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|  | **Degree Requirements Checklist**  **Bachelor of Science in Biology leading to Life Science Certification**  **2012-2013 Catalog**  *This program is designed to fulfill the course requirements for certification as a secondary school teacher in Texas, but completion of the program does not guarantee the student’s certification. This checklist has been created as a guideline and is not considered to be an official document. For further information about meeting degree and additional certification requirements, contact the TNT adviser.* |

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| I. UNIVERSITY CORE AND COLLEGE REQUIREMENTS | Hours |
| English Composition & Rhetoric:  ENGL 1310 (1301) or TECM 1700 +  TECM 2700 [ENGL 1320\* (1302)]  *\*ENGL 1320 can be substituted for the TECM 2700 requirement ONLY if taken prior to becoming a Biology major at UNT.*  US History:  HIST 2610 (1301) +  HIST 2620 (1302)    Political Science:  PSCI 1040 (GOVT 2301) +  PSCI 1050 (GOVT 2302)  Humanities:  PHIL 2600\* - Ethics in Science (specific TNT section)  *\*This course is part of the TNT minor sequence and counts towards both requirements. Please see the TNT advisor if you have taken the non-TNT sequence PHIL 2600. Additional requirements must be meet state teaching certification requirements*  Social and Behavioral Sciences: Any course listed under “meets the core standard” in the course catalog  Visual/Performing Arts: Any course listed under “meets the core standard” in the course catalog  Foreign Language: Complete one of two options to satisfy the College of Arts and Sciences requirement.  Option I: Attain Intermediate II level 2050 (2312) in a foreign language or pass proficiency exam.  Option II: Complete one (3 hours) advanced technical writing course. Six hours of student teaching will fulfill remaining requirements. Must obtain written Biology department approval.  Discovery: Any course listed under “meets the core standard” in the course catalog  Capstone: EDSE 4618\* Apprentice Teaching II in Math & Science  *\*Course is part of the TNT minor sequence and count towards both requirements. See minor requirements.* | 6  6  6  (3)\*  3  3  3  3  (3)\* |
| II. Major Requirements/ Life Science Core Courses: A minimum grade of C is required in all lower-division courses in biology and chemistry. A GPA of at least 2.5 is required for all upper-division hours in science. |  |
| Mathematics:  MATH 1710 (2413/2513)  Physics:  PHYS 1510/1530 +  PHYS 1520/1540  *\*Students who completed PHYS 1410/1430 (1401) and/or PHYS 1420/1440 (1402) prior to joining Teach North Texas are eligible for*  *departmental substitution by consulting a faculty advisor in the Department of Biological Sciences.*  Chemistry:  CHEM 1410/1430 (1411)  CHEM 1420/1440 (1412)  CHEM 2370/3210  CHEM 2380/3220  Biology:  BIOL 1710/1730 (1406)  BIOL 1720/1740 (1407)  BIOL 2041/2042 (2421)  BIOL 2140 OR 2241 OR 2251    Additional biology courses:   1. BIOL 3451/3452 + 3510/3520 + BIOC 3621/3622 + One of the following: BIOL 3800/3810 (recommended) or BIOL 4501/4502 or   BIOL 4505/4506 or BIOL 4503/4504   1. At least one additional course from the following list:   BIOL 3160 (3), BIOL 4070 (4), BIOL 4100 (3), BIOL 4380 (3), BIOL 4440 (4), or BIOL 4650 (6)   1. Additional 6 hours of advanced electives in biology (choose from eligible biology courses, see course catalog) 2. BIOL 4700 Research Methods | 4  8  16  15  28 |
| III. Minor in Mathematics and Science Secondary Teaching | 21 |
| □ TNTX 1100: STEP 1, Inquiry Approaches to Teaching □ EDSE 4500 Project-Based Instruction  □ TNTX 1200: STEP 2, Inquiry-Based Lesson Design □ EDSE 4608 and 4618\* Apprentice Teaching I & II in Math &  □ EDSE 3500 Knowing and Learning in Math and Science Science (see Core Requirements)  □ EDSE 4000 Classroom Interactions □ EDSE 4628 Apprentice Teaching Seminar  □ PHIL 2600\* Ethics in Science (see Core Requirements) |
| Total hours to meet BIOL degree requirements; including College of Arts & Science degree requirements. | 101 |
| Professional Development Sequence | 21 |
| Total Hours to Complete Degree | 122 |

