### Bachelor of Science in Education

### Biology – 124 Hours

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| Student:  |
| Advisor:  |

### TCU CORE CURRICULUM – 39 hours

###### Human Experiences and Endeavors

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| **Humanities - 9 hours** | **Substitution** | **Gr** | **Hr** |
| Religion **(RT)** |  |  |  |
| English Literature **(LT)** |  |  |  |
| English Literature |  |  |  |
| **Social Sciences -9 hours** |  |  |  |
| HIST 10603 **(HT)**  |  |  |  |
| HIST 10613 |  |  |  |
| POSC 10133 Am&Tx Government **(CSV)**  |  |  |  |
| **Natural Sciences - 6 hours** |  |  |  |
| BIOL 20204 suggest NTDT 10003 or  |  |  |  |
| Lab Science PHYS 10273 for **(GA)**  | **(see major)** |  |  |
| **Fine Arts - 3 hours**  |  |  |  |
|  |  |  |  |
| **TOTAL HOURS** |  |  |  |

###### Essential Competencies

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| **Mathematical Reasoning - 3 hours from:** | **Substitution** | **Gr** | **Hr** |
| MATH 10033 Topics in MathMATH 10043 Elementary StatisticsMATH 10524 Calculus IMATH 20524 Calculus II | **(see major)** |  |  |
| **Oral Communication - 3 hours from:** |  |  |  |
| COMM 10123 Basic Speech Comm COMM 10133 Business & Prof Speaking |  |  |  |
| **Written Communication - 6 hours** |  |  |  |
| ENGL 10803 Introductory Comp ENGL 20803 Intermediate Comp |  |  |  |
| **Writing Emphasis:** EDUC 30013 & 50553 |  |  |  |
| **TOTAL HOURS** |  |  |  |

###### Secondary School Education - 37 semester hours

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| *Pre-Admission to COE: 9 hours* | **Substitution** | **Gr** | **Hr** |
| EDUC 20003 CI: Teaching & Learning  |  |  |  |
| EDUC 41113 Schools, Curr, & Society |  |  |  |
| EDSE 30103 Developmental Psychology of Adolescence |  |  |  |
|  |  |  |  |
| *Junior Year: 14 hours* |  |  |  |
| EDUC 30113 Digital Literacy & Citizenship |  |  |  |
| EDUC 30123 Educational Psychology |  |  |  |
| EDUC 30603 Study of Exceptional Students |  |  |  |
| EDUC 40213 Promoting Literacy |  |  |  |
| EDSE 41151 Field Experience |  |  |  |
| EDSE 41151 Field Experience |  |  |  |
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| *Senior Year/ Semester 1: 8 hours* |  |  |  |
| EDUC 50663 Motivating & Managing |  |  |  |
| EDSE 51103 Assessment |  |  |  |
| EDSE 30001 Professional Practice Seminar |  |  |  |
| EDSE 41151 Field Experience |  |  |  |
|  |  |  |  |
| *Senior Year/Semester 2: 6 hours* |  |  |  |
| EDSE 40986 Student Teaching **-** **6** hrs rqrd*Student Teaching is a 12 week full time experience so students should plan to have all other coursework completed prior to entering the student teaching semester.* |  |  |  |
| **TOTAL HOURS**  |  |  |  |

 **Major: Biology**

 **47-49 semester hours**

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| **Course #** | **Substitution** | **Gr** | **Hr** |
| BIOL 10003 Contemporary Issues Biology  |  |  |  |
| BIOL 10504 Introduction to Biology I |  |  |  |
| BIOL 10514 Introduction to Biology II |  |  |  |
| BIOL 30403 Ecology & Environment |  |  |  |
| BIOL 30603 Cellular Molecular & Dev Biol |  |  |  |
| BIOL 20233 Basic Microbiology |  |  |  |
| BIOL 30703 Plant Systematics |  |  |  |
| BIOL 30613 Natural History  |  |  |  |
| MATH 10524 Calculus IorMATH 20524 Calculus II |  |  |  |
| CHEM 10113 General Chemistry andCHEM 10125 General Chemistry  |  |  |  |
| Select TWO courses from the following: |  |  |  |
| BIOL 20204 Anatomy & Physiology BIOL 40313 Biogeography |  |  |  |
| BIOL 50246 (2 sem) Biodiversity |  |  |  |
| BIOL 40443 Environmental Biology |  |  |  |
| BIOL 30233 Economic Botany |  |  |  |
| BIOL 30404 Comparative Vertebrate Anat |  |  |  |
| EDSE 50553 Secondary Science Methods |  |  |  |
| **TOTAL HOURS** |  |  |  |

 **Electives to complete the 124 requirement**

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| **Course #** | **Substitution** | **Gr** | **Hr** |
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| **TOTAL HOURS** |  |  |  |

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| --- | --- | --- | --- | --- |
| Hours | **Required** | **Completed** |  **In** **Progress** |  **Needed** |
| CORE | 39 |  |  |  |
| Education | 22 |  |  |  |
| Associated |  12 |  |  |  |
| Major | 47-49 |  |  |  |
| Electives |  |  |  |  |
|  TOTAL | 124 |  |  |  |

For graduation, TCU requires 58 hours of course work taken in residency

 **(60 for honors) and 42 hours in advanced courses numbered 30000 or above.**

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| --- | --- | --- | --- | --- |
| Residency | 58 |  |  |  |
| Upr Div Hrs | 42 |  |  |  |

 € Religious Traditions (RT) 3 hrs

 € Historical Traditions (HT) 3 hrs

 € Literary Traditions (LT) 3 hrs

 € Cultural Awareness (CA) 3 hrs – at TCU only

 € Global Awareness (GA) 3 hrs – at TCU only

 € Citizenship and Social Values (CSV) 3 hrs – at TCU only

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