

Individualized Curriculum in Zoology: B.S., **Animal Biology Specialization** (AY ≥ 2024-2025)

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

Science [6]

Group I

CHEM 200, 201, 202

Group II

BIOL 211

Fine Arts [3]

Social Science [6]

Human Health [2]

Humanities [6]

Integrative Studies

Multicultural [3]

School of Biological Sciences Requirements [10-12]

Biological Sciences: completed with the Zoology major

Mathematics: choose *one* of the following options [4-6]

MATH 108 College Algebra *and* MATH 109 Trigonometry & Analytical Geometry [6]

MATH 111 Precalculus [4]

Physical Sciences: completed with the Zoology major

Supportive Skills [6]

Technical Writing [3]

ENGL 290 Intermediate Analytical Writing *or* 291 Intermediate Technical Writing
or JRNL 310 Writing for the Mass Media

Statistics [3]

MATH 282 Intro. to Statistics, QUAN 402 Basic Statistics *or* ZOOL/PLB 360 Intro. Biostatistics

Requirements for the Zoology Major (B.S., Animal Biology Specialization) [70-74]

Biology Core [24]

- BIOL 211 Introductory Cell Biology and Genetics [4]
- BIOL 212 Introductory Evolution and Ecology [4]
- BIOL 213 Introductory Organismal Biology [4]
- BIOL 304 Evolution [3] *or* BIOL 409 Developmental Biology [3]
- BIOL 305 Principles of Genetics [3] **Take as early as possible as it is the prerequisite for BIOL 409**
- BIOL 306 Cell Biology [3]
- BIOL 307 Principles of Ecology [3]

Chemistry [10]

- 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 [3] *or* MATH 141 Short Course in Calculus *or* MATH 150 Calculus I [4]
- CS 200B Computer Concepts 201 Problem Solving with Computers *or* 202 Intro. Computer Sci. [3]

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] **Must pass with C or better to graduate**

Zoology Electives: choose *fifteen* hours from the following (no duplications) [15]

- GEOG 401 Introduction to GIS [3]
- GEOG 404 Spatial Analysis [3]
- ZOOL 320 Vertebrate Zoology [3]
- ZOOL 385 Introduction to Marine Biology [3]
- ZOOL 403 Bee Identification Short Course [2]
- ZOOL 405 Systematic Biology [3]
- ZOOL 407 Parasitology [4]
- ZOOL 408 Herpetology [3]
- ZOOL 410 Conservation Biology [3]
- ZOOL 413 The Invertebrates [4]
- ZOOL 414 Freshwater Invertebrates [4]
- ZOOL 415 Limnology [3]
- ZOOL 433 Comparative Physiology [3]
- ZOOL 435 Pollination Ecology [3]
- ZOOL/PLB 438 Plant-Animal Molec. Gen. Lab [3]
- ZOOL 461 Mammalogy [3]
- ZOOL 462A, B Waterfowl Ecology & Mgmt. [3]
- ZOOL 465 Ichthyology [3]
- ZOOL 467 Ornithology [3]
- ZOOL 468 Wildlife Biology Principles [3]
- ZOOL 471 Entomology [3]
- ZOOL 478 Animal Behavior [3]
- ZOOL 491, 492, 493 [max 3 credits]

15 hour requirement is stated in the SIU Undergraduate Catalog.

Free Electives (8-12 hours. Must be 300-level or higher)

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