

B.S., Biology: Ecology & Environmental Biology Concentration (EEB): 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"/> MATH 111	Finite Math	3
or MATH121	Calculus/Geom I	
<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 203	Ecology	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"/>	Diversity Elective	3
Total Credits		17

Third Year		
Fall		
<input type="checkbox"/> BIOL 302	General Microbiology	4
<input type="checkbox"/> PHYS 104	Intro to Physics I	4
or 121	Gen. Physics I	
<input type="checkbox"/> LANG xxx	Foreign Lang. (102 or higher)	3
<input type="checkbox"/> Soc Sci II	Social Science Collateral (see right)	3
<input type="checkbox"/> Soc Sci III	Social Science Collateral (see right)	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	Envi. Sci. Elective or Cluster	4
<input type="checkbox"/> BIOL xxx	Envi. Sci. Elective or Cluster	4
<input type="checkbox"/> Soc Sci IV	Social Science Collateral (see right)	3
<input type="checkbox"/>	Free Elective	3
Total Credits		14

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
or MATH 122	Calculus/Geom II	
<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	Envi. Sci. Elective or Cluster	4
<input type="checkbox"/> CHEM 222	Organic Chemistry II	4
<input type="checkbox"/> Soc Sci I	Social Science Collateral (see right)	3
<input type="checkbox"/> FNAR xxx	Fine Arts Elective	3
<input type="checkbox"/> BIOL 231	Biology Sophomore Seminar	0
<input type="checkbox"/> Research	Field Biology or Research (see right)	3
Total Credits		17

Third Year		
Spring		
<input type="checkbox"/> BIOL 301	Genetics	4
<input type="checkbox"/> PHYS 105	Intro to Physics II	4
or 122	Gen. Physics II	
<input type="checkbox"/> PHIL /FTAE	300+ Phil/FTAE Elective	3
<input type="checkbox"/> BIOL 315	Biostatistics	4
Total Credits		15

Fourth Year		
Spring		
<input type="checkbox"/> BIOL 402	Evolution	3
<input type="checkbox"/> BIOL 431	Biology Senior Seminar	1
<input type="checkbox"/> BIOL 408	Environmental Problems Seminar	4
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/> CORE 407	Keystone Seminar	3
<input type="checkbox"/> EXAM 401	Dept. Comp. Exam	0
Total Credits		14

Environmental Science Elective Courses

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

At least 8 credits from the following:

Any of the cluster courses below.

BIOL 150 - Aquarium Maintenance (AN; 1 cr max)

BIOL 208 – Animal Behavior (F)

BIOL 220 – Conservation Biology (S)

BIOL 322 – Field Biology (S)

BIOL 326 – Freshwater Aquatic Biology (F)

CHEM 305 – Environmental Chemistry (F)

BIOL x94 – Biology Research

Any 400 or higher Biology course

Organismal Biology Cluster Courses

At least 1 course is required from the 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

BIOL 403 – Advanced Botany (F)

BIOL 406 – Vertebrate Physiology (F)

Research Experience Options

Choose one of the following Research Experiences:

BIOL 322 Field Biology (S; 3 cr)

BIOL 194/294/394/494 Biological Research (3 cr)

Social Science Collaterals

Choose four of the following options:

ECON 101 or 102 - Prin. Economics I or II

MGMT 101 - Principles of Management

PLSC 102 or 103 - Amer. Nat. Gov. Or World Pol.

PSYC 101 - Intro Psychology

SOC 101, 102, or 305 - Sociology or Env. Sociology

Raystown Field Station

Consider a semester abroad at Raystown Field Station. Plan this in advance with your advisor.