BLACK HILLS STATE UNIVERSITY

Major: **Physical Science**

2022-2023 - Status Sheet

Minor:

Degree: **Bachelor of Science**

120 hours are required to graduate _____

36 hours of upper level are required _____

BBS.PHS

* Collaborative program with DSU

Prepared by:

Phone #:

Date:

Exit Exam: _____

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				

Select one course from the following list:				
CHEM 490 Seminar (1)				
ENGL 379 Technical Communication (3)				
GEOL 490 Seminar (1)				

Select 12 credit hours from the following list:				
CHEM 492 Topics (3-6)				
CHEM 498 Research * (3-6)				
GEOL 392 Topics (3-6)				
PHSI 492 Topics * (3-6)				
PHSI 498 Research * (3-6)				
PHYS 492 Topics (3-6)				
PHYS 498 Research * (3-6)				
SCI 492 Topics (3-6)				
SCI 494 Internship (3-6)				

TOTALS:				

Major Requirements	Has 100 200	Has 300 400	Needs 100 200	Needs 300 400
Required Core: 26 semester hours				
4 CHEM 112/L General Chemistry I/Lab				
4 CHEM 114/L General Chemistry II/Lab				
4 MATH 123 Calculus I				
4 MATH 125 Calculus II				
5 PHYS 211/L University Physics I/Lab				
5 PHYS 213/L University Physics II/Lab				
Take 1 MATH course from the following: 3-4 hours				
MATH 225 Calculus III				
MATH 281 Introduction to Statistics				
MATH 315 Linear Algebra				
MATH 316 Discrete Mathematics				
MATH 318 Advanced Discrete Mathematics *				
MATH 321 Differential Equations				
MATH 373 Introduction to Numerical Analysis				
MATH 413 Abstract Algebra				
MATH 422 Complex Variables				
MATH 487 Design of Experiments				
Select 6 courses (& lab) from the following: 18-24 hrs				
CHEM 326/L Organic Chemistry I/Lab				
CHEM 328/L Organic Chemistry II/Lab				
CHEM 332/L Analytical Chem/Lab				
CHEM 342 Physical Chemistry I				
CHEM 344 Physical Chemistry II				
CHEM 434/L Instrumental Analysis/Lab				
CHEM 452 Inorganic Chemistry				
CHEM 464 Biochemistry I				
CSC 150 Computer Science I *				
CSC 250 Computer Science II *				
CSC 260 Object Oriented Design *				
CSC 300 Data Structures *				
CSC 316 Discrete Mathematics				
CSC 318 Advanced Discrete Mathematics *				
CSC 410 Parallel Computing *				
CSC 433 Computer Graphics *				
CSC 482 Algorithm Analysis *				
GEOL 201/L Physical Geology/Lab				
GEOL 310 Volcanology				
GEOL 340 Mineralogy and Petrology				
GEOL 370 Hydrogeology				
PHYS 331 Introduction to Modern Physics				
PHYS 341 Thermodynamics				
PHYS 343 Statistical Physics *				
PHYS 361 Optics *				
PHYS 421 Electromagnetism				
PHYS 424 Digital Electronics *				
PHYS 433 Nuclear & Elementary Particle Physics *				
PHYS 451 Classical Mechanics				
PHYS 471 Quantum Mechanics				
PHYS 481 Mathematical Physics *				
SCI 388 GIS/GPS				

60-69 TOTALS:				