

CHEMISTRY WITH TEACHER CERTIFICATION, BACHELOR OF SCIENCE

Requirements

Code	Title	Credits
Core Curriculum		
ENGL 1301	Composition I ¹	3
ENGL 1302	Composition II ¹	3
MATH 2313	Calculus I ¹	3
CHEM 1311	General Chemistry I ^{1,3}	3
CHEM 1312	General Chemistry II ^{1,3}	3
Lang/Phil/Culture		3
Creative Arts		3
American History		3
American History		3
Government/Political Science		3
Government/Political Science		3
Social & Behavioral Sciences		3
CHEM 1111	General Chemistry Lab I ^{1,3}	1
CHEM 1112	General Chemistry Lab II ^{1,3}	1
PHYS 1101	General Physics Lab I	1
UNIV 1301	First Year Seminar	3
Subtotal:		42
Required Support Courses		
MATH 2113	Calculus I Lab	1
PHYS 1301 & PHYS 1101	General Physics I and General Physics Lab I	4
PHYS 1302 & PHYS 1102	General Physics II and General Physics Lab II	4
Subtotal:		9
Major (Required) Courses ^{2,3}		
CHEM 2323 & CHEM 2123	Organic Chemistry I and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II and Organic Chemistry II Lab	4
CHEM 3331 & CHEM 3131	Quantitative Analysis and Quantitative Analysis Lab	4
CHEM 3300 & CHEM 3100	Physical Chem for Life Sci and Physical Chem for Life Sci Lab	4
CHEM advanced electives		16
Subtotal:		32
Teacher Certification Required Courses ^{2,4}		
EDCI 3303	Pedagogy I: Theory & Design	3
EDSE 3345	Survey of Exceptional Individuals	3
EDCI 4311	Teaching and Pedagogy for Middle School and Secondary Teachers	3
EDCI 3358	Classroom Management: Middle and Secondary Level Teachers	3
EDCI 3309	Educator Roles & Responsibilities	3
EDRG 4325	Disciplinary & Content Area Lit	3

EDFR 3110	Field Lab Residency I	1
EDFR 4623	Scndry Clinic Tch:Fld Res III	6
Subtotal:		25
Electives		12
As needed to complete 120 credit hours		
Total Credits		120

¹ An earned letter grade of C is required for this degree

² 2.75 overall GPA

³ 'C' or higher required in CHEM courses

⁴ 'C' or higher required in EDXX courses

Completion of 45 hours; all with a 'C' or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

Code	Title	Credits
ENGL 1301	Composition I	3
ENGL 1302	Composition II	3
MATH 1314	College Algebra (or higher)	3
HIST 1301	US History to 1865	3
HIST 1302	US History from 1865	3
2 Life & Physical Sciences		

ESL Endorsement Option

Requires students to complete an additional 9 hours by taking EDBL 3315 Second Language Acquisition and Literacy for English Language Learners, EDBL 3340 Applied Linguistics, and EDBL 3321 Mthd Teach Eng to Non-Eng Chld.

Plan of Study

First Year		Credits
First Semester		
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry Lab I	1
ENGL 1301	Composition I	3
UNIV 1301	First Year Seminar	3
MATH 2312	Pre-Calculus	3
GOVT 2305	Federal Government	3
Credits		16
Second Semester		
CHEM 1312	General Chemistry II	3
CHEM 1112	General Chemistry Lab II	1
ENGL 1302	Composition II	3
MATH 2313	Calculus I	3
MATH 2113	Calculus I Lab	1
GOVT 2306	Texas Government	3
Credits		14
Third Semester		
HIST 1301	US History to 1865	3
HIST 1302	US History from 1865	3
Credits		6
Second Year		
First Semester		
CHEM 2323	Organic Chemistry I	3

CHEM 2123	Organic Chemistry I Lab	1
PHYS 1301	General Physics I	3
PHYS 1101	General Physics Lab I	1
Language/Philosophy/Culture		3
Social & Behavioral Science		3

Credits **14**

Second Semester

CHEM 2323	Organic Chemistry I	3
CHEM 2123	Organic Chemistry I Lab	1
PHYS 1302	General Physics II	3
PHYS 1102	General Physics Lab II	1
Creative Arts		3
EDCI 3303	Pedagogy I: Theory & Design	3

Credits **14**

Third Semester

EDSE 3345	Survey of Exceptional Individuals	3
EDCI 3309	Educator Roles & Responsibilities	3

Credits **6**

Third Year**First Semester**

CHEM 3331	Quantitative Analysis	3
CHEM 3131	Quantitative Analysis Lab	1
Advanced CHEM Elective		3-4
Advanced CHEM Elective		3-4
EDCI 4311	Teaching and Pedagogy for Middle School and Secondary Teachers	3

Credits **13-15**

Second Semester

EDCI 3358	Classroom Management: Middle and Secondary Level Teachers	3
CHEM 3300	Physical Chem for Life Sci	3
CHEM 3100	Physical Chem for Life Sci Lab	1
Advanced CHEM Elective		3-4
Advanced CHEM Elective		3-4

Credits **13-15**

Fourth Year**First Semester**

EDRG 4325	Disciplinary & Content Area Lit	3
EDFR 3110	Field Lab Residency I	1
Advanced CHEM Elective (as needed)		3-4
Electives		6

Credits **13-14**

Second Semester

EDFR 4623	Secondary Clinic Teaching: Field Res III	6
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Credits **6**

Total Credits **115-120**