Bachelor of Arts: Biology - Ecology, Evolution and Organismal **Biology Emphasis (84G)**

2019-2020 58 hours

The Ecology, Evolution and Organismal Biology emphasis provides education for students interested in a career with private and governmental organizations conducting endangered species recovery, ecological restoration, biological surveys, toxicity evaluations, environmental impact analyses, field research, museum or herbarium curation, or who wish to work in zoos, nature centers, museums, or botanical gardens. This emphasis also provides suitable background for students wishing to pursue graduate degrees in animal behavior, botany, conservation biology, ecology, environmental

Honors Research requires completion of 4 credit hours of

BIOL 3190 UG Research and 1 credit hour of BIOL 3191

Senior Thesis.

toxicology, evolutionary biology, systematics, population biology, and zoology.	
Introductory Track BIOL2051 Gen Bio: Organismal Diversity, 4 hrs BIOL2052 Gen Bio: Cell Structure & Function, 4 hrs BIOL3100 Evolution, Ecology & the Nature of Science, 3 hrs BIOL3140 Genetics, 4 hrs Required Chemistry* CHEM1110 General Chemistry I, 4 hrs CHEM1120 General Chemistry II, 4 hrs Required Chemistry Options (choose one option) 1 CHEM2040 Applied Organic & Biochem, 4 hrs OR 2 CHEM2210 Organic Chemistry I, 3 hrs	BIOL4114 Comparative Animal Physiology (Even Falls), 4 hrsBIOL4122 Plant Physiology (Spring), 4 hrsBIOL4137 Vertebrate Physiology (Odd Falls),
CHEM2230 Organic Chemistry Lab, 2 hrs	BIOL4198 Independent Study, 1-3 hrs
Required Math (choose one option) 1 MATH1120 Math for the Biological Sciences, 3 hrs ANDMATH1130 Trigonometry, 2 hrs OR 2 MATH1140 Precalculus, 4 hrs	EARTHSCI3328 Fossils & Evolution, 4 hrs OR GEOG3310 Geographical Info Systems, 3 hrs OR GEOG4220 Geography of Soils, 3 hrs
OR	3233 1220 300graphly of 30110, 0 1110
3 MATH1420 Calculus I, 4 hrs	Science courses at lowa Lakeside Laboratory satisfy elective requirements. Check with your advisor for
Required Earth Science OR Physics	specific information
(choose one course) 1 EARTHSCI1300 Introduction to Geology, 4 hrs OR 2 PHYSICS1511 General Physics I, 4 hrs	 NOTES: Biology majors must have both a UNI cumulative and a UNI major/PLAN GPA minimum of 2.50, with a grade of C- (1.67) or higher in all courses that are applied to the
Major Electives (21-23 hrs to equal 58 credit major) BIOL3106 Vertebrate Anatomy (Fall/Spring), 4 hrs BIOL3107 Environmental Physiology (Fall), 3 hrs BIOL3112 Invertebrate Zoology (Spring), 4 hrs BIOL3118 Marine Biology (Fall), 3 hrs BIOL3120 Plant Diversity & Evolution (Spring), 4 hrs BIOL3160 Field Zoology of Vertebrates (Spring),	 major. A minimum of 7 credits of 4000 biology electives required. BIOL4198 Independent Study does not count toward 4000 biology elective requirement. At least 4 credits of biology electives at the 4000 level need to be taken at UNI. Cannot count more than a combined 4 credits from, BIOL3185 Readings in Biology, BIOL3190 Undergraduate Research, BIOL 4198 Independent Study to the biology major. If *CHEM 1130 General Chemistry I-II, 5 hrs, is taken, then 3 additional biology electives are required to reach a 58 credit major.

BIOL4105 Wildlife Ecology &

(Even Falls), 3 hrs

Management (Odd Falls), 4 hrs

BIOL4108 Biodiversity Conservation Policy