

Individualized Curriculum in Zoology: **B.A. Degree** (AY ≥ 2024-2025)
Recommended Courses for Zoo Keeping (Note: this is not a transcriptable specialization)

Student Name: _____ Email: _____

Faculty Mentor: _____ Matriculation Date: _____

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

Foundation Skills

University College [1]

UNIV 101 Foundations of Inquiry

Composition [6]

Mathematics [3]

MATH 108 or 111

Speech Communication [3]

CMST 101

Disciplinary Studies

Fine Arts [3]

Science [6]

Human Health [2]

Group I

CHEM 200, 201, 202

Humanities [6]

Group II

BIOL 211

Social Science [6]

Integrative Studies: Multicultural [3]

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 *or* Math 150 Calculus 1 [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 [3]
- Two semesters of Chinese, French, Latin, German, Greek, Japanese, Russian, Spanish, *or* American Sign Language

Requirements for the Zoology Major (B.A.) [50-52]

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. Chemical Principles [4] and CHEM 201 General Chemistry Lab I

Physical Sciences: 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 [7]

- ZOOLOGY 215 Sophomore Seminar [1]
- ZOOLOGY 220 Animal Diversity [5]
- ZOOLOGY 482 Senior Seminar [1] **Must pass with C or better to graduate**

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

- BIOL 306 Cell Biology [3]
- BIOL 409 Developmental Biology [3]
- ZOOLOGY 306 Fish Biology [3]
- ZOOLOGY 385 Introduction to Marine Biology [3]
- ZOOLOGY 403 Bee Identification Short Course [2]
- ZOOLOGY 405 Systematic Biology [3]
- ZOOLOGY 407 Parasitology [4]
- ZOOLOGY 408 Herpetology [3]
- ZOOLOGY 410 Conservation Biology [3]
- ZOOLOGY 411 Environmental Risk Assessment [3]
- ZOOLOGY 413 The Invertebrates [4]
- ZOOLOGY 414 Freshwater Invertebrates [4]
- ZOOLOGY 415 Limnology [3]
- ZOOLOGY 432 Principles of Toxicology [3]
- ZOOLOGY 433 Comparative Physiology [3]
- ZOOLOGY 491 Internship (Wildlife Rehab.) [2]
- ZOOLOGY 435 Pollination Ecology [3]
- ZOOLOGY/PLB 438 Plant-Animal Molec. Genetics Lab [3]
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- ZOOLOGY 458 Multiple Stressors in Ecology [3]
- ZOOLOGY 461 Mammalogy [3]
- ZOOLOGY 462A, B Waterfowl Ecology & Lab [2, 1]
- ZOOLOGY 464 Wildlife Administration & 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 477 Aquaculture [3]
- ZOOLOGY 478 Animal 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]
- Choose *one* of the following:
 - ANS 415 Advanced Animal Nutrition [4]
 - ANS 425 Biochemical Aspects Nutrition [3]
- ANS 431 Reproductive Physiology [4]