



College of Science

B.S. Physics with a Concentration in Astrophysics

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: Social & Behavioral Sciences	See list of approved courses	PHYS 1710/1730* or 1510#/1530#	PHYS 2425 or 2325/2125
*PHYS 1401 and 1402, when taken together, are an acceptable substitution for PHYS 1710/1730.			

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 or 1520#/1540#	PHYS 2426 or 2326/2126	PHYS 3010/3030	N/A
UNT Core: Language, Philosophy, & Culture	See list of approved courses	UNT Core: Creative Arts	See list of approved courses
PSCI 2305	GOVT 2305	PSCI 2306	GOVT 2306
UNT Core: American History	See list of approved courses	UNT Core: American History	See list of approved courses

THIRD YEAR FALL		THIRD YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
Elective	Consult UNT advisor	Elective	Consult UNT advisor
Astrophysics Elective (Advanced)	N/A	PHYS 3510	N/A
PHYS 3210	N/A	PHYS 4110	N/A
PHYS 3310	N/A	PHYS 3420	N/A
MATH 3410	N/A	Astrophysics Elective (Advanced)	N/A

FOURTH YEAR FALL		FOURTH YEAR SPRING	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
PHYS 4210	N/A	PHYS 4310	N/A
PHYS 4950	N/A	PHYS 4955	N/A
Elective	Consult UNT advisor	Astrophysics Elective (Advanced)	N/A
Elective	Consult UNT advisor	Elective	Consult UNT advisor
Elective	Consult UNT advisor	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.

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 program requirements (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 may be met by fulfilling the B.S. Physics program requirements (see next column).

B.S. Physics: Major Requirements

Complete one of the following course groups:

- **PHYS** 2425 or 2325/2125
- **PHYS** 1401 or 1301/1101 *and* **PHYS** 1402 or 1302/1102

The **PHYS** courses listed above 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: Other Course Requirements

Required courses in mathematics:

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

MATH 2313 also fulfills the Mathematics core requirement.

Required courses in chemistry:

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

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.

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

Teacher Certification Option

The College of Science encourages students to explore teaching at the secondary level as a career option. A higher GPA may be required for the certification option. For more information contact your advisor.



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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 cos.unt.edu/advising.