

College of Arts & Sciences

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

2011-2012 Texas Common Course Numbering System Transfer Guide



- 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) or a college level mathematics course. 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

UNT Core: English Composition & Rhetoric

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: Natural Science

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

UNT Core: U.S. History

Two courses chosen from: HIST 1301, 1302, 2301

UNT Core: Political Science

Two courses chosen from one of the following combinations:

- GOVT 2301 and 2302
- GOVT 2301 and 2305
- GOVT 2305 and 2306
- GOVT 2301 and 2306
- GOVT 2302 and 2306

UNT Core: Visual & Performing Arts

One course chosen from: ARTS 1301, 1303, or 1304; DRAM 1310; MUSI 1306 or 1307; SPCH 2341

UNT Core: Humanities

This requirement will be met by fulfilling Teach North Texas Program requirements (see page two).

UNT Core: Social & Behavioral Sciences

One course chosen from: ANTH 2346 or 2351; COMM 1307; CRIJ 1301; ECON 2301 or 2302; HUMA 2323; PSYC 2301; SOCI 1301; SPCH 1318; TECA 1354

UNT Core: Discovery

One course chosen from: ARTS 1301; BIOL/HECO 1322; GEOG 1302 or 1303; HIST 2321 or 2322; PHIL 1301, 2303, or 2306; SPCH 1311 or 1315; TECA 1303

UNT Core: Capstone

This requirement will be met by fulfilling teacher certification requirements.

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.

B.A. Physics: Other Course Requirements

TCCNS options:

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 natural science 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 2402 or 2102/2302
- BIOL 1406 or 1106/1306
- BIOL 2406 or 2106/2306
- BIOL 1407 or 1107/1307
- BIOL 2420 or 2120/2320
- BIOL 1411 or 1111/1311
- GEOL 1401 or 1101/1301
- BIOL 1413 or 1113/1313
- GEOL 1403 or 1103/1303
- BIOL 2401 or 2101/2301

Substitutions in the BA or BS 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.

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Teach North Texas Program: Minor requirements

Students must complete the required 21 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 Humanities 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 2011-2012*.

For additional program and contact information see the College of Arts and Sciences Student Advising website:

<http://www.cas.unt.edu/advising>

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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 or 1313 | ENGL 1301 | TECM 2700 (recommended) or ENGL 1320 or 1323 | 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* (1 hr) | None |
| * Students must be admitted to the Teach North Texas Program prior to enrolling in certain Education courses. | | | | |

| 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: 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: U.S. History | See list of approved courses | UNT Core: U.S. History | See list of approved courses |
| | UNT Core: Political Science | See list of approved courses | UNT Core: Visual & Performing Arts | See list of approved courses |
| | Elective | 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) | |
| | B.A. Physics: Natural Sciences | | See list of approved courses | |