### College of Science

**B.S. Biochemistry, Secondary Education Certification in Physical Science Grades (6-12)**

**2019-2020 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](mailto:registrar.unt.edu) 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>TNTX 1100* (1 hr)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>CHEM 1410/1430</td>
<td>CHEM 1411 or 1311/1111</td>
</tr>
<tr>
<td></td>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
</tr>
<tr>
<td></td>
<td>MATH 1650</td>
<td>MATH 2312 or 2412</td>
</tr>
<tr>
<td></td>
<td>UNT Core: American History</td>
<td><a href="mailto:registrar.unt.edu">See list of approved courses</a></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>SOPHOMORE</td>
<td>MATH 1720</td>
<td>MATH 2314 or 2414</td>
</tr>
<tr>
<td></td>
<td>CHEM 2370/3210#</td>
<td>CHEM 2423 or 2323/2123</td>
</tr>
<tr>
<td></td>
<td>PSCI 2305</td>
<td>GOVT 2305</td>
</tr>
<tr>
<td></td>
<td>BIOL 1710/1760#</td>
<td>BIOL 1406 or 1306/1106</td>
</tr>
<tr>
<td></td>
<td>PHYS 1510#/1530# or PHYS 1710/1730</td>
<td>PHYS 2425 or 2325/2125</td>
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<table>
<thead>
<tr>
<th>JUNIOR</th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>CHEM 3510</td>
<td>None</td>
<td>BIOC 4550</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>EDCI 3500*</td>
<td>None</td>
<td>CHEM 3520</td>
<td>None</td>
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<tr>
<td></td>
<td>CHEM 3451/3452</td>
<td>None</td>
<td>EDCI 4000*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>BIOC 4540/4560</td>
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<td>BIOC 4570/4580</td>
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<tr>
<td></td>
<td>BIOL 3451/3452</td>
<td>None</td>
<td>UNT Core: Social &amp; Behavioral Sciences</td>
<td><a href="mailto:registrar.unt.edu">See list of approved courses</a></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>SENIOR</th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
<th>UNT Requirement</th>
<th>TCCNS Option</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDCI 4500*</td>
<td>None</td>
<td>EDSE 4608* (Student Teaching I)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>BIOL 3510/3520</td>
<td>None</td>
<td>EDSE 4618* (Student Teaching II)</td>
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<td></td>
<td>PHYS 3010/3030</td>
<td>None</td>
<td>EDSE 4628* (Student Teaching Seminar)(1 hr)</td>
<td>None</td>
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<tr>
<td></td>
<td>CHEM 4700</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Advanced BIOL w/ Lab</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**UNT Core: Communication**
ENGL 1301 and 2311
A grade of ‘C’ or better is required on courses applied toward this requirement.

*ENGL 2311 is a required course for the B.S. in Biochemistry (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; SPCCH 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; SPCCH 1318; TECA 1354

**UNT Core: Component Area Option**
This requirement will be met by fulfilling the B.S. Biochemistry major requirements (see next column).

**Biochemistry: Foundation Requirements**
Students must have a grade of C or better and a minimum 2.5 grade point average in all Foundation courses before enrolling in advanced courses required for the major.

- BIOL 1406 or 1306/1106
- BIOL 1407 or 1307/1107 or 2421 or 2321/2121
- CHEM 1411 or 1311/1111
- CHEM 1412 or 1312/1112
- CHEM 2423 or 2323/2123 (approved substitution)
- MATH 2312 or 2412

BIOL 1406, BIOL 1407, CHEM 1411 and 1412 fulfill either Life & Physical Sciences and the Component Area Option core requirements.

MATH 2312 also fulfills the Mathematics core requirement.

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

**Biochemistry: Major Requirements**

- CHEM 2425 or 2325/2125 (approved substitution)

**Advanced Biochemistry Courses**
No TCCNS options available

*Courses listed above are TCCNS options and do not include all courses required for the UNT Biochemistry major.*
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Biochemistry: Minor in Biology (Required)

Minors of 20 hours in Biology is required, which includes completion of the BIOL courses in the Foundation as well as other courses that do not have TCCNS options.

A grade of 'C' or better is required on all courses.

BIOL 1406 also fulfills both Life & Physical Sciences core and minor requirements.

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

Biochemistry: Additional Course Requirements

- ENGL 2311 (also fulfills part of the Communications core requirement) (C or better)
- MATH 2313 or 2413 or 2513 (also fulfills the Mathematics core requirement)
- MATH 2314 or 2414
- PHYS 2425 or 2325/2125 (approved substitution)
- PHYS 2426 or 2326/2126 (approved substitution)
- A minimum 2.5 grade point average and a C or better in Foundation courses, a C or better in all advanced courses counting toward major requirements, and a minimum 2.0 UNT and overall (UNT and transfer) grade point average is required for graduation.
- Students in the department whose Foundation or overall grade point average drop below the minimum GPA 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.

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, is required for the Teach North Texas Program and will also fulfill the Language, Philosophy and Culture core requirement.

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.

Special Notes

Hours Required and General/College Requirements: A minimum of 120 semester hours, of which 36 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.

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.