



BLACK HILLS
STATE UNIVERSITY

Major: **Chemistry**
2022-2023 - Status Sheet

Minor: **Biology**
Degree: **Bachelor of Science**

120 hours are required to graduate _____
36 hours of upper level are required _____

Exit Exam: _____

BBS.CHM
Prepared by:
Phone #:
Date:

NAME: _____

		Has		Needs	
		100	300	100	300
Gen Ed Requirements		200	400	200	400
3	ENGL 101 Composition I				
3	ENGL 201 Composition II				
3	CMST 101 215 222				
3	MATH (see major)				
3-5	Natural Science & Lab (see major)				
3-5	Natural Science & Lab (see major)				

SOCIAL SCIENCE: take 2 courses from two different subject areas.
ARTS & HUMANITIES: take 2 courses from two different subject areas (ART/H) are the same subject), or a Foreign Language Sequence.

Social Science - 2 courses required		Has		Needs	
		100	300	100	300
		200	400	200	400
ABS 203	ANTH 210, 220, 230 CJUS 201				
CMST 201	ECON 201, 202 GEOG 101, 200, 210, 212, 219 GLST 201 HDFS 141, 210				
HIST 151, 152, 256, 257	INED 211 INFO 102				
NATV 110	POLS 100, 102, 141, 165, 210, 250, 253 PSYC 101 REL 237 SOC 100, 150, 151, 240, 250, 285 CMST 201 SUST 201 UHON 111, 210 WMST 101, 247				

Arts & Humanities - 2 courses required		Has		Needs	
		100	300	100	300
		200	400	200	400
ARAB 101, 102	ARCH 241 ART 111, 112, 121, 123 ARTH 100, 120, 121, 211, 212, 231, 251 CHIN 101, 102 ENGL 115, 125, 210, 211, 212, 214, 221, 222, 230, 240, 241, 242, 248, 249, 250, 256, 258, 268 FREN 101, 102, 201, 202 GER 101, 102, 201, 202 GFA 101				
GREE 101, 102	HIST 111, 112, 121, 122				
HUM 100 200	LAKL 101, 102, 201, 202 LATI 101, 102 MCOM 151, 160 MFL 101, 102				
MUS 100, 117, 130, 131, 200, 201, 203, 240	PHIL 100, 200, 215, 220, 233, 240, 270, 287				
REL 213, 224, 225, 238, 250	RUSS 101, 102				
SPAN 101, 102, 201, 202	THEA 100, 131, 200, 201, 231, 270				

Addl. hours in major/minor to meet 50% rule		Has		Needs	
		100	300	100	300
		200	400	200	400
Addl. hours to meet 60 from 4-yr Inst.					
Addl. hours to total 36 upper level					
Addl. hours to total 120					

Biology Minor - 24 hours		Has		Needs	
		100	300	100	300
		200	400	200	400
4	BIOL 151/L General Biology I/Lab				
4	BIOL 153/L General Biology II/Lab				
4	BIOL 343/L Cell & Molecular Bio/Lab				
or					
	BIOL 371/L Genetics/Lab				
12	BIOL 300/400 level Electives (12 hrs):				
	BIOL				
	BIOL				
	BIOL				

		Has		Needs	
		100	300	100	300
		200	400	200	400
Major Requirements					
Required Core - 33 semester hours					
4	CHEM 112/L General Chemistry I/Lab				
4	CHEM 114/L General Chemistry II/Lab				
4	CHEM 326/L Organic Chemistry I/Lab				
4	CHEM 328/L Organic Chemistry II/Lab				
4	CHEM 332/L Analytical Chem/Lab				
4	CHEM 342/L Physical Chemistry I/Lab				
4	CHEM 464/L Biochemistry I/Lab				
1	CHEM 490 Senior Seminar				
4	MATH 123 Calculus I				
Take 1 emphasis:					
Chemistry Emphasis - 27-30 semester hours					
4	CHEM 452/L Inorganic Chemistry/Lab				
4	MATH 125 Calculus II				
5	PHYS 211/L University Physics I/Lab				
5	PHYS 213/L University Physics II/Lab				
Required Electives - Take 3 courses and corresponding lab if applicable: 9-12 semester hours					
	BIOL 343/L Cell & Molecular Biology/Lab				
	CHEM 344/L Physical Chemistry II/Lab				
	CHEM 355/L Field Environmental Chemistry/Lab				
	CHEM 434/L Instrumental Analysis/Lab				
	CHEM 492 Topics				
	CHEM 498 Research				
	GEOL 360 Environmental Geochemistry				
	MATH 225 Calculus III				
	MATH 281 Introduction to Statistics				
	MATH 321 Differential Equations				
	PHYS 331 Modern Physics				
Biochemistry Emphasis - 26-30 semester hours					
4	BIOL 151/L General Biology I/Lab				See minor
4	BIOL 153/L General Biology II/Lab				See minor
4	CHEM 465/L Biochemistry II/Lab				
Take one of the following groups:					
	PHYS 111/L Introduction to Physics I/Lab				
	PHYS 113/L Introduction to Physics II/Lab				
or					
	PHYS 211/L University Physics I/Lab				
	PHYS 213/L University Physics II/Lab				
Required Electives - Take 2 courses and corresponding lab if applicable: 6-8 semester hours					
	BIOL 317/L Electron Microscopy/Lab				
	BIOL 325/L Physiology/Lab				
	BIOL 331/L Microbiology/Lab				
	BIOL 343/L Cell & Molecular Biology/Lab				
	BIOL 371/L Genetics/Lab				
	BIOL 381/L Vertebrate Anatomy/Lab				
	CHEM 344/L Physical Chemistry II/Lab				
	CHEM 434/L Instrumental Analysis/Lab				
	CHEM 452/L Inorganic Chemistry/Lab				
	CHEM 492 Topics				
	CHEM 498 Research				
TOTALS:					