

College of Arts & Sciences

B.S. Mathematics

Secondary-Level Teachers Certification (Grades 7-12)

2013-2014 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 Program in the College of Arts and Sciences.

Courses Recommended for Transfer

The UNT Core requirements, with the exception of U.S. History and 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: English Composition & Rhetoric

ENGL 1301; and ENGL 1302 or 2311

ENGL 2311 is recommended.

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

UNT Core: Mathematics

This requirement will be met by fulfilling B.S. Mathematics major requirements (see next page).

UNT Core: Natural Science

This requirement will be met by fulfilling B.S. Mathematics laboratory science requirement (see next column).

UNT Core: U.S. History

Two courses chosen from: HIST 1301, 1302, 2301

UNT Core: Political Science

As of Fall 2013, only the following courses are offered at the two-year level:

- GOVT 2305 and 2306

Other acceptable combinations are:

- GOVT 2301 and 2302
- GOVT 2301 and 2305
- 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 Program requirement (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

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

UNT Core: Capstone

This requirement will be met by fulfilling teacher certification requirements.

B.S. Mathematics: Laboratory Sciences

Three laboratory science courses for science majors are required as follows:

Option I. Biology Emphasis

- BIOL 1406 or 1106/1306
- BIOL 1407 or 1107/1307
- PHYS 2425 (2125/2325) or CHEM 1411 (1111/1311)

Option II. Chemistry Emphasis

- CHEM 1411 or 1111/1311
- CHEM 1412 or 1112/1312
- Any CHEM numbered at least 2000 or one of the following:

- ANTH 2401 or 2101/2301
- ASTR 1403 or 1103/1303
- ASTR 1404 or 1104/1304
- BIOL 1406 or 1106/1306
- BIOL 1407 or 1107/1307
- BIOL 1411 or 1111/1311
- BIOL 1413 or 1113/1313
- BIOL 2401 or 2101/2301
- BIOL 2402 or 2102/2302
- BIOL 2406 or 2106/2306
- CHEM 1411 or 1111/1311
- CHEM 1412 or 1112/1312
- GEOL 1401 or 1101/1301
- GEOL 1403 or 1103/1303
- PHYS 1401 or 1101/1301
- PHYS 1402 or 1102/1302
- PHYS 1403 or 1103/1303
- PHYS 1404 or 1104/1304
- PHYS 1410 or 1110/1310
- PHYS 1415 or 1115/1315
- PHYS 2425 or 2125/2325
- PHYS 2426 or 2126/2326

Option III. Physics Emphasis

- PHYS 2425 or 2125/2325
- PHYS 2426 or 2126/2326
- Any PHYS numbered at least 2000 or one of the following:
 - ANTH 2401 or 2101/2301
 - ASTR 1403 or 1103/1303
 - ASTR 1404 or 1104/1304
 - BIOL 1406 or 1106/1306
 - BIOL 1407 or 1107/1307
 - BIOL 1411 or 1111/1311
 - BIOL 1413 or 1113/1313
 - BIOL 2401 or 2101/2301
 - BIOL 2402 or 2102/2302
 - BIOL 2406 or 2106/2306
 - CHEM 1411 or 1111/1311
 - CHEM 1412 or 1112/1312
 - GEOL 1401 or 1101/1301
 - GEOL 1403 or 1103/1303
 - PHYS 1401 or 1101/1301
 - PHYS 1402 or 1102/1302
 - PHYS 1403 or 1103/1303
 - PHYS 1404 or 1104/1304
 - PHYS 1410 or 1110/1310
 - PHYS 1415 or 1115/1315
 - PHYS 2425 or 2125/2325
 - PHYS 2426 or 2126/2326

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B.S. Mathematics: Laboratory Sciences (continued)

Option IV. Students double majoring in mathematics and another discipline (typically biology, chemistry, physics or engineering) that requires at least 12 hours of laboratory science intended for science and engineering majors may use the same laboratory science courses that satisfy the requirements for the other major to satisfy the laboratory science requirement for the mathematics major.

