Oregon State University
Extended Campus
Biology Undergraduate Minor

Project Title: Biology Undergraduate Minor
Sponsoring School and College: College of Science, School of Life Sciences, Department of Integrative Biology
Contact: Brock McLeod
Effective Term: Fall 2017
Reference: tbd

Minor Code: 509

Ecampus submits this memorandum to the Curriculum Council, according to the Curriculum Council Review Process for Ecampus Proposals, as an information item, to indicate that the proposed program includes the same curricular requirements as the already-approved, already-offered major on campus. The table below compares the required and elective courses offered on campus, those offered online, and the required pre-requisites for each course, if applicable. The pre-requisite courses are listed in bold font if they are already offered online or are already in development for delivery online.

Summary

Catalog description:

Students majoring in Biochemistry and Biophysics, Biochemistry and Molecular Biology (in proposal), Biohealth Sciences, Biology, Botany and Plant Pathology, Microbiology and Zoology cannot declare the Biology minor. The courses below may be shared with other majors outside of those listed above.

The Biology undergraduate minor includes a required introductory biology sequence with a chemistry prerequisite or corequisite (BI 211, BI 212, BI 213, *Principles of Biology). Organic chemistry, CH 331 or 334, is required to take BI 314 Cell and Molecular Biology and some of the listed physiology courses. A C- or better in the BI 21x or 20x series is required to complete the minor.

The following table presents the on-campus and online curriculum, including pre-requisites.

- Courses currently available online or are in the development queue are in **bold**.
- * = Baccalaureate Core Course.

Current On-campus Biology Minor (total of 28-31 credits)	Proposed Ecampus Biology Minor (total of 28-31 credits)	Prerequisites (if any); those already offered via Ecampus or in the development queue are indicated in **bold**
Program Core courses (16)	Program Core courses (16)	
BI 211, BI 212, BI 213. *Principles of Biology (4,4,4) <u>or</u> BI 204, BI 205, BI 206. *Introductory Biology (4,4,4)	**BI 204, BI 205, BI 206. *Introductory Biology (4,4,4)**	**BI 205 and 206;** BI 212 [C-] and BI 213 [C-] PREREQS: **CH 121 [D-]** or **CH 231 [D-]**
BI 311. Genetics (4)	**BI 311. Genetics (4)**	**BI 311** PREREQS: **BI 204 [C-] and BI 205 [C-] and BI 206 [C-]**
Electives (16-19 credits) Select <u>one</u> course in each of the following subject areas: Cell and Molecular Biology, Ecology, Evolution, and Organismal and Physiology.	**Electives (16-19 credits)** Select <u>one</u> course in each of the following subject areas: Cell and Molecular Biology, Ecology, Evolution, and Organismal and Physiology.	
Subject Area: Cell and Molecular Biology	Subject Area: Cell and Molecular Biology	
BB/BI 314. Cell and Molecular Biology (4) <u>or</u> BB 331. Introduction to Molecular Biology (3)	**BB/BI 314. Cell and Molecular Biology (4)**	BB/BI 314 PREREQS: (BI 211 [C-] and BI 212 [C-] and BI 213 [C-]) or **(BI 204 [C-] and BI 205 [C-]) and BI 206 [C-] and** (**CH 331 [D-]**)
Subject Area: Ecology (3-4)	Subject Area: Ecology	
BI 351. Marine Ecology (3) BI 370. Ecology (3) *BI 348. Human Ecology (3) *Z 349. Biodiversity: Causes, Consequences, and Conservation (3) MB 448. Microbial Ecology (3) BOT 341. Plant Ecology (4)	**BI 351. Marine Ecology (3)** **BI 370. Ecology (3)** ***BI 348. Human Ecology (3)** ***Z 349. Biodiversity: Causes, Consequences, and Conservation (3)**	**BI 351 and BI 370** PREREQS:(**BI 204 [C-] and BI 205 [C-] and BI 206 [C-]**)

Subject Area: Evolution (3)	Subject Area: Evolution	
BI 345. *Introduction to Evolution (3) BI 445. * Evolution (3)	**BI 345. *Introduction to Evolution (3)**	
Subject Area: Organismal and Physiology (3-5)	Subject Area: Organismal and Physiology	
BI 331. Advanced Human Anatomy and Physiology (3) and BI 341. Advanced Human Anatomy and Physiology Laboratory (2) BOT 313. Plant Structure (4) BOT 321. Plant Systematics (4) BOT 331. Plant Physiology (4) BOT 425. Flora of the Pacific Northwest (3) BOT 488. Environmental Physiology of Plants (3) MB 302. General Microbiology (3) Z 315. Dinosaur Biology (3) Z 350. Animal Behavior (3) Z 361. Invertebrate Biology (3) Z 365. Biology of Insects (4) Z 371. Vertebrate Biology (3) Z 423. Environmental Physiology (3) Z 431. Vertebrate Physiology I (3) Z 432. Vertebrate Physiology II (3) Z 440. Insect Physiology (3) Z 473. Herpetology (3)	**Z 350. Animal Behavior (3)** **Z 423. Environmental Physiology (3)**	Z 350 PREREQS: (**BI 204 [C-] and BI 205 [C-] and BI 206 [C-]**) Z 423 PREREQS: ((**BI 204 [C-] and BI 205 [C-] and BI 206 [C-]**) and (**CH 123 [D-] or (CH 233 [D-]**))
TOTAL CREDITS	**TOTAL CREDITS**	
28-31	28-31	

General Degree Requirements:
(CH 121, or CH 231 or CH 233) and CH 331
Chemistry prerequisite or corequisite for Principles of Biology (BI 211, BI 212, BI 213,)
GPA Requirement (if any):
C- or better in the BI 20x series
D- or better in (CH 121, or CH 231 or CH 233) and CH 331
Link to Ecampus Policy and Procedures
http://oregonstate.edu/admin/aa/apaa/book/export/html/227

Development Plan: Biology Minor

Course	Modality	CR	Course Developers	*Spring 2017*	*Summer 2017*	*Fall 2017*	*Winter 2018*	*Spring 2018*	*Summer 2018*	*Fall 2018*	*Winter 2018*	*Spring 2019*
BI 204	online	4	A. Bouwma, J. Rose			offer				offer		
BI 205	online	4	A. Bouwma, J. Rose				offer				offer	
BI 206	online	4	A. Bouwma, J. Rose	offer				offer				offer
BI 311	online	4	M. Landys	offer		offer	offer	offer		offer	offer	offer
BI 314	online	3	I. Rajagopal		offer		offer		offer		offer	
BI 345	online	3	P. Pepe		offer	offer	offer		offer	offer	offer	
BI 348	online	3	P. Pepe				offer				offer	
BI 351	online	3	S. Sponaugle			offer				offer		
BI 370	online	3	K. Grorud-Colvert	offer	offer	offer	offer	offer	offer	offer	offer	offer
Z 349	online	3	P. Pepe, A Bouwma	offer	offer	offer	offer	offer	offer	offer	offer	offer
Z 350	online	3	P. Pepe	offer		offer		offer		offer		offer
Z 423	online	4	M. Landys				offer				offer	