

Introduction and Supporting Sciences 37-40 Credits

CHEMISTRY Requirement: (15-16 credits)

Course	Semester	Credits	Grade
*CHM 101		3	
CHM 102		1	
OR			
CHM 191		5	
Course	Semester	Credits	Grade
CHM 112		3	
CHM 114		1	
OR			
CHM 192		5	
Course	Semester	Credits	Grade
CHM 226		2	
CHM 227		3	
CHM 228		3	
OR			
CHM 124		3	
CHM 126		1	
CMB 311		3	

MATH Requirement: (6-8 credits)

Course	Semester	Credits	Grade
*MTH 131		3	
OR			
*MTH 141		4	
Course	Semester	Credits	Grade
MTH 132		3	
OR			
*MTH 142		4	
OR			
STA 308		4	

CELL & MOLECULAR BIOLOGY Requirement : (4 credits)

Course	Semester	Credits	Grade
CMB 211		4	
OR			
CMB 201		3	
CMB 202		1	

PHYSICS Requirement: (8 credits)

Course	Semester	Credits	Grade
*PHY 111		3	
*PHY 185		1	
OR			
*PHY 203		3	
*PHY 273		1	
Course	Semester	Credits	Grade
*PHY 112		3	
*PHY 186		1	
OR			
*PHY 204		3	
*PHY 274		1	

WRITING Requirement: (3 credits)

Any WRT course, 104 or above			
Course	Semester	Credits	Grade
WRT			

Introduction Requirement: (1 credit)

Course	Semester	Credits	Grade
URI 101		1	

Advising Notes: _____

B.S. Biological Sciences
Sample 4 Year plan - Effective Fall 2025
College of the Environment and Life Sciences

Freshman Year *Fall* Semester

Course Code	Description	Cr
BIO 101,103	Principles of Biology, Lab	4
CHM 101,102 or Gen Ed	General Chemistry, Lab or General Education Course	3-4
MTH 103 or MTH 131	Precalculus or Applied Calculus	3
	General Education Course	3-4
URI 101	Planning for Academic Success	1
		15-17

Freshman Year *Spring* Semester

Course Code	Description	Cr
BIO 102,104	Principles of Biology 2, Lab	4
CHM 112,114 or CHM 101,102	General Chemistry 2, Lab or General Chemistry 1, Lab	4
MTH 131, 132 or STA 308	Applied Calculus, Applied Calculus 2, or Introduction to Statistics	3-4
	General Education Course	3-4
		15-17

Year 1 Milestones: Complete BIO 101, 103, 102, 104, CHM 101, 102, MTH 131

Sophomore Year *Fall* Semester

Course Code	Description	Cr
	BIO Core Course	3-4
CHM 124,126 or 227 or CHM112,114	Introduction to Organic Chemistry, Lab, or General Chemistry lecture 2, Lab	4
Elective or MTH 132 or STA 308	Elective, or Applied Calculus 2, or Introduction to Statistics	3-4
	General Education Course	3-4
		15-17

Sophomore Year *Spring* Semester

Course Code	Description	Cr
	BIO Core Course	4
CHM 124,126 or 227 or 228 or CMB 311	Introduction to Organic Chemistry, Lab or Organic Chemistry Lecture 2, or Introductory Biochemistry	3-5
CMB 201 or CMB 211	Introductory Microbiology OR Introductory Medical Microbiology	4
	General Education Course	3-4
		15-17

Year 2 Milestones: Complete CMB 201 or 211 and CHM 112, 114 begin organic chemistry sequence. Meet with faculty advisor to plan year 3 courses.

Junior Year *Fall* Semester

Course Code	Description	Cr
BIO Core or BIO 352	BIO Core or General Genetics	3-4
PHY 111,185	General Physics, Lab	4
CHM 226	Organic Chemistry Lecture	3-5
	General Education Course	3-4
		15-17

Junior Year *Spring* Semester

Course Code	Description	Cr
BIO Core or BIO 352	BIO Core or General Genetics	3-4
	BIO Elective	3-4
PHY 112,186	General Physics, Lab	4
Gen Ed or CMB 311	General Education or Introductory Biochemistry	3-4
		15-17

Year 3 Milestones: Complete BIO 352 and BIO core courses, PHY 111, 185, 112, 186, finish organic chemistry sequence. Meet with faculty advisor to plan year 4 courses, and discuss internship and/or research opportunities.

Senior Year *Fall* Semester

Course Code	Description	Cr
	BIO Elective	3-4
	BIO Elective	3-4
	General Education Course	3-4
	Elective	3-4
		15-17

Senior Year *Spring* Semester

Course Code	Description	Cr
	BIO Elective	3-4
	BIO Elective or Elective	3-4
	General Education Course or Elective	3-4
	Elective	3-4
		15-17

Year 4 Milestones: Finish Biology electives and general education.
Minimum of 120 credits to graduate.
Minimum 2.0 cumulative GPA required in the 36 credits in Biology courses for graduation.
Minimum overall 2.0 cumulative GPA required for graduation.