

Individualized Curriculum in Zoology: **B.S. Environmental Biology** (Revisions for 2017-2018)

Student Name: \_\_\_\_\_ Email: \_\_\_\_\_

Faculty Advisor: \_\_\_\_\_ Matriculation Date: \_\_\_\_\_

**University Core Curriculum Courses** (see Undergraduate Catalog for list of course options) [39]

**Foundation Skills**

University College [1]       UCOL 101 Foundations of Inquiry

Composition [6]

- \_\_\_\_\_
- \_\_\_\_\_

Mathematics [3]

*MATH 108 or 111*

Speech Communication [3]

SPCM 101

**Disciplinary Studies**

Science [6]

Group I  *CHEM 200, 201, 202*

Group II       *BIOL 211*

Fine Arts [3]

- \_\_\_\_\_

Social Science [6]

Human Health [2]

- \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Humanities [6]

- \_\_\_\_\_

**Integrative Studies**

Multicultural [3]

- \_\_\_\_\_

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**College of Science Requirements** [7-9 (+3)]

**Biological Sciences:** completed with the Zoology major

**Mathematics:** choose *one* of the following options [1-3 (+3)]

- MATH 108 College Algebra *and* MATH 109 Trigonometry & Analytical Geometry [3 (+3)]
- MATH 111 Precalculus [1 (+3)]

**Physical Sciences:** completed with the Zoology major

**Supportive Skills** [6]

- Technical Writing  
ENGL 290 Intermediate Analytical Writing *or* 291 Intermediate Technical Writing *or* 391 Precision in Reading and Writing *or* JRNL 310 Writing for the Mass Media
- Statistics  
MATH 282 Intro Statistics *or* QUAN 402 Basic Statistics *or* ZOOL 360 Intro Biostats

**Requirements for the Zoology Major (B.S., Environmental Biology Specialization): 70-71**

**Biology Core [18 (+3)]**

- BIOL 211 Introductory Cell Biology and Genetics [1(+3)]
- BIOL 212 Introductory Evolution and Ecology [4]
- BIOL 213 Introductory Organismal Biology [4]
- BIOL 305 Principles of Genetics [3]
- BIOL 307 Principles of Ecology [3]
- BIOL 409 Developmental Biology [3]

**Chemistry [12 (+3)]**

- CHEM 200, 202 Intro. Chemical Principles [4] *and* CHEM 201 General Chemistry Lab I [1]
- CHEM 210, 212 General & Inorganic Chem. [4] *and* CHEM 211 General Chemistry Lab II [1]
- CHEM 340 Intro. Organic Chemistry [3] *and* CHEM 341 Organic Chemistry Lab I [2]

**Mathematics:**  MATH 139 Finite Math *or* MATH 141 Short Course Calculus Biological Sciences [3-4]

**Zoology Core [19] (*italics* = not regularly offered)**

- ZOO 215 Sophomore Seminar [1]
- ZOO 220 Animal Diversity [5]
- ZOO 432 Principles of Toxicology [3]
- ZOO 410 Conservation Biology [3]
- ZOO 411 Environmental Risk Assessment [3]
- ZOO 433 Comparative Physiology *or*  
*ZOO 434 Environmental Physiology* [3]
- ZOO 482 Senior Seminar [1]

**Environmental Science Electives:** choose at least *six hours* from the following [6]

- CHEM 350 *and* 351 Biochemistry & lab [5]
- CSEM 240 Soil Science [4]
- FOR 429 Watershed Mgmt. Field Lab [2]
- GEOG 310i Digital Earth: Geospatial Tech. [3]
- GEOG 320 Intro Environmental Mgmt. [3]
- GEOG 330 Meteorology [3]
- GEOG 401 Introduction to GIS [3]
- GEOG 404 Spatial Analysis [3]
- GEOG 422 Economics Environ. Mgmt. [3]
- GEOG 424 Sustainable Development [3]
- GEOG 425 Integrated Water Management [3]
- GEOG 426 US Environmental Policy [3]
- GEOG 430 Environmental Systems Anal. [3]
- GEOG 434 Water Resources Hydrology [3]
- GEOG 439 Global Climate Change [3]
- GEOG 471 Environmental Impact Analysis [3]
- GEOL 220 *or* 222, and 223 Intro. Geology [4]
- GEOL 221 and 224 Historical Geology [4]
- MICR 301 Principles of Microbiology [4]
- PHSL 310 Principles of Physiology [5]
- PLB 440 Grassland Ecology [3]
- PLB 444 Quantitative Plant Ecology [4]
- PLB 452 Plant Population Ecology [4]

**Zoology Electives:** choose at least 12 hours from the following; no duplications [12]

- BIOL 304 Evolution [3]
- ZOO 351 Ecological Methods* [3]
- ZOO 415 Limnology [3]
- ZOO 426 Comparative Endocrinology [3]
- ZOO 433 Comparative Physiology [3]
- ZOO 434 Environmental Physiology* [3]
- ZOO 438 Plant-Animal Molec. Gen. Lab [3]
- ZOO 435 Plant-Insect Interactions [3]
- ZOO 443 Restoration Ecology [3]
- ZOO 444 Ecological Analysis Communities [3]
- ZOO 445 Wetland Ecology & Mgmt. [3]
- ZOO 458 Multiple Stressors in Ecology [3]
- ZOO 490 Energy, Food Webs, Ecosystems [3]
- ZOO 491, 492, 493 [max 3]

**Free Electives [1-4]**

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