

The University of South Dakota
Major Credit Hour count: 59-62
Major: Biology - Physiology, Cellular and Molecular, B.S.

[2021-2022 Academic Catalog]

First Year - 1st Semester

BIOL 151/L General Biology I
CHEM 112/L General Chemistry I
ENGL 101 Composition I
Mathematics
First Year Seminar

SGR/Major Requirement	Cr Hrs
SGR 6+M	4
SGR 6+M	4
SGR 1	3
SGR 5+M	3
	1
Semester Credit Hours:	15

First Year - 2nd Semester

BIOL 153/L General Biology II
CHEM 114/L General Chemistry II
ENGL 210 Intro to Literature
Mathematics

SGR/Major Requirement	Cr Hrs
BS + Major	4
BS + Major	4
BS	3
BS	4
Semester Credit Hours:	15

Second Year - 1st Semester

BIOL 280/L Inquiry & Analysis
CHEM 310/L: Fundamental Organic Chemistry
CMST 101 Fundamentals of Speech
Advanced Composition

SGR/Major Requirement	Cr Hrs
Major	2
Major	5
SGR 2	3
SGR 1	3
Semester Credit Hours:	13

Second Year - 2nd Semester

BIOL 443: Cell Biology
Required Chemistry Sequence Course
Social Science
Humanities
Mathematics

SGR/Major Requirement	Cr Hrs
Major	3
Major	3
SGR 3	3
SGR 4	3
BS	3
Semester Credit Hours:	15

Third Year - 1st Semester

BIOL 475: Intro to Molecular Biology
BIOL (Physiology, Cell & Molecular Group)
Social Science
Additional Social Science/Humanities
Elective

SGR/Major Requirement	Cr Hrs
Major	3
Major	4
SGR 3	3
BS	3
	3
Semester Credit Hours:	16

Third Year - 2nd Semester

BIOL 428: Comparative Physiology
BIOL (Physiology, Cell & Molecular Group)
Additional Social Science/Humanities
Fine Art
Elective

SGR/Major Requirement	Cr Hrs
Major	3
Major	4
BS	3
SGR 4	3
	3
Semester Credit Hours:	16

Fourth Year - 1st Semester

BIOL Elective
BIOL (Physiology, Cell & Molecular Group)
CHEM Minor Elective
Elective

SGR/Major Requirement	Cr Hrs
Major	3
Major	4
BS	4
	3
Semester Credit Hours:	14

Fourth Year - 2nd Semester

BIOL (Conservation & Biodiversity Group)
BIOL Capstone Group
Electives

SGR/Major Requirement	Cr Hrs
Major	3
Major	3
	10
Semester Credit Hours:	16

Total Major Requirements 120

Notes: All students in the specialization must complete three upper-level biology lab courses, and one designated botany course. Courses within the major elective may fulfill more than one requirement, for example, BIOL 427/L may count as an upper-level lab, a botany course, and a capstone course. Must complete a minimum of 30 credit hours of upper-division (300-400 level) BIOL.