BLACK HILLS STATE UNIVERSITY

Major: **Chemistry**

2023-2024 - Status Sheet

Minor:

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:

ID or SSN:

Gen Ed Requirements	Has 100 200	Has 300 400	Needs 100 200	Needs 300 400
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

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 SUST 201 UHON 111, 210 WMST 101, 247

Arts & Humanities - 2 courses required

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	
Addl. hours to meet 60 from 4-yr Inst.	
Addl. hours to total 36 upper level	
Addl. hours to total 120	

Major Requirements	Has 100 200	Has 300 400	Needs 100 200	Needs 300 400
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				
4 BIOL 153/L General Biology II/Lab				
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				
8-10 **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:					60-63	TOTALS:				