

**Bachelor of Science in Education
Secondary School Chemistry – 124 hours**

Student: _____

Advisor: _____

TCU CORE CURRICULUM – 39 hours

Human Experiences and Endeavors

Humanities - 9 hours	Substitution	Gr	Hr
Religion (RT)			
English Literature (LT)			
English Literature/HUM			

Social Sciences -9 hours

HIST10603 (HT)			
HIST 10613			
POSC 10133 Am&Tx Government (CSV)			

Natural Sciences - 6 hours

Lab Science	(see major)		
Lab Science	(see major)		
Fine Arts - 3 hours			

Essential Competencies

Mathematical Reasoning - 3 hours from:	Substitution	Gr	Hr
MATH 10033 Topics in Math	(see major)		
MATH 10043 Elementary Statistics			
MATH 10524 Calculus I			
MATH 20524 Calculus II			

Oral Communication - 3 hours from:

COMM 10123 Basic Speech Comm			
COMM 10133 Business & Prof Speaking			
COMM 20133 Instructional Comm			

Written Communication - 6 hours

ENGL 10803 Introductory Comp			
ENGL 20803 Intermediate Comp			
Writing Emphasis: EDMS 30013			
TOTAL HOURS			

School Education - 40 semester hours

<i>Pre-Admission to COE: 9 hours</i>	Substitution	Gr	Hr
EDUC 20003 CI: Teaching & Learning			
EDUC 30013 Professional Roles (CSV)			
EDSE 30103 Developmental Psychology of Adolescence			

Junior Year: 17 hours

EDUC 30603 Study of Exceptional Students			
EDUC 30123 Educational Psychology			
EDUC 40213 Literacy in Content Subjects			
EDUC 30113 Digital Literacy & Citizenship			
EDSE 50553 Secondary Science Methods			
EDSE 41151 Field Experience			
EDSE 41151 Field Experience			

Senior Year/Semester 1: 8 hours

EDUC 50663 Motivating & Managing			
EDSE 51103 Assessment			
EDSE 41151 Field Experience			
EDSE 30001 Professional Practice Seminar			

Senior Year/Semester 2: 6 hours

EDSE 40986 Student Teaching - a 14 week full time experience; students should plan to have all other coursework completed prior to entering the student teaching semester.			
TOTAL HOURS			

**Major: Secondary School Chemistry
40 semester hours**

Course #	Substitution	Gr	Hr
CHEM 10113 General Chemistry I			
CHEM 10123 (or 10125) Gen. Chem II			
CHEM 20123 Quantitative Analysis			
CHEM 30121 Organic Chemistry Lab			
CHEM 30123 Organic Chemistry			
CHEM 40123 Physical Chemistry			
CHEM 40121 Physical Chemistry Lab			
CHEM 40091 Senior Seminar			
CHEM 40200 Undergraduate Research (3 hours)			
Upper Level CHEM course elective			
Upper Level CHEM course elective			
PHYS 10154 Physics I + Lab			
PHYS 10164 Physics II + Lab			
MATH 10524 Calculus I			

Electives to complete the 124 hour requirement

Course #	Substitution	Gr	Hr
TOTAL HOURS			

Hours	Required	Completed	In Progress	Needed
CORE	39			
Education	22			
Major	37			
Electives				
TOTAL	124			

2019-2020 catalog

For graduation, TCU requires 58 hours of course work taken in residency (60 for honors) and 42 hours in advanced courses numbered 3000 or above.

Residency	58			
Upr DivHrs	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