



College of Science

B.S. Physics, Secondary Teacher Certification in Physics & Mathematics (Grades 7-12)

2023-2024 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.

UNT courses noted (#) do not have TCCNS equivalents, but have approved transferable substitutions.

FIRST YEAR FALL		FIRST YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
ENGL 1310	ENGL 1301	TECM 2700 or ENGL 1320	ENGL 2311 or 1302
CHEM 1410/1430	CHEM 1411 or 1311/1111	CHEM 1420/1440	CHEM 1412 or 1312/1112
MATH 1710	MATH 2313 or 2413	MATH 1720	MATH 2314 or 2414
UNT Core: Language, Philosophy, & Culture	See list of approved courses	PHYS 1710/1730 or 1510#/1530#	PHYS 2425 or 2325/2125
TNTX 1100*	N/A	TNTX 1200*	N/A

*Students must be admitted to the Teach North Texas Program prior to enrolling in certain Education courses.

SECOND YEAR FALL		SECOND YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MATH 2730	MATH 2315 or 2415	MATH 2700	MATH 2318 or 2418
PHYS 2220/2240	PHYS 2426 or 2326/2126	PHYS 3010/3030	N/A
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
UNT Core: Creative Arts	See list of approved courses	UNT Core: Social & Behavioral Sciences	See list of approved courses
EDCI 3500*	N/A	EDCI 4000	N/A

THIRD YEAR FALL		THIRD YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
UNT Core: American History	See list of approved courses	UNT Core: American History	See list of approved courses
		PHYS 4950	N/A
PHYS 3510	N/A	MATH 4060	N/A
PHYS 3210	N/A	PHYS 4110	N/A
PHYS 3310	N/A	EDCI 4060	N/A
MATH 3410	N/A	PHYS 4310	N/A

FOURTH YEAR FALL		FOURTH YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
PHYS 4210	N/A	EDCI 4608* (Student Teaching I)	N/A
Advanced PHYS Elective	N/A		
PHYS 4955	N/A	EDCI 4618* (Student Teaching II)	N/A
EDCI 4500*	N/A		
Elective	Consult UNT advisor	EDCI 4628* (Student Teaching Seminar)	N/A
Elective	Consult UNT advisor		



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Students may not declare a major within the College of Science until they have completed MATH 1100 (MATH 1314 or 1414) or MATH 1180 (MATH 1324) with a 'C' or better, 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.

The College of Science offers two options for a Bachelor's of Science in Physics, Option I and Option II. Option II requires a minor in Mathematics and Science Secondary Teaching or a minor in General Engineering Technology.

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.

UNT Core: Mathematics

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

UNT Core: Life & Physical Sciences

This requirement will be met by fulfilling the B.S. Physics program 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, & Culture

One course chosen from: ARTS 1303; ENGL 2321, 2326, 2331, 2332, 2333, 2341, or 2351; HIST 2321 or 2322; PHIL 1301, 1304, 2303, or 2306

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 or 2330; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

UNT Core: Core Option Courses

This requirement will be met by fulfilling the B.S. Physics Additional course requirements (see next column).

B.S. Physics: Major Requirements

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

PHYS 2425 and 2426 also fulfill the Life & Physical Sciences core requirement.

Advanced Physics Courses

No TCCNS options available

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

B.S. Physics: Additional Course Requirements

Required courses in mathematics:

- MATH 2313 or 2413
- MATH 2314 or 2414
- MATH 2315 or 2415
- MATH 2318 or 2418

Required courses in chemistry:

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

MATH 2313 also fulfills the Mathematics core requirement; CHEM 1411 and 1412 also fulfill the Core Option core requirement.

Substitutions 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.

Advanced Mathematics Courses

No TCCNS options available

Courses shown below are TCCNS options and do not include all courses required for UNT B.S. Physics major.

Teach North Texas Program: Minor (Required)

Students in this degree plan must go through the Teach North Texas Program. This program requires 22 hours for a minor in Mathematics and Science Secondary Teaching. Student must complete this 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 Mathematics and Science Secondary Teaching Minor; see current UNT Undergraduate Catalog for all minor requirements.



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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: Physics/Mathematics (7-12)

Additional requirements for Teacher Certification in Physics and 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 Science 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 mandate of the Texas Legislature regarding [Core 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 Advising Center website at www.cos.unt.edu/advising.