



northern *State* university

**Bachelor of Science in Biology
Plan of Study**

First Year Fall	
Course	Credit
IDL 190, Freshman Seminar	2
BIOL 130, Success in Science	1
BIOL 151/L, General Biology I	4
CHEM 112/L, General Chemistry I	4
MATH 102/L, College Algebra*	3-4
	14-15

First Year Spring	
Course	Credit
BIOL 153/L, General Biology II	4
CHEM 114/L, General Chemistry II	4
ENGL 101, Composition I	3
Arts and Humanities Course (see catalog)	3
	14

Second Year Fall	
Course	Credit
ENGL 201, Composition II	3
Behavioral/Social Sciences Course (see catalog)	3
BIOL 333/L, Aquatic Ecology **	4
CHEM 326/L, Organic Chemistry I***	4
	14

Second Year Spring	
Course	Credit
BIOL 343/L, Cell and Molecular Biology**	4
Behavioral/Social Sciences Course (see catalog)	3
SPCM 101, Fundamentals of Speech*	3
Arts and Humanities Course (see catalog)	3
CHEM 328/L, Organic Chemistry II***	4
	17

Third Year Fall	
Course	Credit
BIOL 345, Biological Statistics I	3
BIOL 311/L, Principles of Ecology**	4
BIOL 250/L, Intro to Biotechnology***	3
BIOL 407/L, Plants and Civilization**	4
BIOL 357/L, Invertebrate Zoology**	4
	18

Third Year Spring	
Course	Credit
BIOL 351/L, Plant Structure and Function**	4
Human Values Course (see catalog)	3
CHEM 460/L, Biochemistry***	4
BIOL 383, Bioethics***	3
BIOL 245/L, Cell Culture Techniques***	3
	17

Fourth Year Fall	
Course	Credit
BIOL 490, Senior Seminar, or BIOL 498, Undergraduate Research and Scholarship	1
BIOL 363/L, Ornithology **	4
BIOL 301/L, Plant Systematics**	4
BIOL 331/L, Microbiology**	4
	13

Fourth Year Spring	
Course	Credit
BIOL 371/L, Genetics**	4
BIOL 365/L, Vertebrate Zoology**	4
BIOL 250/L, Bioinformatics***	3
BIOL 373/L, Evolution***	4
	15

Suggested Double Majors: Environmental Science, Chemistry, Associates in Biotechnology

Suggested Minors: Geography, GIS, Quantitative Analytics in Science

Suggested Certificates: Allied Health, Organismal Biology, GIS

*Fulfills a General Education Requirement. Other course options may be available. **Fulfills a major requirement. Other course options may be available. ***Fulfills a general elective. Other course options may be available. This plan of study is not an official document. Depending on placement scores, developmental courses may be required. Course rotations may change. Please visit with a professional advisor at least once a semester to review appropriate course choices and plan updates.