

# College of Arts & Sciences

## B.A. Mathematics

### Secondary-Level Teacher Certification (Grades 8-12)

### Mathematics and Physics

### 2010-2011 Texas Common Course Numbering System Transfer Guide



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 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: Natural Science

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

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

*PHIL 2600 offered at UNT is recommended.*

##### UNT Core: Understanding the Human Community

This requirement will be met by fulfilling College of Arts and Sciences foreign language requirement (see below).

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

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.

##### 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

###### 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 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:

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.

#### 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 (Grades 8-12)

Exam #2 TExES: Mathematics and Physics

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](#)" in the [Academics](#) section of the UNT catalog and the College of Arts & 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 & 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>

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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	ENGL 1301	PHYS 1710/1730	PHYS 2425 or 2325/2125
	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 1315/1415 or COSC 1336/1436	ENGL 1320 or TECM 2700	ENGL 1302 or ENGL 2311
	TNTX 1100*	None	TNTX 1200*	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: Political Sciences	See list of approved courses	UNT Core: Political Science	See list of approved courses
	MATH 2700	MATH 2318 or 2418	UNT Core: Visual & Performing Arts	See list of approved courses
	MATH 2730	MATH 2315 or 2415	EDSE 4000*	None
	PHYS 2220/2240	PHYS 2426 or 2326/2126	MATH 3680	
	EDSE 3500*	None	MATH 3000	

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

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	PHYS 3010/3030	None	EDSE 4128* (Student Teaching Seminar)	None
	EDSE 4500*		EDSE 4608* (Student Teaching)	
	MATH elective (advanced)			
	UNT Core: Humanities	See list of approved courses	EDSE 4618* (Student Teaching)	
	Elective	Consult UNT Advisor		
	Elective	Consult UNT Advisor		