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>TCCNS Option</th>
<th>Spring Semester</th>
<th>TCCNS Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
<td>ENGL 1320 or TECM 2700 (recommended)</td>
<td>ENGL 1302 or 2311</td>
</tr>
<tr>
<td></td>
<td>CHEM 1410/1430</td>
<td>CHEM 1411 or 1311/1111</td>
<td>CHEM 1420/1440 or CHEM 1422#/1440 or CHEM 1423#/1440</td>
<td>CHEM 1412 or 1312/1112</td>
</tr>
<tr>
<td></td>
<td>TNTX 1100* (1 hr)</td>
<td>None</td>
<td>TNTX 1200* (2 hrs)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
<td>MATH 1720</td>
<td>MATH 2314 or 2414</td>
</tr>
<tr>
<td></td>
<td>UNT Core: CAO Category I</td>
<td>See list of approved courses</td>
<td>UNT Core: Creative Arts</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 | 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    | CHEM 3451/3452 | None | CHEM 3520/3240 | CHEM 4610 |
|           | EDCI 3500*     | None | PHYS 3010/3030 | EDSE 4608* (Student Teaching I) |
|           | CHEM 3510/3230 | None | CHEM 4700 | CHEM 4631/4632 |
|           | UNT Core: Social & Behavioral Sciences | See list of approved courses | CHEM 4631/4632 | None |
|           | PSCI 2306     | GOVT 2306 | EDCI 4000* | None |

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

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

Last Revised: April 26, 2017
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 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.S. Chemistry major requirements (see column below).

**B.S. Chemistry: Major requirements**

- CHEM 1411 or 1111/1131
- CHEM 1412 or 1112/1132
- 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.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 (fulfills both university core CAO Category II and major requirements)
- 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.
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 Science degree as specified in the [General University Requirements](http://registrar.unt.edu/transfer-guides) section of the UNT catalog and the College of Sciences 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](http://registrar.unt.edu/transfer-guides) 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://www.cos.unt.edu/advising).

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**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 & Culture core and the Teach North Texas requirements.

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**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: Physical Science (6-12)

Additional requirements for Teacher Certification in Physical Science include a 2.5 overall GPA (including all transferred courses), a 2.5 UNT GPA and a 2.5 major GPA.

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**Special Notes**

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