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) Science (6 hours)

□ __________________________ Group I

□ __________________________ □ CHEM 200, 201

Human Health (2 hours) Group II

□ PHSL 201 and 208

□ __________________________ □ BIOL 200A

Humanities (6 hours) Social Science (6 hours)

□ __________________________ □ __________________________

□ __________________________ □ __________________________

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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]
□ 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 304 Evolution [3]
□ BIOL 305 Principles of Genetics [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]
- 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]
- ZOOL 215 Sophomore Seminar [1]
- ZOOL 220 Animal Diversity [5]

**Zoology Electives:** choose at least 20 hours from the following [20]
- ZOOL 306 Cell Biology [3]
- ZOOL 409 Developmental Biology [3]
- ZOOL 415 History of Biology [3]
- ZOOL 320 Vertebrate Zoology [3]
- ZOOL 351 Ecological Methods [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
- ZOOL 410 Conservation Biology [3]
- ZOOL 411 Environ. Risk Assessment [3]
- ZOOL 413 The Invertebrates [4]
- ZOOL 414 Freshwater Invertebrates [4]
- ZOOL 415 Limnology [3]
- ZOOL 418 Vertebrate Anatomy Lab [3]
- ZOOL 426 Comparative Endocrinology [3]
- ZOOL 432 Principles of Toxicology [3]
- ZOOL 433 Comparative Physiology [3]
- ZOOL 434 Environmental Physiology [3]
- ZOOL 435 Plant-Insect Interaction [3]
- ZOOL 440 Wildlife Nutritional Ecology [3]
- ZOOL 443 Restoration Ecology [3]
- ZOOL 444 Ecological Analysis Communities [4]
- ZOOL 450 Genome Evolution [3]
- ZOOL 458 Multiple Stressors in Ecology [3]
- ZOOL 461 Mammalogy [3]
- ZOOL 462A, B Waterfowl Ecology & Lab [2, 1]
- ZOOL 463 Conservation Mgmt. Mammals [3]
- ZOOL 464 Wildlife Admin. & Policy [3]
- ZOOL 465 Ichthyology [3]
- ZOOL 466 Fish Management [3]
- ZOOL 467 Ornithology [3]
- ZOOL 468 Wildlife Biology Principles [3]
- ZOOL 469 Wildlife Techniques [3]
- ZOOL 471 Entomology [4]
- ZOOL 472 Introduction to Systems Biology [3]
- ZOOL 473 Aquatic Entomology [3]
- ZOOL 477 Aquaculture [3]
- ZOOL 478 Animal Behavior [3]
- ZOOL 485 Special Topics in Zoology
- ZOOL 490 Energy, Food Webs, Ecosystems [3]
- ZOOL 491 Internship (Wildlife Rehab.) [2]
- ZOOL 492 Conservation Behavior [3]

**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]
- ANS 425 Biochemical Aspects Nutrition [3]
- ANS 431 Reproductive Physiology [4]