

Individualized Curriculum in Zoology: B.S., **Animal Biology Specialization** (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

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Speech Communication [3]

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SPCM 101

**Disciplinary Studies**

Science [6]

Group I

CHEM 200, 201, 202

Group II

BIOL 211

Fine Arts [3]

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Social Science [6]

Human Health [2]

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Humanities [6]

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**Integrative Studies**

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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 [3]

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 [3]

MATH 282 Intro. Statistics *or* QUAN 402 Basic Statistics *or* PLB/ZOOL 360 Intro. Biostats

**Requirements for the Zoology Major (B.S., Animal Biology Specialization) [67-71 (+6)]**

**Biology Core [24]**

- BIOL 211 Introductory Cell Biology and Genetics [1(+3)]
- BIOL 212 Introductory Evolution and Ecology [4]
- BIOL 213 Introductory Organismal Biology [4]
- BIOL 304 Evolution [3]
- BIOL 305 Principles of Genetics [3]
- BIOL 306 Cell Biology [3]
- BIOL 307 Principles of Ecology [3]
- BIOL 409 Developmental Biology [3]

**Chemistry [7 (+3)]**

- CHEM 200, 202 Intro. Chemical Principles [4]
- CHEM 201 General Chemistry Lab I [1]
- CHEM 210, 212 Gen. & Inorganic Chem. [4]
- CHEM 211 General Chemistry Lab II [1]

**Quantitative Skills [6-8]**

- MATH 139 Finite Math *or* 141 Short Course in Calculus for Biological Sciences *or* 150 Calculus I
- CS 200B Computer Concepts 201 Problem Solving with Computers *or* 202 Intro. Computer Sci.

**Physical Sciences:** choose one of the following options [8-10]

- Chemistry [10]
  - CHEM 340 Organic Chemistry I [3]
  - CHEM 350 Intro. to Biological Chemistry [3]
  - CHEM 341 Organic Chem. Laboratory I [2]
  - CHEM 351 Biochemistry Laboratory [2]
- Geology [8]
  - GEOL 220 Dynamic Earth [3]
  - GEOL 221 Earth Through Time [3]
  - GEOL 223 Introductory Geology Lab [1]
  - GEOL 224 Earth Through Time Laboratory [1]
- Physics [8]
  - PHYS 203A and 253A College Physics A [4]
  - PHYS 203B and 253B College Physics B [4]

**Zoology Core [7]**

- ZOOL 215 Sophomore Seminar [1]
- ZOOL 220 Animal Diversity [5]
- ZOOL 482 Senior Seminar [1]

**Zoology Electives:** choose 15 hours from the following [15] (*italics* = not regularly offered)

- ZOOL 320 Vertebrate Zoology [3]
- ZOOL 385 Introduction to Marine Biology [3]
- ZOOL 405 Systematic Zoology [3]
- ZOOL 407 Parasitology [4]
- ZOOL 408 Herpetology [3]
- ZOOL 409 Vertebrate Histology [4]*
- ZOOL 410 Conservation Biology [3]
- ZOOL 413 The Invertebrates [4]*
- ZOOL 414 Freshwater Invertebrates [4]
- ZOOL 415 Limnology [3]
- ZOOL 418 Vertebrate Anatomy Lab [3]
- ZOOL 425 Invertebrate Paleontology [3]
- ZOOL 426 Comparative Endocrinology [3]
- ZOOL 433 Comparative Physiology [3]
- ZOOL 434 Environmental Physiology [3]*
- ZOOL 435 Plant-Insect Interaction [3]
- ZOOL 438 Plant-Animal Molec. Gen. Lab [3]
- ZOOL 444 Ecological Analysis Communities [3]
- ZOOL 450 Genome Evolution [3]
- ZOOL 461 Mammalogy [3]
- ZOOL 465 Ichthyology [3]
- ZOOL 467 Ornithology [3]
- ZOOL 471 Entomology [4]*
- ZOOL 472 Introduction to Systems Biology [3]
- ZOOL 478 Animal Behavior [3]
- ZOOL 490 Energ., Food Webs, Ecosystems [3]
- ZOOL 491, 492, 493 [max 3]

**Free Electives (1-7 hours)**

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