

Bachelor of Science, Biology (B.S.): 2024-2025 Catalog

***Sequence of courses may be altered with consent of advisor.

Course No.	Description	Cr.
First Year Fall		
<input type="checkbox"/> BIOL 110	Evolution, Ecol, & Plant Biol.	4
<input type="checkbox"/> CHEM 121	Chemistry Principles I	4
<input type="checkbox"/> ---- xxx	Social Sciences	3
<input type="checkbox"/> WRIT 102	Research Writing	3
<input type="checkbox"/> HIST xxx	History	3
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0
<input type="checkbox"/> BIOL 131	Biology First Year Seminar	0
Total Credits		17

Course No.	Description	Cr.
First Year Spring		
<input type="checkbox"/> BIOL 111	Mol., Cells, & Anim. Phys. #NS	4
<input type="checkbox"/> CHEM 122	Chemistry Principles II	4
<input type="checkbox"/> MATH 112	Calculus	3
	or 121 Calculus/Geom I	
<input type="checkbox"/> FTAE 105	Intro to Franciscan Theology	3
<input type="checkbox"/> CORE I	Building a Foundation	3
<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
Total Credits		17

Course No.	Description	Cr.
Second Year Fall		
<input type="checkbox"/> BIOL xxx	Biology Cluster Course	4
<input type="checkbox"/> CHEM 221	Organic Chemistry I	4
<input type="checkbox"/> LIT xxx	Literature	3
<input type="checkbox"/> PHIL 105/...	Philosophy	3
<input type="checkbox"/> CORE II	Civic Responsibility & Citizenship	3
Total Credits		17

Course No.	Description	Cr.
Second Year Spring		
<input type="checkbox"/> BIOL xxx	Biology Cluster Course	4
<input type="checkbox"/> CHEM 222	Organic Chemistry II	4
<input type="checkbox"/> Statistics	Statistics Course (see note) #QR	3
<input type="checkbox"/> FNAR/ART	Fine Arts and Creative Expression	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/> BIOL 231	Biology Sophomore Seminar	0
Total Credits		17

Course No.	Description	Cr.
Third Year Fall		
<input type="checkbox"/> BIOL xxx	Biology Cluster Course	4
<input type="checkbox"/> PHYS 104	Intro to Physics I	4
	or 121 Gen. Physics I	
<input type="checkbox"/> ---- xxx	Language and Cultures	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
Total Credits		17

Course No.	Description	Cr.
Third Year Spring		
<input type="checkbox"/> BIOL 301	Genetics	4
<input type="checkbox"/> BIOL 383	Biol. Research Methods Sem.	2
<input type="checkbox"/> PHYS 105	Intro to Physics II	4
	or 122 Gen. Physics II	
<input type="checkbox"/> FTAE/PHIL	Ethics	3
<input type="checkbox"/>	Free Elective	3
Total Credits		16

Course No.	Description	Cr.
Fourth Year Fall		
<input type="checkbox"/> BIOL xxx	Biology Elective	4
<input type="checkbox"/> BIOL xxx	Biology Elective	4
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	1
Total Credits		15

Course No.	Description	Cr.
Fourth Year Spring		
<input type="checkbox"/> BIOL 402	Evolution	3
<input type="checkbox"/> BIOL xxx	Biology Elective	3
<input type="checkbox"/> CORE III	Junior/Senior Capstone	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/> EXAM 401	Dept. Comp. Exam	0
Total Credits		12

128 Total Required Credits

Updated: 5/2024

Biology Clusters

F = Fall; S = Spring; Su = Summer; AN = As Needed

Requires **22 credits** of cluster + bio elective courses

At least 1 course is required from each cluster.

Ecology Cluster

BIOL 203 – Ecology (F)
 BIOL 208 – Animal Behavior (F)
 BIOL 220 – Conservation Biology (S)
 BIOL 322 – Field Biology (S)
 BIOL 326 – Freshwater Aquatic Biology (F)

Molecules and Cells Cluster

BIOL 251 - Bioinformatics (AN)
 BIOL 302 – General Microbiology (F)
 BIOL 305 – Immunology (F)
 BIOL 401 – Cell & Molecular Biology (S)
 BIOL 405 – Biochemistry (F)
 BIOL 430 – Adv. Lab. Methods Molec. Bio. (S)

Organismal Biology Cluster

BIOL 204 – Invertebrate Zoology (F)
 BIOL 211 – Comparative Anatomy (S)
 BIOL 212 – Developmental Biology (S)
 BIOL 218 – Marine Biology (F)
 BIOL 306 – Animal Nutrition (F)
 BIOL 320 – Vertebrate Zoology (S)
 BIOL 345 - Environmental Animal Physiology (S)
 BIOL 403 – Advanced Botany (F)
 BIOL 406 – Vertebrate Physiology (F)

Biology Elective Courses:

Any of the cluster courses above, or
 BIOL 150 - Aquarium Maintenance (AN; max 1 cr)
 BIOL x94 – Biological Research, or
 Any 300- or 400- Biology course

Statistics Requirement can be fulfilled by:

BIOL 315 – Biostatistics (S)
 MATH 215 – Introductory Statistics (F,S)
 STAT 205 – Essentials of Statistics (F,S)

Suggestions:

Consider undergraduate research
 Job shadow and seek research or internships
 during summer