**UNT Core: English Composition & Rhetoric**

This requirement will be met by fulfilling the B.S. Biochemistry English Composition & Rhetoric requirement (see next page).

**UNT Core: Mathematics**

This requirement will be met by fulfilling the B.A. Biochemistry major mathematics requirement (see next page).

**UNT Core: Natural Science**

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

**UNT Core: U.S. History**

Two courses chosen from: HIST 1301, 1302, 2301

**UNT Core: Political Science**

Two courses chosen from one of the following combinations:

- GOVT 2301 and 2302
- GOVT 2305 and 2306
- GOVT 2301 and 2305
- GOVT 2301 and 2306
- GOVT 2302 and 2306

**UNT Core: Visual & Performing Arts**

One course chosen from: ARTS 1301, 1303, or 1304; DRAM 1310; MUSI 1306 or 1307; SPCH 2341

**UNT Core: Humanities**

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; HUMA 2323; PSYC 2301; SOCI 1301; SPCH 1318; TECA 1354

**UNT Core: Discovery**

One course chosen from: ARTS 1301; BIOL/HECO 1322; GEOG 1303; HIST 2321 or 2322; PHIL 1301, 2303, or 2306; SPCH 1311 or 1315; TECA 1303

**UNT Core: Capstone**

This requirement will be met by fulfilling teacher certification requirements.

---

**Biochemistry: English Composition and Rhetoric**

TCCNS Options:

- ENGL 1301 and 2311

A grade of 'C' or better is required on courses applied toward this requirement.

**AST 2311 is required for Biochemistry majors however, students who have completed ENGL 1302 prior to attending UNT may substitute this course for ENGL 2311**

---

http://essc.unt.edu/registrar/articulation/
**Biochemistry: Major Requirements**

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

CHEM 1411 and 1412 fulfill both Natural Science core and major requirements.

*Courses listed above are TCCNS options and do not include all courses required for the UNT Biochemistry major.*

**Biochemistry: Advanced Coursework**

No TCCNS options available

**Biochemistry: Other Course Requirements**

TCCNS Options:

- ENGL 2311
- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and program requirements)
- PHYS 2425 or 2125/2325 (approved substitution)
- PHYS 2426 or 2126/2326 (approved substitution)
- A minimum 2.5 grade point average must be maintained on all advanced courses in the division of sciences. A minimum 2.5 grade point average is required for graduation.
- Students in the department whose UNT or overall grade point average drop below 2.5 for two consecutive semesters will be removed from the program.
- Only two attempts will be allowed for each biology and biochemistry course in this degree.
- A minimum UNT 2.5 grade point average and an overall 2.5 grade point average are required to enter the department as a pre-major or major (beginning freshmen are exempt).

**Special Notes**

**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 (8-12)

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.

**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.

**Teach North Texas Program: Minor requirements**

Students must complete the required 21 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 2.5 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 Humanities core and Major requirements.

**Teach North Texas Program: Minor requirements**

Students must complete the required 21 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 2.5 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 Humanities core and Major requirements.

**Teach North Texas Program: Minor requirements**

Students must complete the required 21 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 2.5 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 Humanities core and Major requirements.
## B.A. Biochemistry, Secondary Education Certification in Physical Science Grades (8-12)

### 2012-2013 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.

### Yearly Plans

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman</strong></td>
<td><strong>UNT Requirement</strong></td>
<td><strong>TCCNS Option</strong></td>
</tr>
<tr>
<td></td>
<td>UNT Core: Social &amp; Behavioral Sciences</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>CHEM 1410/CHEM 1430</td>
<td>CHEM 1411 or 1111/1311</td>
</tr>
<tr>
<td></td>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
</tr>
<tr>
<td></td>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
</tr>
<tr>
<td></td>
<td></td>
<td></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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sophomore</strong></td>
<td><strong>UNT Requirement</strong></td>
<td><strong>TCCNS Option</strong></td>
</tr>
<tr>
<td></td>
<td>Foreign Language LANG 2040</td>
<td>Foreign Language LANG 2311</td>
</tr>
<tr>
<td></td>
<td>CHEM 2370/3210#</td>
<td>CHEM 2423 or 2123/2323</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Political Science</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>UNT Core: U.S. History</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>PHYS 1510#/1530#</td>
<td>PHYS 2425 or 2125/2325</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Junior</strong></td>
<td><strong>UNT Requirement</strong></td>
<td><strong>TCCNS Option</strong></td>
</tr>
<tr>
<td></td>
<td>BIOC 3621/3622</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>EDSE 3500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHEM 3451/3452</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>Consult UNT advisor</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Visual &amp; Performing Arts</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Senior</strong></td>
<td><strong>UNT Requirement</strong></td>
<td><strong>TCCNS Option</strong></td>
</tr>
<tr>
<td></td>
<td>EDSE 4500*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>PHYS 3010/3030</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective (advanced)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHEM 4700</td>
<td></td>
</tr>
</tbody>
</table>

---

http://essc.unt.edu/registrar/articulation/  

Last Revised: July 25, 2012