

# College of Arts & Sciences

## B.A. Mathematics

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

### Mathematics and Physics

### 2011-2012 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 college level mathematics course. 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

##### 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: 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.A. Mathematics major requirement (see below).

##### UNT Core: Capstone

This requirement will be met by fulfilling teacher certification requirements.

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

Any foreign language 2311 and 2312.

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.*

MATH 2100, offered only at UNT, will fulfill both the Discovery core and the B.A. Mathematics major requirements.

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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.

PHIL 2600, offered only at UNT, will fulfill both the Humanities 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 (8-12)

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 2011-2012](#).

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* MATH 2100	None
<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 4628* (Student Teaching Seminar)	None
	EDSE 4500*		EDSE 4608* (Student Teaching)	
	MATH elective (advanced)			
	Elective	Consult UNT Advisor	EDSE 4618* (Student Teaching)	
	Elective	Consult UNT Advisor		
Elective	Consult UNT Advisor			