

# College of Arts & Sciences

## B.S. Biochemistry

### 2010-2011 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) 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.

*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.*

#### UNT Core: Mathematics

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

#### UNT Core: Natural Science

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

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

Two courses chosen from:

- Foreign Language (ARAB, CHIN, FREN, GERM, ITAL, JAPN, PORT, RUSS, SPAN): 1311/1411/1511, 1312/1412/1512, 2311, 2312
- ARTS 1303
- BIOL/HECO 1322
- BIOL 1323
- COMM 1307
- DANC 1305
- DANC 1306
- GEOG 1303
- HIST 2321
- HIST 2322
- HUMA 2319
- MUSI 1310
- PHIL 1304
- SOCI 2319
- SOCI 2320
- SPCH 1311
- SPCH 1315
- SPCH 1318
- SPCH 1321
- SPCH 2341
- TECA 1303
- TECA 1318

*This requirement will be met by fulfilling College of Arts and Sciences Foreign Language requirement Option I. Students who select Option II must complete 6 hours from the approved list for Understanding the Human Community to satisfy university core requirements.*

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

Students may complete either of two options to satisfy the College of Arts and Sciences foreign language requirement:

**Option I:** 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.

**Option II for B.S. Majors:** Complete three courses from approved upper level 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 inclusion in the student's degree plan. Students who select this option must also complete 6 hours from the approved list for Understanding the Human Community to satisfy university core requirements.

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#### 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
- Have at least a 2.5 grade point average on the required biology, chemistry and mathematics courses listed; and have a minimum 2.5 overall grade point average.
- Biology Core Courses: BIOL 1406 or 1106/1306; BIOL 1407 or 1107/1307 or BIOL 2421 or BIOL 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.)

#### Biochemistry: Major Requirements

TCCNS Options:

- 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
- MATH 2314 or 2414
- PHYS 2425 or PHYS 2125/2325 (approved substitution)
- PHYS 2426 or PHYS 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.

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

Minor of 20 hours in Biology is required.

TCCNS Options:

- BIOL 1406 or 1106/1306
- BIOL 1407 or 1107/1307 or BIOL 2421 or BIOL 2321/2121

#### 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" in the [Academics](#) section of the UNT catalog and the College of Arts and Sciences requirements.

**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 and 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>

# College of Arts & Sciences

## B.S. Biochemistry-Option I

### 2010-2011 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/BIOL 1730	BIOL 1406 or 1106/1306	BIOL 1720/BIOL 1740 or BIOL 1722/BIOL 1744, or BIOL 2041/BIOL 2042	BIOL 1407 or 1107/1307 or BIOL 2321/2121
	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	MATH 1720	MATH 2314 or 2414

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
	UNT Core: Political Science	See list of approved courses	UNT Core: Political Science	See list of approved courses
	UNT Social and Behavioral Science	See list of approved courses		

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	CHEM 3510	None	BIOC 4570/4580	None
	CHEM 3451/3452		CHEM 3520	
	BIOL 3451/3452		UNT Core: U.S. History	See list of approved courses
	UNT Core: U.S. History	See list of approved courses	UNT Core: Visual & Performing Arts	See list of approved courses
	UNT Core: Humanities	See list of approved courses		

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	BIOC 4540/4560	None	BIOC 4550	None
	BIOL 3510/3520		BIOL Elective (advanced with Laboratory)	
	Elective (advanced)		Elective (advanced)	
	Elective	Consult UNT advisor	Elective	Consult UNT advisor
	Elective	Consult UNT advisor	Elective	Consult UNT advisor