Bachelor of Science

Biochemistry with a Major in Secondary Chemistry Education (6-12) (BS)

Degree Program Guide

Course	Title	Credit Hours
Freshman		
Fall		
ENGL 110C	English Composition (Grade of C or better required)	3
MATH 163	Precalculus II	3
CHEM 121N and CHEM 122N		4
BIOL 121N and BIOL 122N		4
STEM 101	Step 1 – Inquiry Approaches to Teaching STEM	1
CHEM 160G	Introduction to Chemistry and Biochemistry Research and Careers	3
	Credit Hours	18
Spring		
Select one of the following:		3
ENGL 211C	Writing, Rhetoric, and Research	
ENGL 231C	Writing, Rhetoric, and Research: Special Topics	
MATH 211	Calculus I	4
CHEM 123N and CHEM 124N	or CHEM 125	4
BIOL 123N and BIOL 124N		4
STEM 102	Step 2 - Inquiry Based STEM Lesson Design	1
	Credit Hours	16
Sophomore		
Fall		
CHEM 211 and CHEM 212		5
MATH 212	Calculus II	4
COMM 101R	Public Speaking	3
STEM 201	Knowing and Learning in STEM Education	3
Human Creativity		3
	Credit Hours	18
Spring		
CHEM 213 AND CHEM 214 or CHEM 216		5
STEM 202	Classroom Interactions in STEM Education	3
Literature		3
Philosophy and Ethics		3
	Credit Hours	14

Junior

Fall

	Total Credit Hours	129
	Credit Hours	13
STEM 485	Apprentice Teaching	9
CHEM 333	Physical Chemistry Lecture II	3
CHEM 485	Chemistry and Biochemistry Seminar	1
Spring	Creat Hodis	15
	Credit Hours	15
Impact of Technology	Maniemanes and Science	3
CHEM 468	Research Methods in Mathematics and Science	3
BIOL 294	Genetics	3
CHEM 443	Intermediate Biochemistry	3
CHEM 331	Physical Chemistry Lecture I	3
Fall		
Senior		
	Credit Hours	17
STEM 402	Perspectives on STEM	3
Human Behavior: GEOG 101S	octor requireu))	3
CHEM 442W	Biochemistry Laboratory (C or better required))	4
PHYS 232N	University Physics II	4
CHEM 441	Biochemistry Lecture	3
Spring	Cituit Hours	10
interpreting the Fast	Credit Hours	18
Interpreting the Past	STEM Education	3
STEM 401	Project Based Instruction in	3
BIOL 293	Cell Biology	3
PHYS 231N	University Physics I	4
CHEM 321 and CHEM 322		5
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Language and Culture I & II may be met in high school and are not included in this 4-year plan. Please see requirement details.