### College of Science
#### B.A. Biochemistry
#### 2017-2018 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><strong>FRESHMAN</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>BIOL 1710/BIOL 1760#</td>
<td>BIOL 1406 or 1106/1306#</td>
<td>BIOL 1720 or BIOL 2041/2042</td>
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<tr>
<td>CHEM 1410/Chem 1430</td>
<td>CHEM 1411 or 1111/1311</td>
<td>CHEM 1420/CHEM 1440</td>
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<tr>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
<td>TECM 2700</td>
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<tr>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
<td>UNT Core: CAO Category I</td>
</tr>
</tbody>
</table>

* If BIOL 1106 is not completed prior to transfer you will be required to take BIOL 1760 at UNT.

** If you choose BIOL 1307/1107 and BIOL 1107 is not completed prior to transfer you will be required to take BIOL 1760 at UNT.

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
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<tr>
<td><strong>SOPHOMORE</strong></td>
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<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
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<td>Foreign Language LANG 2040</td>
<td>Foreign Language LANG 2311</td>
<td>Foreign Language LANG 2050</td>
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<td>CHEM 2370/3210#</td>
<td>CHEM 2423 or 2123/2323</td>
<td>CHEM 2380/3220#</td>
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<tr>
<td>PSCI 2305</td>
<td>GOVT 2305</td>
<td>PSCI 2306</td>
</tr>
<tr>
<td>PHYS 1510#/1530#</td>
<td>PHYS 2425 or 2325/2125</td>
<td>UNT Core: Language, Philosophy and Culture</td>
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<thead>
<tr>
<th>Year</th>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>JUNIOR</strong></td>
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<td>BIOC 3621/3622</td>
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<td>BIOC 3510/3520</td>
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<td>CHEM 3451/3452</td>
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<td>CHEM 3530</td>
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<tr>
<td>UNT Core: American History</td>
<td><a href="#">See list of approved courses</a></td>
<td>UNT Core: American History</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Creative Arts</td>
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<tr>
<th>Year</th>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>SENIOR</strong></td>
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</tr>
<tr>
<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td>BIOL Elective (Advanced, with laboratory, see major requirements)</td>
<td>None</td>
<td>BIOL Elective (advanced, with laboratory; see major requirements)</td>
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<tr>
<td>Elective (Advanced)</td>
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<td>Elective (Advanced)</td>
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<tr>
<td>Elective (Advanced)</td>
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<td>Elective (Advanced)</td>
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<tr>
<td>UNT Core: Social and Behavioral Sciences</td>
<td><a href="#">See list of approved courses</a></td>
<td>Elective (Advanced)</td>
</tr>
<tr>
<td></td>
<td>Consult UNT advisor</td>
<td>Elective</td>
</tr>
</tbody>
</table>

[http://registrar.unt.edu/transfer-guides](http://registrar.unt.edu/transfer-guides)

Last Revised: April 26, 2017
# College of Science

## B.A. Biochemistry

### 2017-2018 Texas Common Course Numbering System Transfer Guide

The College of Science expects students to have completed the Texas State recommended high school program and be ready to enroll in Language 2040 (TCCNS: Language 2311). If you are not prepared for this level, the necessary prerequisites will either replace electives or increase the hours required for this degree.

### 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

This requirement will be met by fulfilling the B.A. Biochemistry Communication requirement (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: 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; SPCH 1318; TECA 1354

#### UNT Core: Mathematics

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

#### 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 Biology minor requirements (see next page).

#### UNT Core: Life & Physical Sciences

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

#### UNT Core: Component Area Option Category I

Any foreign language 2311 and 2312.

Courses must be taken in the same language.

#### 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: 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; SPCH 1318; TECA 1354

#### College of Science Core: Foreign Language

Any foreign language 2311 and 2312.

Courses must be taken in the same language.

#### 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: 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; SPCH 1318; TECA 1354

#### UNT Core: Component Area Option Category II

This requirement will be met by fulfilling the Biology minor requirements (see next page).

#### UNT Core: Life & Physical Sciences

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

#### 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 Biology minor requirements (see next page).

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

One course chosen from: ENGL 2322 or 2333; HIST 2321 or 2322; PHIL 1301, 1304, 2303, 2306, or 2316

#### College of Science Core: Foreign Language

Any foreign language 2311 and 2312.

Courses must be taken in the same language.

#### 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 Biology minor requirements (see next page).

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

One course chosen from: ENGL 2322 or 2333; HIST 2321 or 2322; PHIL 1301, 1304, 2303, 2306, or 2316

#### 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 Biology minor 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; SPCH 1318; TECA 1354

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

One course chosen from: ENGL 2322 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; CRIJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

#### College of Science Core: Foreign Language

Any foreign language 2311 and 2312.

Courses must be taken in the same language.

#### 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 Biology minor requirements (see next page).

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

One course chosen from: ENGL 2322 or 2333; HIST 2321 or 2322; PHIL 1301, 1304, 2303, 2306, or 2316

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Any foreign language 2311 and 2312.

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One course chosen from: ANTH 2346 or 2351; COMM 1307; CRIJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

#### Biochemistry: Communication

ENGL 1301 and 2311

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

**ENGL 2311 is required for Biochemistry majors**

#### Biochemistry: Major Requirements

- CHEM 1411 or 1311/1111 (C or better)
- CHEM 1412 or 1312/1112 (C or better)
- CHEM 2423 or 2323/2123 (approved substitution)(C or better)
- CHEM 2425 or 2325/2125 (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 Biochemistry major.**

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

Last Revised: April 26, 2017
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 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 Student Advising website at www.cos.unt.edu/advising.

Biochemistry: Advanced Coursework
No TCCNS options available

Biochemistry: Minor in Biology (Required)
Minor of 20 hours in Biology is required.

- BIOL 1406 or 1306/1106* (also fulfills CAO Category II requirements)
- BIOL 1407 or 1307/1107** or BIOL 2421 or BIOL 2321/2121

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

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

*If BIOL 1106 is not completed prior to transfer you will be required to take BIOL 1760 at UNT.

**If you choose BIOL 1307/1107 and BIOL 1107 is not completed prior to transfer you will be required to take BIOL 1760 at UNT.

Biochemistry: Other Course Requirements

- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and program requirements)(C or better)
- PHYS 2425 or 2325/2125 (approved substitution)
- PHYS 2426 or 2326/2126 (approved substitution)
- A minimum 2.5 grade point average in all science and mathematics courses, a minimum 2.5 grade point average in all advanced courses in the division of sciences, and a minimum 2.0 UNT and overall (UNT and transfer) grade point average is required for graduation.
- Students in the department whose UNT 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.