

College of Arts & Sciences

B.S. Biochemistry, Secondary Education Certification in Chemistry Grades (7-12)

2016-2017 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	
FRESHMAN	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	UNT Core: Social & Behavioral Sciences	See list of approved courses	PHIL 2600	None
	TNTX 1100* (1 hr)	None	TNTX 1200* (2 hrs)	
	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	UNT Core: CAO Category I	See list of approved courses
	UNT Core: American History	See list of approved courses	UNT Core: American History	See list of approved courses
* Students must be admitted to Teach North Texas Program prior to enrolling in certain Education courses.				

YEAR	FALL SEMESTER		SPRING SEMESTER	
SOPHOMORE	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	Foreign Language LANG 2040	Foreign Language LANG 2311	Foreign Language LANG 2050	Foreign Language LANG 2312
	CHEM 2370/3210#	CHEM 2423 or 2323/2123	CHEM 2380/3220#	CHEM 2425 or 2325/2125
	MATH 1720	MATH 2314/2414	UNT Core: Government/Political Science	See list of approved courses
	BIOL 1710/1760#	BIOL 1406 or 1306/1106**	BIOL 1720 or BIOL 2041/2042	BIOL 1407 or 1307/1107*** or BIOL 2421 or BIOL 2321/2121
	PHYS 1510/1530 or PHYS 1710/1730	PHYS 2425 or 2325/2125	PHYS 1520/1540 or PHYS 2220/2240	PHYS 2426 or 2326/2126
** 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.				

YEAR	FALL SEMESTER		SPRING SEMESTER	
JUNIOR	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	CHEM 3510	None	BIOC 4550	None
	EDSE 3500		CHEM 3520	
	CHEM 3451/3452		EDSE 4000*	
	BIOC 4540/4560		BIOC 4570	
	UNT Core: Government/Political Science	See list of approved courses	BIOC 4580	See list of approved courses
			UNT Core: Creative Arts	

YEAR	FALL SEMESTER		SPRING SEMESTER	
SENIOR	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
	EDSE 4500*	None	EDSE 4608* (Student Teaching I)	None
	BIOL 3510/3520		EDSE 4618* (Student Teaching II)	
	Advanced BIOL w/ Lab		EDSE 4628* (Student Teaching Seminar) (1 hr)	
	CHEM 4700			
	Advanced BIOL w/ Lab			

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The College of Arts and Sciences 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 Government/Political Science, 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.S. Biochemistry Communication requirement (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: Mathematics

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

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.S. Biochemistry major requirements (see next page).

College of Arts & Sciences Core: Foreign Language (Option 1)

Any foreign language 2311 and 2312.

UNT Core: American History

Two courses chosen from: HIST 1301, 1302, 2301

Courses must be taken in the same language.

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

UNT Core: Government/Political Science

GOVT 2305 and 2306

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

UNT Core: Creative Arts

One course chosen from: ARTS 1301 or 1304; DRAM 1310; MUSI 1306 or 1307; SPCH 2341

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: Language, Philosophy and Culture

This requirement will be met by fulfilling the Teach North Texas requirements (see next page).

Biochemistry: Communication

ENGL 1301 and 2311

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

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

ENGL 2311 is required for Biochemistry majors however, students who have completed ENGL 1302 prior to attending UNT may substitute this course for ENGL 2311

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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 B.S. Biochemistry major.

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, will fulfill both the Language, Philosophy and Culture core and major requirements.

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)
- MATH 2314 or 2414 (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.

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: Chemistry (7-12)

Additional requirements for Teacher Certification in Chemistry 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 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 Arts & Sciences 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 Arts and Sciences 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 Arts and Sciences Student Advising website at www.cas.unt.edu/advising.