

# College of Arts & Sciences

## B.S. Chemistry

### 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	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
FRESHMAN	ENGL 1310	ENGL 1301	TECM 2700 (recommended) or ENGL 1320	ENGL 2311 (recommended) or ENGL 1302
	CHEM 1410/1430 or CHEM 1412#/1430 or CHEM 1413#/1430	CHEM 1411 or 1311/1111	CHEM 1420/1440 or CHEM 1422#/1440 or CHEM 1423#/1440	CHEM 1412 or 1312/1112
	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720	MATH 2314 or 2414
	UNT Core: CAO Category I	<a href="#">See list of approved courses</a>	UNT Core: Social & Behavioral Sciences	<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
SOPHOMORE	CHEM 2370/3210#	CHEM 2423 or 2123/2323	CHEM 2380/3220#	CHEM 2425 or 2125/2325
	UNT Core: American History	See list of approved courses	UNT Core: American History	<a href="#">See list of approved courses</a>
	MATH 2730	MATH 2315 or 2415	PHYS 2220/2240	PHYS 2426 or 2326/2126
	Minor	Consult UNT advisor	UNT Core: Government/Political Science	<a href="#">See list of approved courses</a>
	PHYS 1710/1730	PHYS 2425 or 2325/2125		

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	CHEM 3451/3452	None	CHEM 3520/3240	None
	CHEM 3510/3230		UNT Core: Government/Political Science	<a href="#">See list of approved courses</a>
	MATH 2700	MATH 2318 or 2418	Elective (advanced)	None
	Minor	Consult UNT advisor	UNT Core: Language, Philosophy and Culture	<a href="#">See list of approved courses</a>
			Minor	Consult UNT advisor

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	CHEM 4610	None	CHEM 4620	None
	CHEM (4000 level) or BIOC 4540		CHEM 4631/4632	
	Elective (advanced)		CHEM (4000 level)	
	Elective (advanced)		Minor (advanced)	
	Minor (advanced)		Elective (advanced)	

The College of Arts and Sciences encourages students to explore teaching at the secondary level as a career option. Students seeking secondary teacher certification should contact the Teach North Texas Program in the College of Arts and Sciences.

### 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

ENGL 1301; and ENGL 1302 or 2311

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

#### UNT Core: Mathematics

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

#### UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the B.S. Chemistry 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: 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; CRIJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

#### 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 B.S. Chemistry major requirements (see column below).

#### B.S. Chemistry: Major requirements

- CHEM 1411 or 1111/1311
- CHEM 1412 or 1112/1312
- CHEM 2423 or 2123/2323 (approved substitution)
- 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. Chemistry Major.*

#### B. S. Chemistry: Other Course Requirements

- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and major requirements)
- MATH 2314 or 2414
- MATH 2315 or 2415
- MATH 2318 or 2418
- PHYS 2425 or 2125/2325
- PHYS 2426 or 2126/2326

*Courses listed above are TCCNS options and do not include all courses required for the UNT Chemistry Major.*

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## *B.S. Chemistry*

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#### 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 this catalog and the College of Arts and Sciences requirements (excluding foreign language and natural and life sciences) is required. The laboratory science requirement is satisfied only by physical sciences.

GPA of 2.5 on all advanced courses attempted in science and engineering courses (biochemistry, biology, chemistry, computer science, engineering, mathematics, physics).

**Minor:** At least 18 hours in mathematics, computer science, physics, biology, materials science, or geology (if taken as a laboratory science), of which 6 must be advanced.

**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](http://www.cas.unt.edu/advising).