1406 or 1106/1306**

Mathematics majors with a minor in geography or geology may also choose GEOL 1403 and GEOL 1401.

Group II: Complete one of the following laboratory courses:
- PHYS 2425 or 2325/2125
- CHEM 1411 or 1111/1311

Group III: Complete one of the following Laboratory courses.
- ANTH 2401 or 2101/2301
- BIOL 1407 or 1107/1307**
- BIOL 1411 or 1111/1311
- BIOL 1413 or 1113/1313
- BIOL 2401 or 2101/2301
- BIOL 2402 or 2102/2302
- BIOL 2406 or 2106/2306
- GEOL 1401 or 1101/1301
- GEOL 1403 or 1103/1303

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College of Science

B.A. Mathematics

Secondary-Level Teacher Certification (Grades 7-12)

2017-2018 Texas Common Course Numbering System Transfer Guide

Mathematics: Other course requirements (Cont.)

Option II

Group I: Complete two of the following Laboratory courses.
- CHEM 1411 OR 1311/1111
- CHEM 1412 OR 1312/1112
- PHYS 2425 OR 2325/2125
- PHYS 2426 OR 2326/2146

Group II: Complete one of the following Laboratory courses.
- ANTH 2401 or 2101/2301
- BIOL 1406 or 1106/1306**
- BIOL 1407 or 1107/1307**
- BIOL 1411 or 1111/1311
- BIOL 1413 or 1113/1313
- BIOL 2401 or 2101/2301
- BIOL 2402 or 2102/2302
- BIOL 2406 or 2106/2306
- BIOL 2401 or 1101/1301
- BIOL 2402 or 1102/1302
- BIOL 2406 or 1106/1306
- GEOL 1401 or 1101/1301
- GEOL 1402 or 1102/1302
- GEOL 1406 or 1106/1306
- GEOL 2401 or 2101/2301
- GEOL 2402 or 2102/2302
- GEOL 2406 or 2106/2306

** Approved substitution

Option III

Students double majoring in mathematics and another discipline (typically biology, chemistry, physics or engineering) that requires at least 12 hours of laboratory science intended for science and engineering majors may use the same laboratory science courses that satisfy the requirements for the other major to satisfy the laboratory science requirement for the mathematics major.

Computer Programming course

Choose one course from below:
- COSC 1315 or 1415
- 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 2.75 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 Language, Philosophy and Culture 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 (7-12)

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.

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 Arts degree as specified in the General University Requirements section of the UNT catalog and the College of Science 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 Science required curriculum and policies are located in the undergraduate catalog under the corresponding catalog year.

For additional program and contact information, visit the College of Science Student Advising website at www.cos.unt.edu/advising.

http://registrar.unt.edu/transfer-guides

Last Revised: April 26, 2017