

ACADEMIC ROADMAP

Biology BS Degree

Fall 2022

Freshman Year (30 credits)

FIRST SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Foundations of Biology	BIO 111	
Introductory Chemistry <u>or</u> Functions and Modeling	CHE 110 ("C" or better) <u>or</u> MAT 114 ("C" or better)	
Ethics for Scientists	PHI 111 (IF Humanities)	
Intellectual Foundations course		
College Writing I	CWP 101	

SECOND SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Introductory Biology Series	BIO 211 or BIO 213	BIO 111 ("C" or better)
Fundamentals of Chemistry I + lab	CHE 111 & 113 (lab)	CHE 110 or MAT 114 ("C" or better)
Introduction to Psychology	PSY 101 (IF Social Science)	
Intellectual Foundations course		
College Writing II	CWP 102	CWP 101 ("C" or better)

Notes and recommendations: Attend at least one faculty office hour; visit Academic Commons (Math & Writing Centers, tutoring); view your degree audit sheet in Degree Works

Sophomore Year (60 credits)

THIRD SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Introductory Biology Series	BIO 211 or BIO 213	BIO 111 ("C" or better)
Fundamentals of Chemistry II + lab	CHE 112 & 114 (lab)	CHE 111 & 113
General Physics I	PHY 107	
Intellectual Foundations course		
Intellectual Foundations course		

FOURTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Required Biology course	BIO 303 (Genetics) (Fall only) BIO 314 (Advanced Cell Biology) (Spring only) BIO 316 (General Microbiology) (Spring only) BIO 440 (Applications in Biotechnology) (Fall only)	BIO 111, 211 & 213, CHE 111/113, CHE 112/114 BIO 111, 211, 213 & CHE 111/113, CHE 112/114, CHE 201 BIO 111, 211 & 213, CHE 111/113 BIO 111, 211, 213, CHE 111/113, CHE 112/114
General Physics II	PHY 108	PHY 107
Organic Chemistry I with lab	CHE 201/203	CHE 112/114
Intellectual Foundations course		

Notes and recommendations: Form a study group; consider enrolling in a minor or certificate program

Junior Year (90 credits)

FIFTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Biostatistics	BIO 300 or MAT 311	For BIO 300: BIO 111, 211 & 213
Biological Form, Function Diversity	BIO 333	BIO 111 ("C" or better), 211, 213
Required Biology course	BIO 303, 314, 316, 440	See above (fourth semester)
Organic Chemistry II with lab	CHE 202/204	CHE 201/203
Intellectual Foundations course		

SIXTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Required Biology course	BIO 303, 314, 316, 440	See above (Fourth Semester)
Statistics	BIO 300 or MAT 311	Upper division for BIO 300
Biology Elective course	By advisement	
All College elective		
Intellectual Foundations course		

Notes and recommendations: Visit the Career Development Center; talk to your faculty advisor about graduate school options

Senior Year (120 credits)

SEVENTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Required Biology course	BIO 303, 314, 316, 440	See above (Fourth Semester)
Biology Elective course	By advisement	
All College elective		
All College elective		

EIGHTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Biology Elective course	By advisement	
All College elective		
All College elective		

Notes and recommendations: Apply for graduation; apply to graduate school, if applicable; visit the Career Development Center to have your resume reviewed