### College of Science

**B.S. Chemistry, Secondary Education Certification in Chemistry Grades (7-12)**

**2018-2019 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.

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>
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</thead>
<tbody>
<tr>
<td><strong>FRESHMAN</strong></td>
<td></td>
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<tr>
<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td></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</td>
</tr>
<tr>
<td></td>
<td>TTX 1100* (1 hr)</td>
<td>None</td>
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<tr>
<td></td>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
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<tr>
<td></td>
<td>UNT Core: Component Area Option</td>
<td>See list of approved courses</td>
</tr>
</tbody>
</table>

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

| **Sophomore** | | |
| | UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| | CHEM 2370/3210# | CHEM 2423 or 2123/2323 | CHEM 2380/3220# | CHEM 2425 or 2125/2325 |
| | UNT Core: American History | See list of approved courses | UNT Core: American History | See list of approved courses |
| | PHIL 2600 (counts as Language, Philosophy & Culture) | None | MATH 2700 | MATH 2318 or 2418 |
| | MATH 2730 | MATH 2315 or 2415 | PHYS 2220/2240 | PHYS 2426 or 2326/2126 |
| | PHYS 1710/1730 | PHYS 2425 or 2325/2125 | PSCI 2305 | GOVT 2305 |

| **Junior** | | |
| | UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| | CHEM 3451/3452 | None | CHEM 3520/3240 | None |
| | EDCI 3500* | None | PSCI 2306 | GOVT 2306 |
| | CHEM 3510/3230 | CHEM 4700 | CHEM 4631/4632 | None |
| | UNT Core: Social & Behavioral Sciences | See list of approved courses | EDCI 4000* | |

| **Senior** | | |
| | UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| | CHEM 4610 | None | EDSE 4608* (Student Teaching I) | |
| | CHEM (4000 level) | | CHEM 4620 | |
| | BIOC 4540 | | EDSE 4618* (Student Teaching II) | |
| | EDCI 4500* | | EDSE 4628* (Student Teaching Seminar) (1 hr) | |

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

Last Revised: May 7, 2018
College of Science

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Students may not declare a major within the College of Science until they have completed MATH 1100 or have demonstrated proficiency through a math placement exam. Applicants who do not meet the math proficiency requirement will be provisionally admitted as Pre-College of Science (PCOS). PCOS students may visit the College of Science advising office for assistance.

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.

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.

UNT Core: Mathematics

This requirement will be met by fulfilling the B.S. Chemistry major mathematics requirement (see next column).

UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the B.S. 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

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; CRJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

UNT Core: Component Area Option

Complete two courses from Component Area Option A OR one course from Component Area Option A AND one course from Component Area Option B.

Option A: ANTH 2346, 2351, or 2401; ARTS 1301 or 1304; ASTR 1403 or 1404; BIOL 1408 or 1413, or 2406; COMM 1307; CRJ 1301; DRAM 1310; ECON 2301 or 2302; ENGL 1301, 1302, 2311, 2332, or 2333; HECO 1322; GEOG 1303; GEOL 1401 or 1403; HIS 1301, 1302, 2321, or 2322; MATH 1316, 1324, 1325 or 1425, 1332, 1342 or 1432 or 2442, 1350, 2305 or 2405, 2312 or 2412, 2313 or 2413 or 2513; MUSI 1306 or 1307; PHIL 1301, 1304, 2303, 2306, or 2316; PHYS 1403, 1404, 1410, or 1415; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1315, 1318 or 2341; TECA 1354

Option B: SPCH 1311; TECA 1303

B.S. Chemistry: Major requirements

- CHEM 1411 or 1111/1111
- CHEM 1412 or 1112/1112
- CHEM 2423 or 2123/2233 (approved substitution)
- CHEM 2425 or 2125/2235 (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.S. Chemistry major.

B. S. Chemistry: Other Course Requirements

- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and major requirements)
- MATH 2314 or 2414
- MATH 2315 or 2415
- MATH 2318 or 2418
- 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 Chemistry Major.

B.S. 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 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  TEES: Pedagogy & Professional Responsibilities (EC-12)
Exam #2  TEES: 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.

Courses 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 Science requirements.

A GPA of 2.5 on all advanced courses attempted in science and engineering courses (biochemistry, biology, chemistry, computer science, engineering, mathematics, physics) is required.

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.