College of Science

B.A. Mathematics with Secondary Teacher Certification in Physics & Mathematics

2025-2026

This four-year plan provides a model for on-time completion of this UNT program. Texas Common Course Numbering System (TCCNS) show how course transfers apply to UNT degree requirements. 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.

First Year Fall		First Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
UNT Core: Creative Arts	See list of approved courses	ENGL 1320 or TECM 2700	ENGL 1302 or 2311
ENGL 1310	ENGL 1301	MATH 1720[1]	MATH 2314 or 2414
MATH 1710[1]	MATH 2313 or 2413	MATH 2100	N/A
MATH 2000	MATH 2305	PHYS 1710/1730	PHYS 2325/2125 or 2425
TNTX 1100[2]	N/A	TNTX 1200[2]	N/A

Summer			
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
Foreign Language Option I or II	Consult UNT advisor	Foreign Language Option I or II	Consult UNT advisor

Second Year Fall		Second Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
MATH 2700	MATH 2318 or 2418	CSCE 1010 or 1020 or 1030	COSC 1301 or 1315 or 1336 or 1436
MATH 2730	MATH 2315 or 2415	MATH 3000	N/A
MATH 3850	N/A	MATH 3680	N/A
PHYS 2220/2240	PHYS 2326/2126 or 2426	PHYS 3010/3030	N/A
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306

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
EDCI 3500[2]	N/A	EDCI 4000[2]	N/A
EDCI 4060	N/A	MATH 4060	N/A
MATH 3510 or 3610[3]	N/A	TNTX 3100	N/A
MATH 4050	N/A	Laboratory Science Group III[4]	Consult UNT advisor

[1] Students have the option to take **MATH** 1810 / 1820 / 1830 or **MATH** 1710 / 1820 / 1830 in place of **MATH** 1710 / 1720. Note that the **MATH** 1810 / 1820 / 1830 or the **MATH** 1710 / 1820 / 1830 options may result in needing additional courses taken to fulfill the UNT Core. See your advisor for more information.

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

[3] Note that **MATH** 3510 or 3610 must be taken if neither were completed as part of the depth requirement. If one was taken, then the student will need to take an additional advanced elective.

[4] If the three laboratory courses do not total to be 12 hours, then the student will need to take another elective to reach the 120 required hours for the degree.

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Fourth Year Fall		Fourth Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
UNT Core: Language, Philosophy & Culture	See list of approved courses	EDCI 4608[2] (Student Teaching I)	N/A
UNT Core: Social & Behavioral Sciences	See list of approved courses	EDCI 4618[2] (Student Teaching II)	N/A
EDCI 4500[2]	N/A	EDCI 4628[2] (Student Teaching Seminar)	N/A
MATH Analysis Course (Advanced) [3]	N/A		
MATH Algebra Course (Advanced) [3]	N/A		

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

[3] Note that **MATH** 3510 or 3610 must be taken if neither were completed as part of the depth requirement. If one was taken, then the student will need to take an additional advanced elective.

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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 higher 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.

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 higher is required on courses applied toward this requirement.

ENGL *1301 and 2311 are recommended.*

UNT Core: Mathematics

This requirement will be met by fulfilling the B.A. Mathematics (Teacher Certification in Physics & Mathematics) major requirements.

UNT Core: Life and Physical Sciences

This requirement will be met by fulfilling the B.A. Mathematics (Teacher Certification in Physics & Mathematics) major requirements.

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

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

UNT Core: Social and Behavioral Sciences

One course chosen from: **ANTH** 2346, 2351; **BUSI** 1307; **COMM** 1307; **CRIJ** 1301; **ECON** 2301 or 2302; **GEOG** 1303; **PSYC** 2301; **SOCI** 1301; **SOCW** 2361; **SPCH** 1318; **TECA** 1354

UNT Core: Core Option Courses

This requirement will be met by fulfilling the B.A. Mathematics (Teacher Certification in Physics & Mathematics) major requirements.

College of Science: Breadth Requirement

This requirement will be met by fulfilling the B.A. Mathematics (Teacher Certification in Physics & Mathematics) major requirements.

Mathematics (Teacher Certification in Physics & Math): Major Requirements

TCCNS options:

- **MATH** 2305
- **MATH** 2313 or 2413 (also fulfills the Mathematics core requirement)
- **MATH** 2314 or 2414
- **MATH** 2315 or 2415
- **MATH** 2318 or 2418

Students must achieve a grade point average of at least 2.0 in all mathematics courses which are applied toward a mathematics major and are numbered 3350 or above.

Courses listed above are TCCNS options and do not include all courses required for the B.A. Mathematics (Teacher Certification in Physics & Mathematics) major.

Mathematics (Teacher Certification in Physics & Math): Laboratory Sciences

TCCNS options:

- **PHYS** 2325/2125 or 2425 (also fulfill 3 hours of the Life & Physical Sciences core requirement)
- **PHYS** 2326/2126 or 2426 (also fulfill 3 hours of the Life & Physical Sciences core requirement)

Courses listed above are TCCNS options and do not include all courses required for the B.A. Mathematics (Teacher Certification in Physics & Mathematics) major.

Mathematics (Teacher Certification in Physics & Math): Foreign Language

TCCNS options:

- Foreign Language 1411 & 1412
- **ENGL** 2311

Students may complete either of two options to satisfy the College of Science foreign language requirement.

Option I: Proficiency in a foreign language equivalent to 1412 is required. Students are encouraged to choose French, German, or Russian for the foreign language requirement.

Option II: Complete 6 hours of technical writing courses from **TECM** 2700 (***ENGL*** *2311*), 4180, 4190, 4250, or 4700.

Mathematics (Teacher Certification in Physics & Math): Computer Programming

TCCNS options:

- **COSC** 1301 or 1315 or 1336 or 1436

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 course requirement.

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Mathematics (Teacher Certification in Physics & Math): Required Minor

No TCCNS options available.

A minor in Mathematics and Science Secondary Teaching, administered by Teach North Texas, is required. This minor requires 22 hours and students must 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.

A 2.75 GPA is required on all courses counting toward the Mathematics and Science Secondary Teaching Minor; see the current Undergraduate catalog for all minor requirements.

Mathematics: Teacher Certification Information

No TCCNS options available.

To be certified to teach in the state of Texas, students must successfully pass appropriate state exams. Consult the College of Education TExES Success Office for specific exams requirements and information.

Additional requirements for Teacher Certification in Physics & Mathematics include a 2.5 overall GPA (including all transferred courses), a 2.5 UNT GPA, a 2.5 major GPA, and a 2.75 GPA in all Teacher Education courses.

Special Notes

Hours Required and General/College Requirements: A minimum of 120 semester hours, of which 36 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 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 Student Advising website at https://cos.unt.edu/advising.