



College of Science

B.S. Physics with a concentration in Computational Physics

2024-2025 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.

First Year Fall		First Year Spring	
UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
UNT Core: Social & Behavioral Sciences	See list of approved courses	CHEM 1420/1440	CHEM 1312/1112 or 1412
CHEM 1410/1430	CHEM 1311/1111 or 1411	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	PHYS 1710/1730 or 1510/1530 or 1410/1430	PHYS 2325/2125 or 2425 or 1301/1101

Second Year Fall		Second 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
UNT Core: Language, Philosophy & Culture	See list of approved courses	UNT Core: Creative Arts	See list of approved courses
MATH 2730	MATH 2315 or 2415	MATH 2700	MATH 2318 or 2418
PHYS 2220/2240 or 1520/1540 or 1420/1440	PHYS 2326/2126 or 2426 or 1302/1102	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
MATH 3410	N/A	PHYS 3420	N/A
PHYS 3210	N/A	PHYS 3510	N/A
PHYS 3310	N/A	PHYS 4110	N/A
Computational Physics Course (Advanced)	N/A	Computational Physics Course (Advanced)	N/A
Elective	Consult UNT advisor	Elective	Consult UNT advisor

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
Computational Physics Course (Advanced)	N/A	Elective	Consult UNT advisor
Elective	Consult UNT advisor	Elective	Consult UNT advisor
Elective	Consult UNT advisor	Elective	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.



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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.

UNT Core: Mathematics

This requirement will be met by fulfilling the B.S. Physics (Computational Physics) major requirements.

UNT Core: Life and Physical Sciences

This requirement will be met by fulfilling the B.S. Physics (Computational Physics) 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** 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 (Computational Physics) major requirements.

Physics (Computational Physics): Major Requirements

TCCNS options:

- **PHYS 2325/2125** or **2425**, or **1301/1101** (also fulfills a portion of the Life & Physical Sciences core requirement)
- **PHYS 2326/2126** or **2426**, or **1302/1102** (also fulfills a portion of the Life & Physical Sciences core requirement)

PHYS 1401 and **1402**, when taken together, are an acceptable substitution for **PHYS 1710/1730** (at UNT only). Substitutions may be made only with the written consent of the department chair.

Courses listed above are TCCNS options and do not include all courses required for the B.S. Physics (Computational Physics) major.

Physics (Computational Physics): Additional Requirements

TCCNS options:

- **CHEM 1311/1111** or **1411** (also fulfills a portion of the Core Option Courses core requirement)
- **CHEM 1312/1112** or **1412** (also fulfills a portion of the Core Option Courses core requirement)
- **MATH 2313** or **2413** (also fulfills the Mathematics core requirement)
- **MATH 2314** or **2414**
- **MATH 2315** or **2415**
- **MATH 2318** or **2418**

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 listed above are TCCNS options and do not include all courses required for the B.S. Physics (Computational Physics) major.

Physics (Computational Physics): 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.

Physics (Computational Physics): Grad Track Option

The B.S. Physics (Computational Physics) major has a grad track option leading to a M.S. Physics. For more information, review the UNT undergraduate catalog and consult a UNT 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 in Physics 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>.