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.

### College of Science

#### B.A. Physics

2018-2019 Texas Common Course Numbering System Transfer Guide

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<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
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<tr>
<td><strong>FRESHMAN</strong></td>
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<td>UNT Requirement</td>
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<td></td>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
<td>TECM 2700 (recommended) or ENGL 1320</td>
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<td></td>
<td>CHEM 1410/1430</td>
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<tr>
<td></td>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
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<td>UNT Core: Social &amp; Behavioral Sciences</td>
<td>See list of approved courses</td>
<td>PHYS 1710/1730</td>
</tr>
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</table>

| **SOPHOMORE**| UNT Requirement                    | Spring Semester                     | TCCNS Option                              |
|             | COS Core: Breadth Requirement      | Consult UNT advisor                 | COS Core: Breadth Requirement             |
|             | MATH 2730                          | MATH 2315 or 2415                    | PHYS 3010/3030                           |
|             | PHYS 2220/2240                     | PHYS 2426 or 2326/2126               | Elective                                  |
|             | PSCI 2305                          | GOVT 2305                           | PSCI 2306                                 |
|             | UNT Core: Component Area Option    | See list of approved courses         | UNT Core: Creative Arts                  |

| **JUNIOR**  | UNT Requirement                    | Spring Semester                     | TCCNS Option                              |
|             | UNT Core: American History         | See list of approved courses         | UNT Core: American History                |
|             | UNT Core: Language, Philosophy and Culture | See list of approved courses           | Elective                                  |
|             | B.A. Physics: Laboratory Science (may count as Component Area Option) | See list of approved courses           | Advanced PHYS Elective                    |
|             | Elective (advanced)                | Elective (advanced)                 | Elective (advanced)                       |
|             | Advanced PHYS Elective             | Advanced PHYS Elective               | None                                      |

| **SENIOR**  | UNT Requirement                    | Spring Semester                     | TCCNS Option                              |
|             | Advanced PHYS Elective             | Advanced PHYS Elective               | None                                      |
|             | Elective (advanced)                | Elective (advanced)                 | Elective (advanced)                       |
|             | Elective (advanced)                | Elective (advanced)                 | Elective (advanced)                       |
|             | Elective                           | Consult UNT advisor                 | Elective (advanced)                       |
|             | COS Core: Breadth Requirement      | Consult UNT advisor                 | COS Core: Breadth Requirement             |

http://registrar.unt.edu/transfer-guides

Last Revised: May 7, 2018
Students may not declare a major within the College of Science until they have completed MATH 1100 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 office for assistance.

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 Science encourages students to explore teaching at the secondary level as a career option. Students seeking secondary teacher certification should contact the Teach North Texas Program in the College of Science.

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.

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**UNT Core: Communication**

- 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: Life & Physical Sciences**

This requirement will be met by fulfilling the B.A. Physics major 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; SPCH 2341

**UNT Core: Language, Philosophy and Culture**

One course chosen from: ENGL 2332 or 2333; HIST 2321 or 2322; PHIL 1301, 1304, 2303, 2306, or 2316

**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; SOCI 1301; SOCW 2361; SPCH 1318; TECA 1354

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**UNT Core: Component Area Option**

One course for this requirement may be met by fulfilling the B.A. Physics major requirements (see column below). In addition, complete one course from Option A OR Option B.

**Option A:** ANTH 2346, 2351, or 2401; ARTS 1301 or 1304; ASTR 1403 or 1404; BIOL 1403 or 1413; or 2406; COMM 1307; CRIJ 1301; DRAM 1310; ECON 2301 or 2302; ENGL 1301, 1302, 2311, 2332, or 2333; GEOG 1303; GEOL 1401 or 1403; HIST 1301, 1302, 2301, or 2322; MATH 1316, 1324, 1325 or 1425, 1332, 1342 or 1422 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 1315, 1318 or 2341; TECA 1354

**Option B:** SPCH 1311; TECA 1303

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**College of Science: Breadth Requirement**

Students pursuing the Bachelor of Arts must complete four classes (minimum 3 hours each) from classes outside of the College of Science. These classes may not be simultaneously applied to University Core Curriculum requirements.

Students are encouraged to use these 12 hours to add value to their degree by applying them to a certificate, minor or second major that will support their goals, in consultation with the COS Office of Student Advising.

This requirement will be deemed complete for Bachelor of Arts students who attain 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. Students who graduated from a high school outside the United States at which English was not the primary language should ask the COS Office of Student Advising about eligibility for waiving this requirement.

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http://registrar.unt.edu/transfer-guides

Last Revised: May 7, 2018
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 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.

B.A. Physics

B.A. Physics: Other Course Requirements

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

Required courses in laboratory science:
Also fulfills Life & Physical Sciences and Component Area Option core (denoted with *) requirements.
- CHEM 1411 or 1311/1111
- CHEM 1412 or 1312/1112

Complete one of the following Natural/Life Sciences:
- ANTH 2401*
- BIOL 1406 or 1106/1306*
- BIOL 1407 or 1107/1307*
- BIOL 1408* or 1108/1308
- BIOL 2401 or 2101/2301
- BIOL 2402 or 2102/2302
- BIOL 2406 or 2106/2306
- GEOL 1401* or 1101/1301
- GEOL 1403* or 1103/1303

* Approved substitution

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 or engineering physics.

B.A. Physics: Major Requirements

Complete one of the following course groups:

1. PHYS 2425 or 2325/2125
2. PHYS 1401 (or 1301/1101) and PHYS 1402 (or 1302/1102)

Complete the following course: PHYS 2426 or 2326/2126

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