

Individualized Curriculum in Zoology: **B.A. Degree** (Revisions for 2017-2018)

Student Name: _____ Email: _____

Faculty Advisor: _____ Matriculation Date: _____

University Core Curriculum Courses (see Undergraduate Catalog for list of course options) (39 hours)

Foundation Skills

University College (1 hour)

- UCOL 101 Foundations of Inquiry

Composition (6 hours)

- _____
- _____

Mathematics (3 hours)

- MATH 108

Speech Communication (3 hours)

- CMST 101

Disciplinary Studies

Fine Arts (3 hours)

- _____

Human Health (2 hours)

- _____

Humanities (6 hours)

- _____
- _____

Science (6 hours)

Group I

- CHEM 200, 201, 202

Group II

- BIOL 211

Social Science (6 hours)

- _____
- _____
- _____

Integrative Studies: Multicultural (3 hours)

College of Science Requirements [7-10(+3)]

Biological Sciences: completed with the Zoology major

Mathematics: choose *one* of the following options

- MATH 108 College Algebra *and* 109 Trigonometry & Analytical Geometry, *or* MATH 111 Precalculus, *or* MATH 141 Short Course in Calculus for Biological Sciences [1-3(+3)]

Physical Sciences: completed with the Zoology major

Supportive Skills: choose *6 hours* from the following options [6]

- MATH 282 *or* QUAN 402 *or* ZOOL 360 [3]
- CS 105 *or* 200B [3]
- CS 201 [3] *or* 202 [4]
- ENGL 290 *or* 291 *or* 391 [3]
- Two semesters of Chinese, French, Latin, German, Greek, Japanese, Russian, or Spanish

Requirements for the Zoology Major (B.A.): 54-56

Biology Core [18]

- 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 307 Principles of Ecology [3]

Chemistry [2(+3)]

- CHEM 200, 202 Intro. to Chemical Principles *and* CHEM 201 General Chemistry Lab I

Physical Science: choose *one* of the following options [4-5]

- CHEM 210, 212 General and Inorganic Chemistry *and* CHEM 211 General Chemistry Lab II [5]
- PHYS 203A *and* 253A College Physics A and lab [4]
- GEOL 220 The Dynamic Earth *and* GEOL 223 Introductory Geology Laboratory [4]
- GEOL 221 Earth Through Time *and* GEOL 224 Earth Through Time Laboratory [4]

Quantitative Skills: choose *one* of the following options (*not* same as COS Supportive Skills) [3-4]

- CS 201 Problem Solving with Computers *or* CS 202 Introduction to Computer Science [3]
- MATH 141 Short Course in Calculus for Biological Sciences [4]
- MATH 282 Intro. to Statistics *or* QUAN 402 Basic Statistics *or* PLB 360 Intro. Biostatistics [3]

Zoology Core [7]

- ZOO 215 Sophomore Seminar [1]
- ZOO 220 Animal Diversity [5]

Zoology Electives: choose *20 hours* from the following [20] (*italics* = not regularly offered)

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|---|--|
| <input type="checkbox"/> BIOL 306 Cell Biology [3] | <input type="checkbox"/> ZOO 438 Plant-Animal Mol. Genetics Lab [3] |
| <input type="checkbox"/> BIOL 409 Developmental Biology [3] | <input type="checkbox"/> <i>ZOO 440 Wildlife Nutritional Ecology</i> [3] |
| <input type="checkbox"/> BIOL 415 History of Biology [3] | <input type="checkbox"/> ZOO 443 Restoration Ecology [3] |
| <input type="checkbox"/> ZOO 312i Conservation of Natural Resources [3] | <input type="checkbox"/> ZOO 444 Ecological Analysis Communities [4] |
| <input type="checkbox"/> ZOO 320 Vertebrate Zoology [3] | <input type="checkbox"/> ZOO 445 Wetland Ecology Management [3] |
| <input type="checkbox"/> <i>ZOO 351 Ecological Methods</i> [3] | <input type="checkbox"/> ZOO 450 Genome Evolution [3] |
| <input type="checkbox"/> ZOO 385 Introduction to Marine Biology [3] | <input type="checkbox"/> ZOO 458 Multiple Stressors in Ecology [3] |
| <input type="checkbox"/> ZOO 405 Systematic Zoology [3] | <input type="checkbox"/> ZOO 461 Mammalogy [3] |
| <input type="checkbox"/> ZOO 407 Parasitology [4] | <input type="checkbox"/> ZOO 462A, B Waterfowl Ecology & Lab [2, 1] |
| <input type="checkbox"/> ZOO 408 Herpetology [3] | <input type="checkbox"/> <i>ZOO 464 Wildlife Administration & Policy</i> [3] |
| <input type="checkbox"/> <i>ZOO 409 Vertebrate Histology</i> | <input type="checkbox"/> ZOO 465 Ichthyology [3] |
| <input type="checkbox"/> ZOO 410 Conservation Biology [3] | <input type="checkbox"/> ZOO 466 Fish Management [3] |
| <input type="checkbox"/> ZOO 411 Environ. Risk Assessment [3] | <input type="checkbox"/> ZOO 467 Ornithology [3] |
| <input type="checkbox"/> <i>ZOO 413 The Invertebrates</i> [4] | <input type="checkbox"/> ZOO 468 Wildlife Biology Principles [3] |
| <input type="checkbox"/> ZOO 414 Freshwater Invertebrates [4] | <input type="checkbox"/> ZOO 469 Wildlife Techniques [3] |
| <input type="checkbox"/> ZOO 415 Limnology [3] | <input type="checkbox"/> <i>ZOO 471 Entomology</i> [4] |
| <input type="checkbox"/> ZOO 418 Vertebrate Anatomy Lab [3] | <input type="checkbox"/> ZOO 472 Introduction to Systems Biology [3] |
| <input type="checkbox"/> ZOO 426 Comparative Endocrinology [3] | <input type="checkbox"/> ZOO 477 Aquaculture [3] |
| <input type="checkbox"/> ZOO 432 Principles of Toxicology [3] | <input type="checkbox"/> ZOO 478 Animal Behavior [3] |
| <input type="checkbox"/> ZOO 433 Comparative Physiology [3] | <input type="checkbox"/> ZOO 485 Special Topics in Zoology |
| <input type="checkbox"/> <i>ZOO 434 Environmental Physiology</i> [3] | <input type="checkbox"/> ZOO 490 Energy, Food Webs, Ecosystems [3] |
| <input type="checkbox"/> ZOO 435 Plant-Insect Interaction [3] | <input type="checkbox"/> ZOO 491, 492, 493 [max 3] |

Free Electives (16-21 hours): use these for a minor

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|--------------------------------|--------------------------------|
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
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