The College of Arts & Sciences 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. Students seeking secondary teacher certification should see requirements listed under "Teacher Certification".

The College of Arts and Sciences expects students to have completed the Texas State recommended high school program and be ready to enroll in a mathematics course above college algebra. 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: Humanities

- One course chosen from: ENGL 2321, 2322, 2323, 2326, 2327, 2328, 2331, 2332, 2333, 2341, 2342, 2343, 2351; HUMA 1301, 1302; PHIL 1301, 2303, 2306, 2316, or 2317

#### UNT Core: Social & Behavioral Sciences

- One course chosen from: ANTH 2346, 2351; CRIJ 1301; ECON 1301, 2301, 2302; GEOG 1302; HUMA 2323; PSYC 2301; SOCI 1301, 1306; TECA 1354

#### UNT Core: Understanding the Human Community

- Two courses chosen from:
  - Foreign Language (ARAB, CHIN, FREN, GERM, ITAL, JAPN, PORT, RUSS, SPAN): 1311/1411/1511, 1312/1412/1512, 2311,2312
  - ARTS 1303
  - BIOL/HECO 1322
  - BIOL 1323
  - COMM 1307
  - DANC 1305
  - DANC 1306
  - GEOG 1303
  - HIST 2321
  - HIST 2322
  - HUMA 2319
  - MUSI 1310
  - PHIL 1304
  - SOCI 2319
  - SOCI 2320
  - SPCH 1311
  - SPCH 1315
  - SPCH 1318
  - SPCH 1321
  - SPCH 2341
  - TECA 1303
  - TECA 1318

#### UNT Core: Natural Science

- Two courses chosen from: HIST 1301, 1302, 2301, 2327, 2328, 2381

#### UNT Core: U.S. History

- Two courses chosen from:
  - GOVT 2301 and 2302
  - GOVT 2305 and 2306

#### UNT Core: Political Science

- Two courses chosen from one of the following combinations:
  - GOVT 2301 and 2302
  - GOVT 2301 and 2305
  - GOVT 2301 and 2306
  - GOVT 2302 and 2306

#### UNT Core: Visual & Performing Arts

- One course chosen from: ARCH 1301, 1302; ARTS 1301 or 1304; COMM 2366; DRAM 1310, 2361, 2362, 2363, 2366, 2367; DANC 2303, 2304; HUMA 1315; MUSI 1306, 1307, 1308, 1309

### B.S. 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.*
College of Arts & Sciences

B.S. Physics—Option II, with Secondary Level Teacher Certification In Physical Science

2010-2011 Texas Common Course Numbering System Transfer Guide

B.S. Physics: Other Course Requirements

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

Required courses in Mathematics:
- MATH 2313 or 2413 or 2513,
- 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

Required courses in computer science:
- COSC 1315 or 1415

Additional requirements:
- 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.

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.

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 (Grades 8-12)

Exam #2 TExES: Physical Science

Additional requirements for Teacher Certification in Physical Science 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" in the Academics section of the UNT catalog and the College of Arts & Sciences requirements.

UNT Core Curriculum: Complies with the mandates of the 1997 Texas Legislature regarding requirements for state-assisted institutions. 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 2010-2011.

For additional program and contact information see the College of Arts and Sciences Student Advising website: http://www.cas.unt.edu/advising

http://essc.unt.edu/registrar/articulation/

Last Revised: January 7, 2011
### College of Arts & Sciences

**B.S. Physics—Option II, with Secondary Level Teacher Certification In Physical Science**

**2010-2011 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.

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<tr>
<th>Year</th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
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<tbody>
<tr>
<td>FRESHMAN</td>
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<tr>
<td></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
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<tr>
<td>ENGL 1310 or 1313</td>
<td>ENGL 1301</td>
<td>TECM 2700 (recommended) or ENGL 1320 or 1323</td>
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<td>CHEM 1410/1430</td>
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<td>MATH 2313 or 2413 or 2513</td>
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<td>PHYS 1710/1730</td>
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<tr>
<td>TNTX 1100* (1 hr)</td>
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<td>TNTX 1200* (1 hr)</td>
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* Students must be admitted to the Teach North Texas Program prior to enrolling in certain Education courses.

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<td>PHYS 3010/3030</td>
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<td>UNT Core: Social &amp; Behavioral Sciences</td>
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