Option V. Students with a minor in geography or geology may use GEOL 1401 (1101/1301), GEOL 1403 (1103/1303), and either PHYS 2425 (2125/2325) or CHEM 1411 (1111/1311) to satisfy the laboratory science requirement for the mathematics major.

B.S. Mathematics: Foreign Language

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

Option I: Proficiency in a foreign language equivalent to 1312 or 1412 or 1512. Students intending to pursue a graduate degree in mathematics are encouraged to study French, German or Russian.

Option II: Complete 6 hours of technical writing courses from the following: ENGL 2311 and additional upper level options at UNT.

B.S. Mathematics: Major Requirements

- MATH 2305 or 2405 (fulfills both university core discovery and major requirements)
- MATH 2313 or 2413 or 2513
- MATH 2314 or 2414
- MATH 2315 or 2416
- MATH 2318 or 2418

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

Students must achieve a grade point average of at least 2.0 in all

B.S. Mathematics: Other Course Requirements

- COSC 1315 or 1415, or COSC 1336 or 1436

Computer Programming: COSC 1315 or COSC 1336 is required. Students taking mathematics courses at the 2000-level or above are expected to be competent in computer programming, using languages such as BASIC, C, C++, Fortran, PASCAL or Java. Students are encouraged to complete the programming requirement during their freshman or sophomore year. Students who have acquired a solid programming competency in a non-academic setting, such as through work experience, may demonstrate their programming competency by passing a departmental exam in place of the COSC 1315 or 1415; or COSC 1336 or 1436 course requirement.

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: Mathematics (7-12)

Additional requirements for Teacher Certification in Mathematics include a 2.5 overall GPA (including all transferred courses), a 2.5 UNT GPA and a 2.5 major GPA.

Teach North Texas Minor Requirements:

A minor in mathematics and science secondary teaching, administered by Teach North Texas, is required.

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 the Teach North Texas requirements.

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 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 & Sciences required curriculum and policies are located in the [Undergraduate Catalog 2013-2014](#).

For additional program and contact information see the College of Arts and Sciences Student Advising website: 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.

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
FRESHMAN	ENGL 1310 or 1313	ENGL 1301	MATH 2100	None
	MATH 1710	MATH 2313 or 2413 or 2513	TECM 2700	ENGL 2311
	UNT Core: Political Science	See list of approved courses	MATH 1720	MATH 2314 OR 2414
	CSCE 1020 or CSCE 1030	COSC 1315 or 1415 or COSC 1336 or 1436	UNT Core: Political Science	See list of approved courses
	TNTX 1100*	None	TNTX 1200* B.S. Math: Laboratory Science	None See list of approved courses
* Students must be admitted to the Teach North Texas Program prior to enrolling in certain Education courses.				

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SOPHOMORE	EDSE 3500*	None	EDSE 4000*	None
	Foreign Language 1020 or advanced technical writing	Foreign Language 1312 or 1412 or 1512	MATH 3000	
	MATH 2700	MATH 2318 or 2418	MATH 3680	None
	MATH 2730	MATH 2315 or 2415	MATH 2000	
	B.S. Math Laboratory Science	See list of approved courses	UNT Core: Visual & Performing Arts	

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	MATH Elective (3350 or higher)	None	MATH 4050	None
	MATH 3510 or 3610		MATH 4060	
	B.S. Math Laboratory Science	See list of approved courses	PHIL 2600	
	UNT Core: U.S. History	See list of approved courses	Elective	See list of approved courses
	UNT Core: Social & Behavioral Science	See list of approved courses	UNT Core: U.S. History	See list of approved courses

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	EDSE 4500*	None	EDSE 4608* (Student Teaching)	None
	MATH Elective (3350 or higher)		EDSE 4618* (Student Teaching)	
	MATH Elective (3350 or higher)			
	MATH analysis or algebra requirement (advanced)		Consult UNT Advisor	EDSE 4628*
	Elective	Elective		Consult UNT Advisor
	Elective	Consult UNT Advisor	Elective	Consult UNT Advisor