



Plan of Study

Biology with Integrative Biology Specialization

Catalog Year: 2024-2025

Sample Schedule: students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor. This plan is one possible path to completing this degree in **four years**.

FIRST YEAR

First Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
*Biology Core (26 credits)			
*BIOL 145 Introduction to Science Inquiry		1	F
BIOL 151 General Biology I & Lab		4	F
MATH 114 College Algebra	Placement reports determine	3	F/S/SU
Social Science Requirement		3	F/S/SU
CSC 105 Introduction to Computers		3	F/S/SU
	Total Credit Hours	14	

Second Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
BIOL 153 General Biology II & Lab		4	S
ENGL 101 Composition I		3	F/S/SU
Arts & Humanities Requirement		3	F/S/SU
Oral Communication Requirement		3	F/S/SU
CSC 123 or CSC 150 or CIS 130 elective		3	F/S/SU
	Total Credit Hours	16	

Summer Semester

Course	Prerequisites	Credits	Semester(s) Offered
BIOL 235 Intro to Biotechnology & Lab	None; offered summer only	3	SU

SECOND YEAR

Third Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
*BIOL 331 Microbiology & Lab	BIOL 151	4	F
*BIOL 221 Human Anatomy & Lab	BIOL 151	4	F
CHEM 112 General Chemistry I & Lab	Math 114, 115, 129, 121, 123, 125 or 281	4	F
Arts & Humanities Requirement		3	F/S/SU
	Total Credit Hours	15	

Fourth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
*BIOL 371 Genetics & Lab		4	S (Even Years)
CHEM 114 General Chemistry II & Lab	CHEM 112 and Math 114, 115, 129, 121, 123, 125 or 281	4	S
Biology Specialization Elective		4	

Course	Prerequisites / Comments	Credits	Semester(s) Offered
ENGL 201 Composition II	ENGL 101	3	F/S/SU
Total Credit Hours		15	

THIRD YEAR

Fifth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
MATH 281 Statistics		3	F/S/SU
Biology Specialization Elective		3	
Math/Science Elective (1)		4	
Math/Science Elective (2)		3	
Social Science Requirement		3	F/S/SU
Total Credit Hours		16	

Sixth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
*BIOL 343 Cell and Molecular Biology & Lab	BIOL 151	4	S (Odd Years)
Open Elective		3	
Math/Science Elective (3)		4	
Arts & Humanities Requirement		3	
Total Credit Hours		14	

FOURTH YEAR

Seventh Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
*BIOL 311 Principles of Ecology & Lab	BIOL 151	4	F (Odd Years)
Math/Science Elective (4)		4	
Open Elective		4	
Open Elective		3	
Total Credit Hours		15	

Eighth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
*BIOL 335 Introduction to Bioinformatics	BIOL 151 and CSC 105	3	S (Even Years)
Open Elective		3	
*BIOL 498 Undergraduate Research	Consent of the instructor	2	F/S
Open Elective		4	
Open Elective		3	
Total Credit Hours		15	

Semester: F = Fall; S = Spring; SU = Summer; ***Information and course schedules may change. This is not a contract.***