

# College of Arts & Sciences

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

### 2012-2013 Texas Common Course Numbering System Transfer Guide

- Entering students interested in majoring in biochemistry will be classified as pre-majors and will be advised by the department. Admission to the university does not guarantee admission to the major.
- To be admitted to the major (and be eligible to enroll in advanced biochemistry courses), a pre-major must meet all the requirements listed in "Admission to the Major" below.
- 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) and a college level mathematics course. 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

This requirement will be met by fulfilling the B.S. Biochemistry English Composition & Rhetoric requirement (see next page).

##### UNT Core: Mathematics

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

##### UNT Core: Natural Science

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

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

Two courses chosen from: HIST 1301, 1302, 2301

##### 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: ARTS 1301, 1303, or 1304; DRAM 1310; MUSI 1306 or 1307; SPCH 2341

##### UNT Core: Humanities

This requirement will be met by fulfilling the Teach North Texas 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; HUMA 2323; PSYC 2301; SOCI 1301; SPCH 1318; TECA 1354

##### UNT Core: Discovery

One course chosen from: ARTS 1301; BIOL/HECO 1322; GEOG 1303; HIST 2321 or 2322; PHIL 1301, 2303, or 2306; SPCH 1311 or 1315; TECA 1303

##### UNT Core: Capstone

This requirement will be met by fulfilling teacher certification requirements.

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

Any foreign language 2311 and 2312.

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.

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

Complete three 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.

##### Biochemistry: Admission to the Major

College Admissions Requirements: Entering transfer student interested in majoring in Biochemistry must first apply to be a pre-major.

All of the following pre-major requirements must be completed to apply for the Biochemistry major and take upper level courses.

- Complete 30 hours of college-level courses
- Biology Core Courses: BIOL 1406 or 1106/1306; BIOL 1407 or 1107/1307 or BIOL 2421 or 2321/2121 with a grade of C or higher.
- Chemistry Core Courses: CHEM 1411 or 1111/1311; CHEM 1412 or 1112/1312; CHEM 2423 or 2123/2323 (approved substitution) with a grade of C or higher.
- Mathematics Pre-requisite course: MATH 2312 or 2412 (pre-requisite to Calculus I) with a grade of C or higher.
- A minimum UNT 2.5 grade point average and an overall 2.5 grade point average are required to enter the department as a pre-major or major (beginning freshmen are exempt).
- Have at least a 2.5 grade point average on the required biology and chemistry courses listed; and have a minimum 2.5 overall grade point average.
- A minimum UNT 2.5 grade point average and an overall 2.5 grade point average are required to enter the department as a pre-major or major (beginning freshmen are exempt).

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#### **Biochemistry: English Composition and Rhetoric**

TCCNS Options:

- 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 however, students who have completed ENGL 1302 prior to attending UNT may substitute this course for ENGL 2311*

#### **Biochemistry: 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 Natural Science core and major requirements.

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

#### **Biochemistry: Advanced Coursework**

No TCCNS options available

#### **Biochemistry: Other Course Requirements**

TCCNS Options:

- ENGL 2311
- MATH 2313 or 2413 or 2513 (fulfills both Mathematics core and program requirements)
- MATH 2314 or 2414
- PHYS 2425 or 2125/2325 (approved substitution)
- PHYS 2426 or 2126/2326 (approved substitution)
- A minimum 2.5 grade point average must be maintained on all advanced courses in the division of sciences. A minimum 2.5 grade point average is required for graduation.
- Students in the department whose UNT or overall grade point average drop below 2.5 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.
- A minimum UNT 2.5 grade point average and an overall 2.5 grade point average are required to enter the department as a pre-major or major (beginning freshmen are exempt).

#### **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.

PHIL 2600, offered only at UNT, will fulfill both the Humanities core and Major requirements.

#### **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 (8-12)

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 Arts degree as specified in the "[General University Requirements](#)" section of the UNT catalog and the College of Arts and 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 2012-2013](#).

For additional program and contact information see the College of Arts and Sciences Student Advising website: [www.cas.unt.edu/advising](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	UNT Core: Social & Behavioral Sciences	See list of approved courses	PHIL 2600	None
	TNTX 1100* (1 hr)	None	TNTX 1200* (1 hr)	
	CHEM 1410/CHEM 1430	CHEM 1411 or 1111/1311	CHEM 1420/CHEM 1440	CHEM 1412 or 1112/1312
	ENGL 1310	ENGL 1301	TECM 2700	ENGL 2311
	MATH 1710	MATH 2313 or 2413 or 2513	UNT Core: Discovery	See list of approved courses
	<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
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
	MATH 1720	MATH 2314/2414	UNT Core: Political Science	See list of approved courses
	UNT Core: U.S. History	See list of approved courses	UNT Core: U.S. History	See list of approved courses
	PHYS 1510/1530 or PHYS 1710/1730	PHYS 2425 or 2125/2325	PHYS 1520/1540 or PHYS 2220/2240	PHYS 2426 or 2126/2326

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	CHEM 3510	None	BIOC 4550	None
	EDSE 3500		CHEM 3520	
	CHEM 3451/3452		EDSE 4000*	
	BIOC 4540/4560		UNT Core: Visual & Performing Arts	See list of approved courses
	UNT Core: Political Science	See list of approved courses	Elective EDSE 4000*	Consult UNT advisor

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	EDSE 4500*	None	EDSE 4608* (Student Teaching I)	None
	BIOC 4570			
	BIOC 4580		EDSE 4618* (Student Teaching II)	
	Elective (advanced)		EDSE 4628* (Student Teaching Seminar) (1 hr)	
	CHEM 4700			