### College of Science

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

**2021-2022 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 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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<tbody>
<tr>
<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td><strong>FRESHMAN</strong></td>
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<tr>
<td></td>
<td>BIOL 1710/1760#</td>
<td>BIOL 1406 or 1306/1106</td>
</tr>
<tr>
<td></td>
<td>TNTX 1100*</td>
<td>None</td>
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<tr>
<td></td>
<td>CHEM 1410/1430</td>
<td>CHEM 1411 or 1311/1111</td>
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<tr>
<td></td>
<td>MATH 1650</td>
<td>MATH 2312 or 2412</td>
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<tr>
<td></td>
<td>UNT Core: Social and Behavioral Sciences</td>
<td><a href="http://registrar.unt.edu/transfer-guides">See list of approved courses</a></td>
</tr>
<tr>
<td></td>
<td>* Students must be admitted to Teach North Texas Program prior to enrolling in certain Education courses.</td>
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<tr>
<th>Year</th>
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<tbody>
<tr>
<td></td>
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<td>TCCNS Option</td>
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<tr>
<td><strong>SOPHOMORE</strong></td>
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<tr>
<td></td>
<td>CHEM 2370/3210#</td>
<td>CHEM 2423 or 2323/2123</td>
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<td></td>
<td>TECM 2700</td>
<td>ENGL 2311</td>
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<tr>
<td></td>
<td>PSCI 2305</td>
<td>GOVT 2305</td>
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<td></td>
<td>UNT Core: American History</td>
<td><a href="http://registrar.unt.edu/transfer-guides">See list of approved courses</a></td>
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<tr>
<td></td>
<td>PHYS 1510#/1530#</td>
<td>PHYS 2425 or 2325/2125</td>
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<tr>
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<tr>
<td><strong>JUNIOR</strong></td>
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<tr>
<td></td>
<td>BIOC 3621/3622</td>
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<tr>
<td></td>
<td>EDCI 3500*</td>
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<tr>
<td></td>
<td>CHEM 3451/3452</td>
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<tr>
<td></td>
<td>UNT Core: American History</td>
<td><a href="http://registrar.unt.edu/transfer-guides">See list of approved courses</a></td>
</tr>
<tr>
<td></td>
<td>UNT Core: Creative Arts</td>
<td><a href="http://registrar.unt.edu/transfer-guides">See list of approved courses</a></td>
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<tbody>
<tr>
<td><strong>SENIOR</strong></td>
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<tr>
<td></td>
<td>EDCI 4500*</td>
<td>None</td>
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<tr>
<td></td>
<td>PHYS 3010/3030</td>
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<tr>
<td></td>
<td>Advanced BIOL Elective w/Lab</td>
<td>None</td>
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<td></td>
<td>CHEM 4700</td>
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[http://registrar.unt.edu/transfer-guides](http://registrar.unt.edu/transfer-guides)  
Last Revised: September 22, 2021
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2021-2022 Texas Common Course Numbering System Transfer Guide

Students may not declare a major within the College of Science until they have completed MATH 1100 (MATH 1314 or 1414), or MATH 1180 (MATH 1324) with a 'C' or better, 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 Center for assistance.

Courses Recommended for Transfer
The UNT Core requirements are shown with Texas Common Course Numbering System options 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 2311
A grade of 'C' or better is required on courses applied toward this requirement.
ENGL 2311 is a required course for the B.A. in Biochemistry (see next page).

UNT Core: Mathematics
This requirement will be met by fulfilling the B.A. Biochemistry major mathematics requirement (see next column).

UNT Core: Life & Physical Sciences
This requirement will be met by fulfilling the B.A. Biochemistry 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 or 1307; SPCH 2341

UNT Core: Language, Philosophy and Culture
One course chosen from: ARTS 1303; ENGL 2321, 2326, 2331, 2332, 2333, 2341, or 2351; 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; CRIJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301 or 2330; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

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

College of Science Core: Breadth Requirement
Students pursuing the Bachelor of Arts must complete four classes (minimum 3 hours each) from classes outside of the College of Science. These classes may not be simultaneously applied to University Core Curriculum requirements.
This requirement will be deemed complete for Bachelor of Arts students that complete the Teach North Texas program.

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 CHEM 1412 also fulfill the 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.A. 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 B.A. Biochemistry major.

http://registrar.unt.edu/transfer-guides
Last Revised: September 22, 2021
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 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, visit the College of Science Advising Center website at www.cos.unt.edu/advising.

Biochemistry: Additional Course Requirements

• ENGL 2311 (also fulfills part of the Communication core requirement) (C or better)
• MATH 2313 or 2413 or 2513
• 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.

Biochemistry: Minor in Biology (Required)

Minor 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.

• BIOL 1406 or 1306/1106
• BIOL 1407 or 1307/1107 or 2421 or 2321/2121
A grade of C or better is required on all courses.
BIOL 1406 and 1407 or 2421 also fulfill minor requirements.
Courses listed above are TCCNS options and do not include all courses required for the UNT Biology minor.

Teach North Texas Program: Minor (Required)

Students in this degree plan must go through the Teach North Texas Program, which requires 22 hours for a minor in Mathematics and Science Secondary Teaching. Student must complete this 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 Mathematics and Science Secondary Teaching minor, see current UNT Undergraduate Catalog for all minor requirements.

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

Biochemistry: Minor in Biology (Required)