## College of Science

**B.S. Physics—Option II, with Secondary Level Teacher Certification In Physical Science Grades (7-12)**

**2018-2019 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.

### Year | Fall Semester | Spring Semester
--- | --- | ---
**FRESHMAN** | **UNT Requirement** | **TCCNS Option** | **UNT Requirement** | **TCCNS Option**
ENGL 1310 | ENGL 1301 | TECM 2700 (recommended) or ENGL 1320 | 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: Component Area Option** | **See list of approved courses** | PHYS 1710/1730 | PHYS 2425 or 2325/2125
**TNTX 1100* (1 hr)** | None | TTX 1200* (2 hrs) | None

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

### Year | Fall Semester | Spring Semester
--- | --- | ---
**SOPHOMORE** | **UNT Requirement** | **TCCNS Option** | **UNT Requirement** | **TCCNS Option**
MATH 2730 | MATH 2315 or 2415 | MATH 2700 | MATH 2318 or 2418
PHYS 2220/2240 | PHYS 2426 or 2326/2126 | PHYS 3010/3030 | None
SCI 2305 | GOVT 2305 | PSCI 2306 | GOVT 2306
**UNT Core: Component Area Option** | **See list of approved courses** | **UNT Core: Social & Behavioral Sciences** | **See list of approved courses**
**EDCI 3500*** | None | **EDCI 4000*** | None

### Year | Fall Semester | Spring Semester
--- | --- | ---
**JUNIOR** | **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**
Elective (2 hrs) | Consult UNT advisor | Elective | Consult UNT advisor
CSCE 1020 | COSC 1315 or 1415 | PHYS 4950 | None
PHYS 3210 | None | PHYS 4110 | None
PHYS 3310 | None | PHIL 2600 (counts as Language, Philosophy & Culture | None
MATH 3410 | None | PHYS 4210 | None

### Year | Fall Semester | Spring Semester
--- | --- | ---
**SENIOR** | **UNT Requirement** | **TCCNS Option** | **UNT Requirement** | **TCCNS Option**
**UNT Core: Creative Arts** | Consult UNT advisor | **EDSE 4608*** (Student Teaching) | None
PHYS 4310 | None | **EDSE 4618*** (Student Teaching) | None
PHYS 4700 | None | **EDSE 4623*** (Student Teaching Seminar) | None
EDCI 4500* | None | **EDSE 4628*** (1 hr) (Student Teaching Seminar) | None

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Last Revised: May 7, 2018
### 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.

<table>
<thead>
<tr>
<th>UNT Core: Communication</th>
<th>UNT Core: Component Area Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1301; and ENGL 1302 or 2311</td>
<td>Complete two courses from Component Area Option A OR one course from Component Area Option A AND one course from Component Area Option B.</td>
</tr>
<tr>
<td>A grade of ‘C’ or better is required on courses applied toward this requirement.</td>
<td><strong>Option A:</strong> ANTH 2346, 2351, or 2401; ARTS 1301 or 1304; ASTR 1403 or 1404; BIOL 1408 or 1413, or 2406; COMM 1307; CRJ 1301; DRAM 1310; ECON 2301 or 2302; ENGL 1301, 1302, 2311, 2332, or 2333; HEDC 1322; GEOG 1303; GEGS 1401 or 1403; HIST 1301, 1302, 2321, or 2322; MATH 1316, 1324, 1325 or 1425, 1332, 1342 or 1442 or 2342 or 2442, 1350, 2305 or 2405, 2312 or 2412, 2313 or 2413 or 2513; MUSI 1306 or 1307; PHIL 1301, 1304, 2303, 2306, or 2316; PHYS 1403, 1404, 1410, or 1415; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1311, 1318 or 2341; TECA 1354</td>
</tr>
<tr>
<td><strong>Option B:</strong> SPCH 1311; TECA 1303</td>
<td></td>
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<tr>
<td>ENGL 2311 is recommended.</td>
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</tbody>
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<tr>
<th>UNT Core: Mathematics</th>
<th>UNT Core: Life &amp; Physical Sciences</th>
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<tbody>
<tr>
<td>This requirement will be met by fulfilling the B.S. Physics mathematics requirement (see next column).</td>
<td>This requirement will be met by fulfilling the B.S. Physics major requirements (see next page).</td>
</tr>
</tbody>
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<tr>
<th>UNT Core: American History</th>
<th>UNT Core: Social &amp; Behavioral Sciences</th>
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<tr>
<td>Two courses chosen from: HIST 1301, 1302, 2301</td>
<td>One course chosen from: ANTH 2346 or 2351; COMM 1307; CRJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354</td>
</tr>
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<tr>
<th>UNT Core: Government/Political Science</th>
<th>UNT Core: Component Area Option</th>
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<tr>
<td>GOVT 2305 and 2306</td>
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<th>UNT Core: Creative Arts</th>
<th>UNT Core: Language, Philosophy and Culture</th>
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<tbody>
<tr>
<td>One course chosen from: ARTS 1301 or 1304; DRAM 1310; MUSI 1306; SPCH 2341</td>
<td>This requirement will be met by fulfilling Teach North Texas Program requirements (see next page).</td>
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<tr>
<th>UNT Core: Social &amp; Behavioral Sciences</th>
<th>UNT Core: Component Area Option</th>
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<td>One course chosen from: ANTH 2346 or 2351; COMM 1307; CRJ 1301; ECON 2301 or 2302; GEOG 1303; PSYC 2301; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354</td>
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### 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, (fulfills both university mathematics core and major requirements)
- 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 B.A. or B.S. 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.

[http://registrar.unt.edu/transfer-guides](http://registrar.unt.edu/transfer-guides)
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 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 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 www.cos.unt.edu/advising.

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B.S. Physics: Major Requirements

- PHYS 2425 or 2325/2125
- PHYS 2426 or 2326/2126

(Also fulfills Life & Physical Sciences core requirement)

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

Teach North Texas Program: Minor Requirements

Students must complete the required 22 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 2.75 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 Language, Philosophy and Culture core and the Teach North Texas Program requirement.

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: Physical Science (6-12)

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.

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