

# College of Arts & Sciences

## *B.A. Physics, with Secondary Level Teacher Certification In Physics and Mathematics*

### 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	TECM 2700 (recommended) or ENGL 1320	ENGL 2311 (recommended) or ENGL 1302
	CHEM 1410/1430	CHEM 1411 or 1311/1111	CHEM 1420/1440	CHEM 1412 or 1312/1112
	MATH 1710	MATH 2313 or 2413 or 2513	MATH 1720	MATH 2314 or 2414
	UNT Core: Social & Behavioral Sciences	See list of approved courses	PHYS 1710/1730	PHYS 2425 or 2325/2125
	TNTX 1100* (1 hr)	None	TNTX 1200* (2 hrs)	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	Foreign Language 2040	Foreign Language 2311	Foreign Language 2050	Foreign Language 2312
	MATH 2730	MATH 2315 or 2415	PHYS 3010/3030	None
	PHYS 2220/2240	PHYS 2426 or 2326/2126	MATH 3000	None
	UNT Core: Discovery	See list of approved courses	UNT Core: Government/Political Science	See list of approved courses
	EDSE 3500*	None	EDSE 4000*	None

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	UNT Core: American History	See list of approved courses	UNT Core: American History	See list of approved courses
	UNT Core: Government/Political Science	See list of approved courses	UNT Core: Creative Arts	See list of approved courses
	Elective (2 hrs)	Consult UNT advisor	Elective	Consult UNT advisor
	MATH 4060	None	Elective	Consult UNT advisor
	PHIL 2600		PHYS Elective (advanced)	None
	PHYS Elective (advanced)		PHYS Elective (advanced)	

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	PHYS Elective (advanced)	None	EDSE 4608* (Student Teaching)	None
	PHYS 4700		EDSE 4618* (Student Teaching)	
	EDSE 4500*			
	Elective (advanced)		EDSE 4628* (1 hr)	
	CAS Core: Natural/Life Sciences		See list of approved courses	

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The BA with a major in physics is designed for students planning to teach physics in public school, taking a double major or desiring a liberal arts education with a science concentration.

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.*

#### **UNT Core: Mathematics**

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

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

This requirement will be met by fulfilling the B.A. Physics major requirements (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 or 1307; SPCH 2341

#### **UNT Core: Language, Philosophy and Culture**

This requirement will be met by fulfilling Teach North Texas Program requirements (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**

One course chosen from: ARTS 1301; BIOL/HECO 1322; COMM 1307; MATH 2305 or 2405; SPCH 1311 or 1315; TECA 1303

#### **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.*

#### **College of Arts & Sciences: 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. Physics: Major Requirements**

- PHYS 2425 or 2325/2125
- PHYS 2426 or 2326/2126

*Courses shown above are TCCNS options and do not include all courses required for UNT Physics major.*

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#### B.A. Physics: Other Course Requirements

##### Required courses in mathematics:

MATH 2313 or 2413 or 2513  
MATH 2314 or 2414  
MATH 2315 or 2415

##### Required courses in laboratory science:

(Fulfills both Life & Physical Sciences core and Major requirements.)

CHEM 1411 or 1311/1111  
CHEM 1412 or 1312/1112

Complete one of the following Natural/Life Sciences:

- ANTH 2401
- BIOL 1406 or 1106/1306
- BIOL 1407 or 1107/1307
- BIOL 1408 or 1108/1308
- 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

Substitutions in the B.A. or B.S. degree programs may be made only with the written consent of the department chair.

A minimum grade point average of 2.5 in all advanced-level science and mathematics courses is required for graduation with a degree in physics or engineering physics.

#### Teach North Texas Program: 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 2.5 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 Major 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: Math and Physics (8-12)

Additional requirements for Teacher Certification in Math and Physics 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)