SAMPLE 4-YEAR COURSE PLAN

BS in Biology leading to Life Science Certification

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| Sample 4-year course plan, BS in Biology leading to Life Science Certification | | | |
| Fall Semester | | Spring Semester | |
| BIOL 1710/1730, Principles of Biology I + Lab  CHEM 1410/1430, General Chemistry I + Lab  ENGL 1310, College Writing I  MATH 1710, Calculus I  TNTX 1100, STEP 1: Inquiry Approaches to Teaching | 4  4  3  4  1  **16** | BIOL 1720/1740, Principles of Biology II + Lab  CHEM 1420/1440, General Chemistry II + Lab  ENGL 2700, Technical Writing  Discovery Core  TNTX 1200, STEP 2: Inquiry-Based Lesson Design | 4  4  3  3  1  **15** |
| BIOL 2041/2042, Microbiology + Lab  CHEM 2370/3210, Organic Chemistry + Lab  PHYS 1510/1530 General Physics I + Lab  BIOL 2140, Ecology  EDSE 3500, Knowing and Learning in Mathematics and Science | 4  4  4  3  3  **18** | BIOL 3451/3452, Genetics + Lab  CHEM 2380/3220, Organic Chemistry + Lab  PHYS 1520/1540 General Physics II + Lab  PHIL 2600, Ethics in Science  LANG 2050, Foreign Language or Option course | 4  4  4  3  3  **18** |
| PSCI 1040, American Government  EDSE 4000, Classroom Interactions  BIOL, Field Course option  Visual and Performing Arts Core  BIOC 3621/3622, Elementary Biochemistry + Lab | 3  3  3  3  4  **16** | BIOL 3510/3520, Cell Biology + Lab  PSCI 1050, American Government  BIOL 4700, Research Methods  HIST 2610, US History to 1865  BIOL, advanced elective | 4  3  3  3  3  **16** |
| BIOL, advanced elective  Social and Behavioral Sciences Core  EDSE 4500, Project-Based Instruction  HIST 2620, US History since 1865  BIOL, Physiology Option | 3  3  3  3  4  **16** | EDSE 4608 and 4618, Apprentice Teaching I & II  in Math & Science  EDSE 4628, Apprentice Teaching Seminar | 6  1  **7** |

**Total Hours: 122**

**Advanced hours must total 42 and a minimum of 120 earned hours are required. Minimum gpa requirements are in force (2.5 overall, 2.5 UNT, 2.5 major concentration, 2.5 minor concentration, 2.5 advanced science hours) for graduation with Teacher Certification.**

**All students seeking secondary level teacher certification must be admitted to UNT’s Teacher Education program. Admission to teacher education requirements follow:**

**~THEA exam scores (Texas Higher Education Assessment) of 240 or above in reading, 230 or above in mathematics, and 220 or above in writing*.* Information regarding the THEA exam can be found at the following website:** [**www.thea.nesinc.com**](http://www.thea.nesinc.com)**. Allowable exemptions to the THEA exam include SAT (minimum combined verbal and mathematics 1070 with a minimum of 500 in verbal and 500 in mathematics) or ACT (23 composite with minimum 19 in English and 19 in Mathematics) exams taken within 5 years of Teacher Education application, or TAKS scores (minimum 2200 in Mathematics and 2200 in English with a writing subscore of 3 or higher) taken within 3 years of Teacher Education application.**

**~Junior Standing (minimum of 60 earned hours)**

**~2.5 overall gpa**

**~2.5 UNT gpa**

**~Official degree plan on file (admission to major status)**

**~Teacher Education application**

**~State-required interview**

**Please see TNT advisor to complete application process. Continued enrollment in advanced education minor courses will be blocked until admission in obtained.**