

Individualized Curriculum in Zoology: BA Degree (AY 2016-2017)
Recommended Courses for Zoo Keeping (Note: this is not a transcriptable specialization)

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)

- SPCM 101

Disciplinary Studies

Fine Arts (3 hours)

- _____

Human Health (2 hours)

- PHSL 201 and 208**

Science (6 hours)

Group I

- CHEM 200, 201

Group II

- BIOL 200A

Humanities (6 hours)

- _____
- G _____

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.): 50-52

Biology Core [14]

- BIOL 200A Introductory Cell Biology, Genetics and Evolution [1(+3)]
- BIOL 200B Introductory Organismal Biology and Ecology [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 [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 [6]

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

Zoology Electives: choose *at least 20 hours* from the following [20]

- BIOL 306 Cell Biology [3]
- BIOL 409 Developmental Biology [3]
- BIOL 415 History of Biology [3]
- ZOOLOGY 320 Vertebrate Zoology [3]
- *ZOOLOGY 351 Ecological Methods [3]*
- ZOOLOGY 385 Introduction to Marine Biology [3]
- ZOOLOGY 405 Systematic Zoology [3]
- **ZOOLOGY 407 Parasitology [4]**
- **ZOOLOGY 408 Herpetology [3]**
- *ZOOLOGY 409 Vertebrate Histology*
- **ZOOLOGY 410 Conservation Biology [3]**
- ZOOLOGY 411 Environ. Risk Assessment [3]
- *ZOOLOGY 413 The Invertebrates [4]*
- ZOOLOGY 414 Freshwater Invertebrates [4]
- ZOOLOGY 415 Limnology [3]
- ZOOLOGY 418 Vertebrate Anatomy Lab [3]
- **ZOOLOGY 426 Comparative Endocrinology [3]**
- **ZOOLOGY 432 Principles of Toxicology [3]**
- **ZOOLOGY 433 Comparative Physiology [3]**
- **ZOOLOGY 434 Environmental Physiology [3]**
- ZOOLOGY 435 Plant-Insect Interaction [3]
- ZOOLOGY 438 Plant-Animal Mol. Genetics Lab [3]
- **ZOOLOGY 440 Wildlife Nutritional Ecology [3]**
- ZOOLOGY 443 Restoration Ecology [3]
- ZOOLOGY 444 Ecological Analysis Communities [4]
- **ZOOLOGY 445 Wetland Ecology Management [3]**
- ZOOLOGY 450 Genome Evolution [3]
- ZOOLOGY 458 Multiple Stressors in Ecology [3]
- **ZOOLOGY 461 Mammalogy [3]**
- ZOOLOGY 462A, B Waterfowl Ecology & Lab [2, 1]
- *ZOOLOGY 463 Conservation Mgmt. Mammals [3]*
- **ZOOLOGY 464 Wildlife Admin. & Policy [3]**
- **ZOOLOGY 465 Ichthyology [3]**
- ZOOLOGY 466 Fish Management [3]
- **ZOOLOGY 467 Ornithology [3]**
- **ZOOLOGY 468 Wildlife Biology Principles [3]**
- **ZOOLOGY 469 Wildlife Techniques [3]**
- *ZOOLOGY 471 Entomology [4]*
- ZOOLOGY 472 Introduction to Systems Biology [3]
- *ZOOLOGY 473 Aquatic Entomology [3]*
- **ZOOLOGY 477 Aquaculture [3]**
- **ZOOLOGY 478 Animal Behavior [3]**
- ZOOLOGY 485 Special Topics in Zoology
- ZOOLOGY 490 Energy, Food Webs, Ecosystems [3]
- **ZOOLOGY 491 Internship (Wildlife Rehab.) [2]**

Free Electives (22-25 hours): **Minor in Animal Science (16 hours of ANS required)**

- **ANS 121 Introduction to Animal Science [3]**
- **ANS 122 Livestock Production Lab [1]**
- **ANS 215 Introduction to Nutrition [2]**
- **ANS 315 Feeds and Feeding [3]**
- **ANS 331 Growth & Development Physiol. [4]**
- **ANS 337 Animal Health [3]**
- **Choose one of the following:**
 - **ANS 415 Advanced Animal Nutrition [4]**
 - **ANS 425 Biochemical Aspects Nutrition [3]**
 - **ANS 431 Reproductive Physiology [4]**