## College of Arts & Sciences
### B.A. Chemistry, Secondary Education Certification in Chemistry Grades (7-12)
#### 2016-2017 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>FRESHMAN</td>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
</tr>
<tr>
<td></td>
<td>CHEM 1410/1430 or CHEM 1412#/1430 or CHEM 1413#/1430</td>
<td>CHEM 1411 or 1311/1111 or CHEM 1420/1440 or CHEM 1422#/1440 or CHEM 1423#/1440</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Creative Arts</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>TNTX 1100* (1 hr)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
</tr>
</tbody>
</table>

* Students must be admitted to 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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</thead>
<tbody>
<tr>
<td>SOPHOMORE</td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td></td>
<td>CHEM 2370/3210#</td>
<td>CHEM 2423 or 2123/2323</td>
</tr>
<tr>
<td></td>
<td>PHYS 1410/1430 or PHYS 1510#/1530# or PHYS 1710/1730</td>
<td>PHYS 1401 or 1301/1101 or PHYS 2425 or 2325/2125</td>
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<tr>
<td></td>
<td>PHIL 2600</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Foreign Language 2040</td>
<td>Foreign Language 2311</td>
</tr>
<tr>
<td></td>
<td>CAS Core: Natural/Life Sciences</td>
<td>See list of approved courses</td>
</tr>
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</table>

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<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>JUNIOR</td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td></td>
<td>BIOC 3621 &amp; 3622</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Government/Political Science</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>CHEM 3451 &amp; 3452</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>UNT Core: American History</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Social &amp; Behavioral Sciences</td>
<td>See list of approved courses</td>
</tr>
</tbody>
</table>

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<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>SENIOR</td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td></td>
<td>Elective (advanced)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Elective (advanced)</td>
<td>None</td>
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<tr>
<td></td>
<td>CHEM (4000 level)</td>
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</tr>
<tr>
<td></td>
<td>EDSE 4000*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>EDSE 4500*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>CHEM 4900 (Research Experience)</td>
<td>None</td>
</tr>
</tbody>
</table>

## 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.

### 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 B.A. Chemistry major mathematics requirement (see next column).

### UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the B.A. Chemistry major requirements (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 or 1307; SPCH 2341

### UNT Core: Language, Philosophy and Culture

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

### 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; SOCW 2361; SPCH 1318; TECA 1354

### UNT Core: Component Area Option Category I

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

### UNT Core: Component Area Option Category II

This requirement will be met by fulfilling the B.A. Chemistry major requirements (see column below).

### College of Arts & Sciences 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. Chemistry: Other Course Requirements

TCCNS Options:

- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and program requirements)
- MATH 2314 or 2414
- PHYS 1401 or 1301/1101 and PHYS 1402 or 1302/1102, or PHYS 2425 or 2325/2125 and PHYS 2426 or 2326/2126
- One course from the Natural/Life Sciences
  - ANTH 2401
  - BIOL 1406 or 1106/1306*  
  - BIO1 1407 or 1107/1307*  
  - BIO1 1408 or 1108/1308  
  - BIO1 1409 or 1109/1309  
  - BIO1 1424 or 1124/1324  
  - BIO1 2401 or 2101/2301  
  - BIO1 2402 or 2102/2302  
  - ENVR 1401 or 1101/1301  
  - ENVR 1402 or 1102/1302  
  - GEOL 1401 or 1101/1301  
  - GEOL 1402 or 1102/1302  
  - GEOL 1403 or 1103/1303  
  - GEOL 1404 or 1104/1304  
  - GEOL 1405 or 1105/1305  
  - GEOL 1445 or 1145/1345

Courses listed above are TCCNS options and do not include all courses required for the UNT Chemistry Major.

* approved substitution

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

Last Revised: September 20, 2016
**B.A. Chemistry: Major requirements**

TCCNS Options:
- CHEM 1411 or 1311/1111
- CHEM 1412 or 1312/1112
- CHEM 2423 or 2123/2323 (approved substitution)
- CHEM 2425 or 2125/2325 (approved substitution)

**B.A. Chemistry: Advanced Coursework**

No TCCNS options available

**Teach North Texas Program: Minor requirements**

Students must complete the required 22 hours for the minor in mathematics and science secondary teaching and meet all GPA requirements to apply for state certification. Students should contact the Teach North Texas program for more information on enrolling in the certification courses. No TCCNS options available for Teach North Texas requirements.

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 Major 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: Chemistry (7-12)

Additional requirements for Teacher Certification in Chemistry 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 Arts & 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 and Sciences 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 Arts and Sciences Student Advising website at www.cas.unt.edu/advising.