

# College of Science

## B.A. Mathematics

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

#### 2019-2020 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	<a href="#">See list of approved courses</a>
	Elective	Consult UNT advisor	Elective	Consult UNT advisor
	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720	MATH 2314 or 2414
	MATH 2000	MATH 2305 or 2405	TECM 2700	ENGL 2311
	Elective	Consult UNT advisor	TNTX 1200* (2 hrs)	None
	TNTX 1100* (1 hr)	None	MATH 2100	
* 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	PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
	MATH 2700	MATH 2318 or 2418	CSCE 1020 or CSCE 1030	COSC 1315 or 1415 or COSC 1336 or 1436
	MATH 2730	MATH 2315 or 2415	MATH 3680	None
	B.A. Math Major: Laboratory Science	<a href="#">See list of approved courses</a>	MATH 3000	
	EDCI 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	<a href="#">See list of approved courses</a>
	MATH 4050		None	
	PHIL 2600			
	EDCI 4000*		MATH 3850	None
	UNT Core: American History		MATH 4060	
	<a href="#">See list of approved courses</a>	TNTX 3100		
		B.A. Math Major: Laboratory Science (may count as Component Area Option)		

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	UNT Core: Social & Behavioral Sciences	<a href="#">See list of approved courses</a>	EDSE 4608* (Student Teaching I)	None
	UNT Core: Creative Arts	<a href="#">See list of approved courses</a>		
	EDCI 4500*	None	EDSE 4618* (Student Teaching II)	
	Advanced Algebra or Analysis Elective		EDSE 4628* (Student Teaching Seminar) (1 hr)	
	Foreign Language Option I or II		Consult UNT advisor	

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Students may not declare a major within the College of Science until they have completed MATH 1100 or have demonstrated proficiency through a math placement exam. Applicants who do not meet the math proficiency requirement will be provisionally admitted as Pre-College of Science (PCOS). PCOS students may visit the College of Science Advising Center for assistance.

#### Courses Recommended for Transfer

The UNT Core 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: Mathematics

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

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

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

##### UNT Core: American History

Two courses chosen from: HIST 1301, 1302, 2301

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

GOVT 2305 and 2306

##### UNT Core: Creative Arts

One course chosen from: ARTS 1301 or 1304; DRAM 1310; MUSI 1306; 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; SOCW 2361; SPCH 1318; TECA 1354

##### UNT Core: Component Area Option

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

##### College of Science Core: Breadth Requirement

Students pursuing the Bachelor of Arts must complete four classes (minimum 3 hours each) from classes outside of the College of Science. These classes may not be simultaneously applied to University Core Curriculum requirements.

This requirement will be deemed complete for Bachelor of Arts students that complete the Teach North Texas program.

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

- MATH 2313 or 2413 or 2513 (also fulfills the Mathematics core requirement)
- MATH 2314 or 2414
- MATH 2318 or 2418
- MATH 2315 or 2415
- MATH 2305 or 2405

MATH 2314 and 2305 also fulfill the Component Area Option core requirement.

##### Advanced Mathematics Courses

No TCCNS options available

Students must achieve a grade point average of at least 2.0 in all mathematics courses numbered 3350 and above that are applied toward the major.

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

##### B.A. Mathematics: Foreign Language

Students may complete either of two options to satisfy the Mathematics 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 (also partially fulfills Communication core requirement) and one advanced level TECM course option at UNT from approved list.

##### B.A. Mathematics: Laboratory Sciences

The College of Science major in mathematics with Teacher Certification requires students to complete at least 11 hours in laboratory sciences. These may also fulfill the Life & Physical Sciences and Component Area Option core requirements.

##### Option I

Group I: Complete the following course:

- BIOL 1406 or 1306/1106\*\*

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

Group II: Complete one of the following laboratory courses:

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

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#### B.A. Mathematics: Laboratory Sciences (cont.)

Group III: Complete one of the following laboratory courses.

- ANTH 2401 or 2101/2301
- BIOL 1407 or 1107/1307\*\*
- BIOL 1411 or 1311/1111
- BIOL 1413 or 1313/1113
- BIOL 2401 or 2301/2101
- BIOL 2402 or 2302/2102
- BIOL 2406 or 2306/2106
- GEOL 1401 or 1301/1101
- GEOL 1403 or 1303/1103

#### 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 2301/2101
- BIOL 1406 or 1306/1106\*\*
- BIOL 1407 or 1307/1107\*\*
- BIOL 1411 or 1311/1111
- BIOL 1413 or 1313/1113
- BIOL 2401 or 2301/2101
- BIOL 2402 or 2302/2102
- BIOL 2406 or 2306/2106
- GEOL 1401 or 1301/1101
- GEOL 1403 or 1303/1103

\*\* 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.

#### B.A. Mathematics: Computer Programming

Choose one course from below:

- COSC 1315 or 1415
- COSC 1336 or 1436

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.

#### Teach North Texas Minor requirements:

Students must complete the required 22 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 2.75 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, is required for the Teach North Texas Program and will also fulfill the Language, Philosophy, and Culture core 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.

#### Special Notes

**Hours Required and General/College Requirements:** A minimum of 120 semester hours, of which 36 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 Science 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 Science required curriculum and policies are located in the [undergraduate catalog](#) under the corresponding catalog year.

For additional program and contact information, visit the College of Science Student Advising website at [www.cos.unt.edu/advising](http://www.cos.unt.edu/advising).