

The University of South Dakota
Major Credit Hour count: 69
Major: Chemistry - American Chemical Society, B.S.



[2019-2020 Academic Catalog]

<u>Year / Semester</u>	SGR/Major Requirement	<u>Cr Hrs</u>	<u>Year / Semester</u>	SGR/Major Requirement	<u>Cr Hrs</u>
<u>First Year - 1st Semester</u>			<u>First Year - 2nd Semester</u>		
ENGL 101 Composition I	SGR1	3	ENGL 210 Introduction to Literature	BS	3
CHEM 112 General Chemistry I or CHEM 116	SGR6 + M	4	CHEM 114 Gen Chem II or CHEM 332	SGR6 + M	4
MATH 123 Calculus	SGR 5+M	5	MATH 125 Calculus II	Major	5
SPCM 101 Fundamentals of Speech	SGR 2	3	Social Science	SGR 3	3
Semester Credit Hours: 15			Semester Credit Hours: 15		
<u>Second Year - 1st Semester</u>			<u>Second Year - 2nd Semester</u>		
CHEM 326/326L Organic Chemistry	Major	5	CHEM 328/328L Organic Chemistry II	Major	4
PHYS 211/211L University Physics I	Major+BS	5	Elective or CHEM 498 Undergraduate Research	Major	1
Fine Arts	SGR 4	3	PHYS 213/213L University Physics II	Major	5
MATH (Advanced) or PHYS (Advanced)	BS+M	3	CHEM 330 Structure & Function of Biomolecules	Major	3
Semester Credit Hours: 16			Semester Credit Hours: 16		
<u>Third Year - 1st Semester</u>			<u>Third Year - 2nd Semester</u>		
CHEM 442 Physical Chemistry I	Major	3	CHEM 442L Physical Chemistry I Lab	Major	1
Elective		3	CHEM 444 Physical Chemistry II	Major	3
Minor	BS	6	CHEM 332 Analytical Chem or Elect.	Major	3
Humanities	SGR4	3	Social Science	SGR3	3
Semester Credit Hours: 15			Semester Credit Hours: 16		
<u>Fourth Year - 1st Semester</u>			<u>Fourth Year - 2nd Semester</u>		
CHEM 434/434L Instrumental Analysis	Major	4	CHEM 429/429L Adv. Chem Charact.	Major	3
CHEM 452 Inorganic Chemistry	Major	4	CHEM 474 Chemical Lit Seminar II	Major	1
CHEM 472 Chemical Literature Seminar I	Major	2	Minor	BS	6
CHEM 498 Undergraduate Research	Major	1	Additional Social Science/Humanities	BS	3
Minor	BS	3	Semester Credit Hours: 13		
Semester Credit Hours: 14			Semester Credit Hours: 13		
					Total Major Requirements 120

Notes: *The Chemistry Coordinate major is designed for double majors or students on the pre-medical or pre-professional school track.