

# College of Arts & Sciences

## *B.A. Chemistry, Secondary Education Certification in Chemistry Grades (8-12)*



### 2010-2011 Texas Common Course Numbering System Transfer Guide

- 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 in the College of Arts and Sciences.
- 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 3311) or a mathematics course above college algebra. 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

##### UNT Core: English Composition & Rhetoric

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.A. Chemistry major mathematics requirement (see next column).

##### UNT Core: Natural Science

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

##### UNT Core: U.S. History

Two courses chosen from: HIST 1301, 1302, 2301, 2327, 2328, 2381

##### UNT Core: Political Science

Two courses chosen from one of the following combinations:

- GOVT 2301 and 2302
- GOVT 2301 and 2305
- GOVT 2305 and 2306
- GOVT 2301 and 2306
- GOVT 2302 and 2306

##### UNT Core: Visual & Performing Arts

One course chosen from: ARCH 1301, 1302; ARTS 1301 or 1304; COMM 2366; DRAM 1310, 2361, 2362, 2363, 2366, 2367; DANC 2303, 2304; HUMA 1315; MUSI 1306, 1307, 1308, 1309

##### UNT Core: Humanities

One course chosen from: ENGL 2321, 2322, 2323, 2326, 2327, 2328, 2331, 2332, 2333, 2341, 2342, 2343, 2351; HUMA 1301, 1302; PHIL 1301, 2303, 2306, 2316, or 2317

##### UNT Core: Social & Behavioral Sciences

One course chosen from: ANTH 2346, 2351; CRIJ 1301; ECON 1301, 2301, 2302; GEOG 1302; HUMA 2323; PSYC 2301; SOCI 1301, 1306; TECA 1354

##### UNT Core: Understanding the Human Community

This requirement will be met by fulfilling College of Arts and Sciences foreign language requirement (see next column).

##### College of Arts & Sciences Core: Foreign Language

Any foreign language 2311 and 2312.

This also satisfies the university core Understanding the Human Community Requirement.

Latin courses (2311 and 2312) can be used to satisfy this requirement, but will not satisfy the university core Understanding the Human Community requirement. 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. Placement exams may be available; see your community college academic advisor for details.

##### B.A. Chemistry: Major requirements

TCCNS Options:

- CHEM 1411 or 1311/1111
- CHEM 1412 or 1312/1112
- CHEM 2423 or 2123/2323 (approved substitution)
- CHEM 2425 or 2125/2325 (approved substitution)

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

TCCNS Options:

- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and program requirements)
- MATH 2314 or 2414
- PHYS 1401 or 1301/1101 and PHYS 1402 or 1302/1102, or PHYS 2425 or 2325/2125 and PHYS 2426 or 2326/2126
- One course from the Natural/Life Sciences

ANTH 2401	BIOL 2406 or 2106/2306
BIOL 1406 or 1106/1306	BIOL 2420 or 2120/2320
BIOL 1407 or 1107/1307	ENVR 1401 or 1101/1301
BIOL 1408 or 1108/1308	ENVR 1402 or 1102/1302
BIOL 1409 or 1109/1309	GEOG 1401 or 1101/1301
BIOL 1411 or 1111/1311	GEOG 1402 or 1102/1302
BIOL 1413 or 1113/1313	GEOG 1403 or 1103/1303
BIOL 1424 or 1124/1324	GEOG 1404 or 1104/1304
BIOL 2401 or 2101/2301	GEOG 1405 or 1105/1305
BIOL 2402 or 2102/2302	GEOG 1445 or 1145/1345

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

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#### B.A. Chemistry: Advanced Coursework

No TCCNS options available

#### Teach North Texas Program: Minor requirements

Students must complete the required 21 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 2.5 GPA is required on all courses counting toward the Teach North Texas minor, see current UNT Undergraduate Catalog for all minor requirements.

#### Teacher Certification Information

To be certified to teach in the State of Texas, the student must successfully pass the following exams:

- |         |  |
|---------|--|
| Exam #1 | TEExES: Pedagogy & Professional Responsibilities (Grades 8-12) |
| Exam #2 | TEExES: Chemistry  |

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 Arts degree as specified in the "[General University Requirements](#)" in the [Academics](#) section of the UNT catalog and the College of Arts & Sciences requirements.

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

**UNT Core Curriculum:** Complies with the mandates of the 1997 Texas Legislature regarding requirements for state-assisted institutions. 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 & Sciences required curriculum and policies are located in the [Undergraduate Catalog 2010-2011](#).

For additional program and contact information see the College of Arts and Sciences Student Advising website:  
<http://www.cas.unt.edu/advising>

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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 or ENGL 1313#	ENGL 1301	ENGL 1320 or 1323#	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
	TNTX 1100	None	TNTX 1200	None
	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720 Elective	MATH 2314 or 2414 Consult UNT advisor

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: U.S. History	See list of approved courses	UNT Core: U.S. History	See list of approved courses
	PHIL 2600	None	UNT Core: Visual & Performing Arts	See list of approved courses
	UNT Core: Humanities	See list of approved courses	Elective	Consult UNT advisor
	Elective	Consult UNT advisor	Elective	Consult UNT advisor
	Foreign Language 2040	Foreign Language 2311	Foreign Language 2050	Foreign Language 2312

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	CHEM (advanced)	None	CHEM (advanced)	None
	UNT Core: Political Science	See list of approved courses	UNT Core: Political Science	See list of approved courses
	CHEM (advanced)	None	CHEM 4700	None
	PHYS 1410/1430 or PHYS 1510#/1530# or PHYS 1710/1730	PHYS 1401 or 1301/1101 or PHYS 2425 or 2325/2125	PHYS 1420/1440 or PHYS 1520#/1540# or PHYS 2220/2240	PHYS 1402 or 1302/1102 or PHYS 2426 or 2326/2126
	UNT Core: Social & Behavioral Sciences	See list of approved courses	EDSE 3500*	None
<b>* Students must be admitted to Teach North Texas Program prior to enrolling in certain Education courses.</b>				

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	CAS Core: Natural Sciences	See list of approved courses	EDSE 4608* (Student Teaching I)	None
	CHEM 4900 (Research Experience)	None	EDSE 4618* (Student Teaching II)	
	CHEM (4000 level)		EDSE 4128* (Student Teaching Seminar)	
	EDSE 4000*			
	EDSE 4500*			