

Bachelor of Science, Biology (B.S.): 2023-2024 Catalog

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"/> SOC SCI	Social Science Elective I	3
<input type="checkbox"/> WRIT 102	Research Writing	3
<input type="checkbox"/> HIST xxx	History Elective 100-200 level	3
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0
<input type="checkbox"/> BIOL 131	Biology First Year Seminar	0
Total Credits		17

Second Year	Fall	
<input type="checkbox"/> BIOL xxx	Biology Cluster Course	3-4
<input type="checkbox"/> CHEM 221	Organic Chemistry I	4
<input type="checkbox"/> LIT 104, 201, 202, 204, 207, 270	Literature	3
<input type="checkbox"/> PHIL 205	Discovering Philosophy	3
<input type="checkbox"/> SOC SCI	Social Science Elective II	3
Total Credits		16-17

Third Year	Fall	
<input type="checkbox"/> BIOL xxx	Biology Cluster Course	3-4
<input type="checkbox"/> PHYS 104	Intro to Physics I	4
<input type="checkbox"/> or 121	Gen. Physics I	
<input type="checkbox"/> LANG xxx	Foreign Lang. (102 or higher)	3
<input type="checkbox"/> ECON/PLSC/PSYC/SOC	Social Science III	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/> BIOL 331	Biology Junior Seminar	0
<input type="checkbox"/> EXAM 301	Writing Competency	0
Total Credits		17

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	3
Total Credits		17

Total Required Credits: 128

Course No.	Description	Cr.
First Year	Spring	
<input type="checkbox"/> BIOL 111	Molecules, Cells, & Anim. Phys.	4
<input type="checkbox"/> CHEM 122	Chemistry Principles II	4
<input type="checkbox"/> MATH 112	Calculus	3
<input type="checkbox"/> or 121	Calculus/Geom I	
<input type="checkbox"/> FTAE 105	Franciscan Goals for Today	3
<input type="checkbox"/> CORE 113	Gen Ed 1 st Year Seminar	3
<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
Total Credits		17

Second Year	Spring	
<input type="checkbox"/> BIOL xxx	Biology Cluster Course	3-4
<input type="checkbox"/> CHEM 222	Organic Chemistry II	4
<input type="checkbox"/> Statistics	Statistics Course (see note)	3-4
<input type="checkbox"/> FNAR xxx	Fine Arts Elective	3
<input type="checkbox"/> BIOL 231	Biology Sophomore Seminar	0
<input type="checkbox"/>	Diversity Elective	3
Total Credits		16-18

Third Year	Spring	
<input type="checkbox"/> BIOL 301	Genetics	4
<input type="checkbox"/> PHYS 105	Intro to Physics II	4
<input type="checkbox"/> or 122	Gen. Physics II	
<input type="checkbox"/> PHIL /FTAE	300+ Phil/FTAE Elective	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
Total Credits		16-17

Fourth Year	Spring	
<input type="checkbox"/> BIOL 402	Evolution	3
<input type="checkbox"/> BIOL 431	Biology Senior Seminar	1
<input type="checkbox"/> BIOL xxx	Biology Elective	2-5
<input type="checkbox"/>	Free Elective	0-3
<input type="checkbox"/> CORE 407	Keystone Seminar	3
<input type="checkbox"/> EXAM 401	Dept. Comp. Exam	0
Total Credits		12

Updated: 5/2023

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

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