### College of Science

**B.S. Chemistry, Secondary Education Certification in Physical Science Grades (6-12)**

2019-2020 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](http://registrar.unt.edu/transfer-guides) 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.

UNT courses noted (#) do not have TCCNS equivalents, but have approved transferable substitutions.

### Year | Fall Semester | Spring Semester
--- | --- | ---
**Freshman** | | |
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| ENGL 1310 | ENGL 1301 | ENGL 1320 or TECM 2700 | ENGL 1302 or 2311 |
| CHEM 1410/1430 | CHEM 1411 or 1311/1111 | CHEM 1420/1440 | CHEM 1412 or 1312/1112 |
| TNTX 1100* (1 hr) | None | TNTX 1200* (2 hrs) | None |
| MATH 1710 | MATH 2313 or 2413 or 2513 | MATH 1720 | MATH 2314 or 2414 |
| UNT Core: Social & Behavioral Sciences | See list of approved courses | UNT Core: Creative Arts | See list of approved courses |

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

### Sophomore

| Year | Fall Semester | Spring Semester
--- | --- | ---
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| CHEM 2370/3210# | CHEM 2423 or 2323/2123 | CHEM 2380/3220# | CHEM 2425 or 2325/2125 |
| UNT Core: American History | See list of approved courses | UNT Core: American History | See list of approved courses |
| PHIL 2600 | None | MATH 2700 | MATH 2318 or 2418 |
| MATH 2730 | MATH 2315 or 2415 | PHYS 2220/2240 | PHYS 2426 or 2326/2126 |
| PHYS 1710/1730 | PHYS 2425 or 2325/2125 | PSCI 2305 | GOVT 2305 |

### Junior

| Year | Fall Semester | Spring Semester
--- | --- | ---
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| CHEM 3451/3452 | None | CHEM 3520/3240 | None |
| EDCI 3500* | None | PHYS 3010/3030 | None |
| CHEM 3510/3230 | None | CHEM 4700 | None |
| PSCI 2306 | GOVT 2306 | EDCI 4000* | None |

### Senior

| Year | Fall Semester | Spring Semester
--- | --- | ---
| UNT Requirement | TCCNS Option | UNT Requirement | TCCNS Option |
| Elective | Consult UNT advisor | CHEM 4620 | None |
| CHEM 4610 | None | EDSE 4608* (Student Teaching I) | None |
| CHEM (4000 level) | None | EDSE 4618* (Student Teaching II) | None |
| BIOC 4540 | None | EDSE 4628* (Student Teaching Seminar) (1 hr) | None |
| EDCI 4500* | None | EDSE 4628* (Student Teaching Seminar) (1 hr) | None |
| Elective | Consult UNT advisor | | |

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

Last Revised: May 2, 2019
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: American History
Two courses chosen from: HIST 1301, 1302, 2301

UNT Core: Communication
ENGL 1301 and ENGL 1302 or 2311
A grade of ‘C’ or better is required on courses applied toward this requirement.

UNT Core: Mathematics
This requirement will be met by fulfilling the B.S. Chemistry major mathematics requirement (see next column).

UNT Core: Life & Physical Sciences
This requirement will be met by fulfilling the B.S. Chemistry 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
This requirement will be met by fulfilling the Teach North Texas requirements (see next page).

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

UNT Core: Component Area Option
This requirement will be met by fulfilling the B.S. Chemistry major requirements (see next column).

B.S. Chemistry: Major requirements
- CHEM 1411 or 1311/1111
- CHEM 1412 or 1312/1112
- CHEM 2423 or 2323/2123 (approved substitution)
- CHEM 2425 or 2325/2125 (approved substitution)

CHEM 1411 and 1412 also fulfill the Life & Physical Sciences core requirement.

Advanced Chemistry Courses
No TCCNS options available.

Courses listed above are TCCNS options and do not include all courses required for the UNT B.S. Chemistry major.

B. S. Chemistry: Additional Course Requirements
- MATH 2313 or 2413 or 2513 (also fulfills the Mathematics core requirement)
- MATH 2314 or 2414
- MATH 2315 or 2415
- MATH 2318 or 2418
- PHYS 2425 or 2325/2125
- PHYS 2426 or 2326/2126

PHYS 2425 and 2426 also fulfill the Component Area Option core requirement.

Courses listed above are TCCNS options and do not include all courses required for the UNT Chemistry Major.

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

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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, is required for the Teach North Texas Program and will also fulfill the Language, Philosophy, and Culture core requirement.

Teacher Certification Information

To be certified to teach in the State of Texas, the student must successfully pass the following exams:

Exam #1   TEES: Pedagogy & Professional Responsibilities (EC-12)
Exam #2   TEES: 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.

Special Notes

Hours Required and General/College Requirements:
A minimum of 120 semester hours, of which 36 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 Sciences requirements

A GPA of 2.5 on all advanced courses attempted in science and engineering courses (biochemistry, biology, chemistry, computer science, engineering, mathematics, physics) is required.

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.