# College of Science
## B.A. Chemistry
### 2017-2018 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](http://registrar.unt.edu/transfer-guides) 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 a 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><strong>FRESHMAN</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
<td>TECM 2700 (recommended) or ENGL 1320</td>
</tr>
<tr>
<td>CHEM 1410/1430 or CHEM 1412#/1430 or CHEM 1413#/1430</td>
<td>CHEM 1411 or 1311/1111</td>
<td>CHEM 1420/1440 or CHEM 1422#/1440 or CHEM 1423#/1440</td>
</tr>
<tr>
<td>Foreign Language 2040</td>
<td>Foreign Language 2311</td>
<td>Foreign Language 2050</td>
</tr>
<tr>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
<td>UNT Core: CAO Category I</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOPHOMORE</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>CHEM 2370/3210#</td>
<td>CHEM 2423 or 2123/2123</td>
<td>CHEM 2380/3220#</td>
</tr>
<tr>
<td>UNT Core: American History</td>
<td>See list of approved courses</td>
<td>UNT Core: American History</td>
</tr>
<tr>
<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>
<td>PHYS 1420/1440 or PHYS 1520#/1540# or PHYS 2220/2240</td>
</tr>
<tr>
<td>UNT Core: Language, Philosophy and Culture</td>
<td>See list of approved courses</td>
<td>UNT Core: Creative Arts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective</td>
</tr>
</tbody>
</table>

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<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JUNIOR</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>CHEM 3451/3452</td>
<td>None</td>
<td>CHEM (advanced)</td>
</tr>
<tr>
<td>PSCI 2305</td>
<td>GOVT 2305</td>
<td>PSCI 2306</td>
</tr>
<tr>
<td>CHEM (advanced)</td>
<td>None</td>
<td>Elective (advanced)</td>
</tr>
<tr>
<td>Elective (advanced)</td>
<td>None</td>
<td>Elective (advanced)</td>
</tr>
<tr>
<td>UNT Core: Social &amp; Behavioral Sciences</td>
<td>See list of approved courses</td>
<td>Elective (advanced)</td>
</tr>
</tbody>
</table>

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<tr>
<th>Year</th>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>SENIOR</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>Elective</td>
<td>Consult UNT advisor</td>
<td>Elective</td>
</tr>
<tr>
<td>CHEM (4000 level)</td>
<td>None</td>
<td>Elective (advanced)</td>
</tr>
<tr>
<td>Elective (advanced)</td>
<td>None</td>
<td>Elective (advanced)</td>
</tr>
<tr>
<td>COS Core: Natural/Life Sciences</td>
<td>See list of approved courses</td>
<td>Elective (advanced)</td>
</tr>
<tr>
<td>Elective (Advanced)</td>
<td>Consult UNT advisor</td>
<td>Elective (advanced)</td>
</tr>
</tbody>
</table>

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

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.

**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 column).

**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**
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; CRJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1394

**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 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. Chemistry: Major requirements**
- CHEM 1411 or 1311/1111
- CHEM 1412 or 1312/1112
- CHEM 2423 or 2123/2323 (approved substitution)
- CHEM 2425 or 2125/2325 (approved substitution)

CHEM 1411 and 1412 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 B.A. Chemistry major.

**B.A. Chemistry: Other Course Requirements**
- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and major requirements)
- MATH 2314 or 2414 (fulfills both university core CAO Category II and major requirements)
- 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*
  - BIOL 1407 or 1107/1307*
  - BIOL 1408 or 1108/1308
  - BIOL 1409 or 1109/1309
  - BIOL 1424 or 1124/1324
  - BIOL 2401 or 2101/2301
  - BIOL 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

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

Last Revised: April 26, 2017
**College of Science**

**B.A. Chemistry**

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### Teacher Certification Option

The College of Science encourages students to explore teaching at the secondary level as a career option. A higher GPA may be required for the certification option. For more information contact your advisor.

### 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, see the College of Science Student Advising website: [www.cos.unt.edu/advising](http://www.cos.unt.edu/advising)

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Last Revised: April 26, 2017