

# College of Science

## B.S. Biochemistry

### 2018-2019 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.

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
FRESHMAN	BIOL 1710/1760#	BIOL 1406 or 1306/1106*	BIOL 1720 or BIOL 2041/2042	BIOL 1407 or 1307/1107* or BIOL 2321/2121
	CHEM 1410/CHEM 1430	CHEM 1411 or 1311/1111	CHEM 1420/CHEM 1440	CHEM 1412 or 1312/1112
	ENGL 1310	ENGL 1301	TECM 2700	ENGL 2311
	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720	MATH 2314 or 2414
* You will be required to take BIOL 1760 at UNT unless, prior to transfer, you have completed both BIOL 1106 and 1107 OR both BIOL 1406 and 1407.				

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SOPHOMORE	Foreign Language LANG 2040	Foreign Language LANG 2311	Foreign Language LANG 2050	Foreign Language LANG 2312
	CHEM 2370/3210#	CHEM 2423 or 2123/2323	CHEM 2380/3220#	CHEM 2425 or 2125/2325
	PHYS 1510#/1530# or PHYS 1710/1730	PHYS 2125/2325 or PHYS 2425	PHYS 1520#/PHYS 1540# or PHYS 2220/2240	PHYS 2326/2126 or PHYS 2426
	PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
	UNT Core: Component Area Option	<a href="#">See list of approved courses</a>		

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	CHEM 3510	None	BIOC 4570	None
	CHEM 3451/3452		BIOC 4580 (2 hrs)	
	BIOL 3451/3452		CHEM 3520	
	UNT Core: American History	<a href="#">See list of approved courses</a>	UNT Core: American History	<a href="#">See list of approved courses</a>
	UNT Core: Language, Philosophy and Culture	<a href="#">See list of approved courses</a>	UNT Core: Creative Arts	<a href="#">See list of approved courses</a>

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	BIOC 4540/4560	None	BIOC 4550	None
	BIOL 3510/3520		Advanced BIOL w/ Lab	
	Elective	Consult UNT advisor	Elective	Consult UNT advisor
	UNT Core: Social and Behavioral Science	<a href="#">See list of approved courses</a>	UNT Core: Component Area Option	<a href="#">See list of approved courses</a>

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## B.S. Biochemistry

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Students may not declare a major within the College of Science until they have completed MATH 1100 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 office for assistance.

#### 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

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

##### UNT Core: Component Area Option

Complete two courses from Component Area Option A OR one course from Component Area Option A AND one course from Component Area Option B.

##### UNT Core: Mathematics

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

**Option A:** ANTH 2346, 2351, or 2401; ARTS 1301 or 1304; ASTR 1403 or 1404; BIOL 1408 or 1413, or 2406; COMM 1307; CRIJ 1301; DRAM 1310; ECON 2301 or 2302; ENGL 1301, 1302, 2311, 2332, or 2333; HECO 1322; GEOG 1303; GEOL 1401 or 1403; HIST 1301, 1302, 2321, or 2322; MATH 1316, 1324, 1325 or 1425, 1332, 1342 or 1442 or 2342 or 2442, 1350, 2305 or 2405, 2312 or 2412, 2313 or 2413 or 2513; MUSI 1306 or 1307; PHIL 1301, 1304, 2303, 2306, or 2316; PHYS 1403, 1404, 1410, or 1415; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1315, 1318 or 2341; TECA 1354

##### UNT Core: Life & Physical Sciences

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

**Option B:** SPCH 1311; TECA 1303

##### UNT Core: American History

Two courses chosen from: HIST 1301, 1302, 2301

##### College of Science Core: Foreign Language (Option 1)

Any foreign language 2311 and 2312.

##### UNT Core: Government/Political Science

GOVT 2305 and 2306

Courses must be taken in the same language.

##### UNT Core: Creative Arts

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

NOTE: Prerequisites for foreign language 2311 and 2312 courses are 1311 and 1312 or 1411 and 1412 or 1511 and 1512.

Placement exams may be available; see your community college academic advisor for details.

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

One course chosen from: ENGL 2332 or 2333; HIST 2321 or 2322; PHIL 1301, 1304, 2303, 2306, or 2316

##### Biochemistry: Foreign Language (Option 2)

Complete two courses from approved options at UNT. A student who wishes to fulfill the foreign language requirement by this option must first be counseled by an undergraduate advisor of the Department of Biological Sciences at UNT and must obtain written approval of Option II for B.S. Biochemistry major for inclusion in the student's degree plan.

##### 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

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

#### Biochemistry: Advanced Coursework

No TCCNS options available.

#### Biochemistry: Minor in Biology (Required)

Minor of 20 hours in Biology is required.

- BIOL 1406 or 1106/1306\*\*
- BIOL 1407 or 1107/1307\*\* 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.*

**\*\* You will be required to take BIOL 1760 at UNT unless, prior to transfer, you have completed both BIOL 1106 and 1107 OR both BIOL 1406 and 1407.**

#### Biochemistry: Other Course Requirements

- 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 2125/2325 (approved substitution)
- PHYS 2426 or PHYS 2126/2326 (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.

#### 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 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](http://www.cos.unt.edu/advising).