College of Science  
**B.S. Biochemistry**  
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 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>
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<tr>
<td>BIOL 1710/1760#</td>
<td>BIOL 1406 or 1306/1106</td>
<td>BIOL 1720 or BIOL 2041/2042</td>
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<tr>
<td>CHEM 1410/1430</td>
<td>CHEM 1411 or 1311/1111</td>
<td>CHEM 1420/1440</td>
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<tr>
<td>MATH 1650</td>
<td>MATH 2312 or 2412</td>
<td>MATH 1710</td>
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<tr>
<td>SOPHOMORE</td>
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<tr>
<td>MATH 1720</td>
<td>MATH 2314 or 2414</td>
<td>Elective</td>
</tr>
<tr>
<td>CHEM 2370/3210#</td>
<td>CHEM 2423 or 2323/2123</td>
<td>CHEM 2380/3220#</td>
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<td>PHYS 1510#/1530#</td>
<td>PHYS 2425 or 2325/2125</td>
<td>PHYS 1520#/PHYS 1540#</td>
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<tr>
<td>TECM 2700</td>
<td>ENGL 2311</td>
<td>UNT Core: Language, Philosophy and Culture</td>
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<tr>
<td>JUNIOR</td>
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<tr>
<td>Elective</td>
<td>Consult UNT advisor</td>
<td>BIOC 4550</td>
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<tr>
<td>BIOI 3451/3452</td>
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<td>CHEM 3451/3452</td>
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<td>BIOI 4540/4560</td>
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<tr>
<td>UNT Core: American History</td>
<td>See list of approved courses</td>
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<tr>
<td>SENIOR</td>
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<tr>
<td>BIOI 3510/3520</td>
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<td>BIOC 4570/BIOC 4580</td>
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<td>CHEM 3510</td>
<td>Advanced BIOL w/ Lab</td>
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<tr>
<td>Elective</td>
<td>Consult UNT advisor</td>
<td>CHEM 3520</td>
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<tr>
<td>UNT Core: Social and Behavioral Science</td>
<td>See list of approved courses</td>
<td>Elective</td>
</tr>
<tr>
<td>TECM 2305</td>
<td>GOVT 2305</td>
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</table>
Courses Recommended for Transfer

The UNT Core 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 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: Mathematics**

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

**UNT Core: Life & Physical Sciences**

This requirement will be met by fulfilling the B.S. 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; SPCH 2341

**UNT Core: Language, Philosophy and Culture**

One course chosen from: ARTS 1303; ENGL 2332 or 2333; 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; CRJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

**UNT Core: Component Area Option**

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

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**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

**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.S. Biochemistry major.*
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.

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 (fulfills both mathematics core and program requirements) (C or better)
- MATH 2314 or 2414 (C or better)
- PHYS 2425 or PHYS 2325/2125 (approved substitution)
- PHYS 2426 or PHYS 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.

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.