

# College of Arts & Sciences

## B.A. Mathematics

### Secondary-Level Teacher Certification (Grades 7-12)

#### 2015-2016 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.

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
FRESHMAN	ENGL 1310	ENGL 1301	B.A. Math Major: Laboratory Science	See list of approved courses
	Foreign Language 2040	Foreign Language 2311	Foreign Language 2050	Foreign Language 2312
	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720	MATH 2314 or 2414
	CSCE 1020 or CSCE 1030	COSC 1315 or 1415 or COSC 1336 or 1436	TECM 2700	ENGL 2311
	Elective	Consult UNT Advisor	TNTX 1200* (2 hrs)	None
	TNTX 1100* (1hr)	None	MATH 2100	
<b>* Students must be admitted to the 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	UNT Core: Government/Political Sciences	See list of approved courses	UNT Core: Government/Political Science	See list of approved courses
	MATH 2700	MATH 2318 or 2418	MATH 2000	MATH 2305 or 2405
	MATH 2730	MATH 2315 or 2415	EDSE 4000*	None
	B.A. Math Major: Laboratory Science	See list of approved courses	MATH 3000	
	EDSE 3500*	None	Elective	Consult UNT Advisor

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	MATH 3510 or 3610	None	UNT Core: American History	See list of approved courses
	MATH analysis or algebra requirement (advanced)		UNT Core: Creative Arts	See list of approved courses
	Elective	Consult UNT Advisor	MATH 4050	None
	UNT Core: Social & Behavioral Sciences	See list of approved courses	MATH 4060	
	UNT Core: American History	See list of approved courses	PHIL 2600	

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	MATH 3680	None	EDSE 4608* (Student Teaching)	None
	EDSE 4500*		EDSE 4618* (Student Teaching)	
	MATH 3850			
	TNTX 3100		EDSE 4628* (Student Teaching Seminar)	
	B.A. Math Major: Laboratory Science		See list of approved courses	
	Elective (advanced)		Consult UNT Advisor	

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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). 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

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.

*ENGL 2311 is recommended instead of ENGL 1302.*

##### UNT Core: Capstone

This requirement will be met by fulfilling teacher certification requirements.

*Note: The Core Capstone courses are under review by the Texas Higher Education Coordinating Board, and are subject to change.*

##### UNT Core: Mathematics

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

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

Any foreign language 2311 and 2312.

Courses must be taken in the same language.

##### UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the B.A. Mathematics laboratory science requirement (see next page).

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.

##### UNT Core: American History

Two courses chosen from: HIST 1301, 1302, 2301

##### B.A. Mathematics: Major Requirements

- MATH 2313 or 2413 or 2513 (fulfills both university mathematics core and major requirements)
- MATH 2314 or 2414
- MATH 2318 or 2418
- MATH 2315 or 2415
- MATH 2305 or 2405 (fulfills both university core discovery and major requirements)

##### UNT Core: Government/Political Science

GOVT 2305 and 2306

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

##### 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

This requirement will be met by fulfilling the Teach North Texas Program requirement (see next page).

##### 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; SPCH 1318; TECA 1354

##### UNT Core: Discovery

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

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#### Mathematics: Other requirements

The College of Arts and Sciences major in mathematics with Teacher Certification requires students to complete at least 11 hours in laboratory sciences.

##### Option I

Group I: Complete the following course:

- BIOL 1406 or 1106/1306\*\*

Mathematics majors with a minor in geography or geology may also choose GEOL 1403 and GEOL 1401.

Group II: Complete one of the following laboratory courses:

- PHYS 2425 or 2325/2125
- CHEM 1411 or 1111/1311

Group III: Complete one of the following Laboratory courses.

- ANTH 2401 or 2101/2301
- 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
- GEOL 1401 or 1101/1301
- GEOL 1403 or 1103/1303

##### Option II

Group I: Complete two of the following Laboratory courses.

- CHEM 1411 OR 1311/1111
- CHEM 1412 OR 1312/1112
- PHYS 2425 OR 2325/2125
- PHYS 2426 OR 2326/2146

Group II: Complete one of the following Laboratory courses.

- ANTH 2401 or 2101/2301
- 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
- GEOL 1401 or 1101/1301
- GEOL 1403 or 1103/1303

\*\* Approved substitution

##### Option III

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.

##### Computer Programming course

Choose one course from below:

- COSC 1315 or 1415
- 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.

<http://registrar.unt.edu/transfer-guides>

#### 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 Language, Philosophy and Culture core and the Teach North Texas 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: 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.

#### 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 Information 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 2015-2016](#).

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)