

# College of Science

## B.A. Mathematics

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

### Mathematics and Physics

### 2018-2019 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	PHYS 1710/1730	PHYS 2425 or 2325/2125
	Elective	Consult UNT advisor	UNT Core: Component Area Option	<a href="#">See list of approved courses</a>
	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720	MATH 2314 or 2414
	MATH 2000 (counts as Component Area Option)	MATH 2305 or 2405	TECM 2700	ENGL 2311
	TNTX 1100* (1 hr)	None	TNTX 1200* (2 hrs)	None
	Elective	Consult UNT Advisor	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	UNT Core: Creative Arts	<a href="#">See list of approved courses</a>
	MATH 2730	MATH 2315 or 2415	CSCE 1020 or CSCE 1030	COSC 1315/1415 or COSC 1336/1436
	PHYS 2220/2240	PHYS 2426 or 2326/2126	MATH 3680	None
	EDCI 3500* (counts as COS Core Breadth Requirement)	None	MATH 3000 PHYS 3010/3030	

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>
	PHIL 2600 (counts as Language, Philosophy & Culture)		UNT Core: Creative Arts	<a href="#">See list of approved courses</a>
	MATH 4050		MATH 3850	None
	EDCI 4000* (counts as COS Core Breadth Requirement)		MATH 4060	
	UNT Core: American History		TNTX 3100	

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	Advanced Analysis Elective	None	EDSE 4628* (Student Teaching Seminar) (1 hr)	None
	EDCI 4500* (counts as COS Core Breadth Requirement)		EDSE 4608* (Student Teaching) (counts as COS Core Breadth Requirement)	
	Advanced Algebra Elective			
	Elective	Consult UNT Advisor		
	UNT Core: Social & Behavioral Science	<a href="#">See list of approved courses</a>	EDSE 4618* (Student Teaching)	

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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 office 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 column).

#### 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

One course for this requirement will be met by fulfilling the B.A. Mathematics major requirements (see next column). In addition, complete one course from Option A OR Option B.

**Option A:** ANTH 2346, 2351, or 2401; ARTS 1301 or 1304; ASTR 1403 or 1404; BIOL 1408 or 1413, or 2406; COMM 1307; CRIJ 1301; DRAM 1310; ECON 2301 or 2302; ENGL 1301, 1302, 2311, 2332, or 2333; HECO 1322; GEOG 1303; GEOL 1401 or 1403; HIST 1301, 1302, 2321, or 2322; MATH 1316, 1324, 1325 or 1425, 1332, 1342 or 1442 or 2342 or 2442, 1350, 2305 or 2405, 2312 or 2412, 2313 or 2413 or 2513; MUSI 1306 or 1307; PHIL 1301, 1304, 2303, 2306, or 2316; PHYS 1403, 1404, 1410, or 1415; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1315, 1318 or 2341; TECA 1354

**Option B:** SPCH 1311; TECA 1303

#### 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

- 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 Component Area Option and major requirements)

##### Physics

- PHYS 2425 or 2125/2325
- PHYS 2426 or 2326/2126  
(PHYS courses above fulfill both university laboratory science core and major requirements.)

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

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#### Mathematics: Other course requirements

##### 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.

#### 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, available only at UNT, will fulfill both the Language, Philosophy & 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 and Physics (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 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).