College of Arts & Sciences

B.S. Biology

Secondary Education Certification in Life Science
2011-2012 Texas Common Course Numbering System Transfer Guide

- Entering students interested in majoring in biology will be classified as pre-majors and will be advised by the department. Admission to the university does not guarantee admission to the major.
- To be admitted to the major (and be eligible to enroll in advanced biology courses), a pre-major must meet all the requirements listed in "Admission to the Major" below.
- The College of Arts and Sciences 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 Arts and Sciences.
- 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**
This requirement will be met by fulfilling the B.S. Biology English Composition & Rhetoric requirement (see next page).

**UNT Core: Mathematics**
This requirement will be met by fulfilling the B.S. Biology major mathematics requirement (see page two).

**UNT Core: Natural Science**
This requirement will be met by fulfilling the B.S. Biology major requirements (see page two).

**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 2305 and 2306
- GOVT 2301 and 2305
- 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 the Teach North Texas minor 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 Core:**

**Foreign Language (Option 1)**
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.

**Biology: Foreign Language (Option 2)**
Complete three courses from approved options at UNT. A student who wishes to fulfill the foreign language requirement by this option must first be counseled by an undergraduate advisor of the Department of Biological Sciences at UNT and must obtain written approval of Option II for B.S. Biology major for inclusion in the student's degree plan.

**B.S. Biology: Admission to the Major**
College Admissions Requirements: Entering transfer students interested in majoring in Biology must first apply to be a pre-major.

All of the following pre-major requirements must be completed to apply for the Biology major and take upper level courses.

- Complete at least 30 hours of college courses
- Have at least a 2.5 UNT GPA
- Have at least a 2.5 overall GPA (including all transferred courses)
- Have at least 2.5 GPA on required biology and chemistry courses listed below.
- College of Arts & Sciences Core Mathematics Requirement, choose one from: Math 2312 or 2412 with a grade of C or better.
- College of Arts & Sciences Core Laboratory Sciences: BIOL 1406 or 1106/1306, BIOL 1407 or 1107/1307 and two selections from BIOL 2321 & BIOL 2121 or 2421, 2140 (UNT only), 2241 (UNT only), 2251 (UNT only), each with a grade of C or better.
- College of Arts & Sciences Core Laboratory Sciences: BIOL 1406 or 1106/1306, BIOL 1407 or 1107/1307 and two selections from BIOL 2321 & BIOL 2121 or 2421, 2140 (UNT only), 2241 (UNT only), 2251 (UNT only), each with a grade of C or better.
- Chemistry: CHEM 1411 or 1311 & 1111, 1412 or 1312 & 1112, and 2423 or 2123/2323 (approved substitution) each with a grade of C or better.
- A grade of C or higher is required for all science and mathematics courses.
B.S. Biology: English Composition & Rhetoric

ENGL 1301 and 2311

A grade of 'C' or better is required on courses applied toward this requirement.

ENGL 2311 is required for Biology majors however, students who have completed ENGL 1302 prior to attending UNT may substitute this course for ENGL 2311.

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 available only at UNT is required for the Teach North Texas Program and will also fulfill the UNT Core Humanities requirement.

Secondary Education Certification in Life Science (Grade 8-12)

TCCNS Options:

Biology requirements:
- BIOL 1406 or 1106/1306
- BIOL 1407 or 1107/1307
- BIOL 2421 or 2321/2121

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

Mathematics requirements:
- MATH 1342 or 1442 or 2313 or 2413 or 2513 (fulfills both Mathematics core and program requirements)

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

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: Life Science (Composite)(8-12)

Additional requirements for Teacher Certification in Biology include a 2.5 overall GPA (including all transferred courses), a 2.5 UNT GPA and a 2.5 major GPA.

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 and 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:
www.cas.unt.edu/advising

http://essc.unt.edu/registrar/articulation/
### College of Arts & Sciences

**B.S. Biology**  
**Secondary Education Certification in Life Science**  
**2011-2012 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.

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td></td>
<td>BIOL 1710/BIOL 1730</td>
<td>BIOL 1406 or 1106/1306</td>
</tr>
<tr>
<td></td>
<td>CHEM 1410/CHEM 1430</td>
<td>CHEM 1411 or 1111/1311</td>
</tr>
<tr>
<td></td>
<td>ENGL 1310</td>
<td>ENGL 1301</td>
</tr>
<tr>
<td></td>
<td>MATH 1710</td>
<td>MATH 2313 or 2413 or 2513</td>
</tr>
<tr>
<td></td>
<td>TNTX 1100* (1 hr)</td>
<td>None</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOPHOMORE</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td></td>
<td>CHEM 2370/3210#</td>
<td>CHEM 2423 or 2323/2123</td>
</tr>
<tr>
<td></td>
<td>EDSE 3500*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>BIOL 2041 &amp; 2042</td>
<td>BIOL 2421 or 2321/2121</td>
</tr>
<tr>
<td></td>
<td>Biology course (2000 level)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>PHYS 1510 &amp; 1530</td>
<td>None</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JUNIOR</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td></td>
<td>UNT Core: U.S. History</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>UNT Core: Political Science</td>
<td>See list of approved courses</td>
</tr>
<tr>
<td></td>
<td>Foreign Language 2040</td>
<td>Foreign Language 2311</td>
</tr>
<tr>
<td></td>
<td>BIOL 3451/3452</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>BIOL 3510/3520</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SENIOR</strong></td>
<td>UNT Requirement</td>
<td>TCCNS Option</td>
</tr>
<tr>
<td></td>
<td>Biology (advanced)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>EDSE 4500*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BIOC 3621 &amp; 3622</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Research Methods for Secondary Education Instruction course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHIL 2600</td>
<td></td>
</tr>
</tbody>
</table>

[http://essc.unt.edu/registrar/articulation/](http://essc.unt.edu/registrar/articulation/)