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
□_________________________ □ MATH 108 or 111

Disciplinary Studies

Science [6] □_________________________ Group II □ BIOL 211
Group I □ CHEM 200, 201, 202
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 305 Principles of Genetics [3] **Take as early as possible as it is the prerequisite for BIOL 409**
- BIOL 306 Cell Biology [3]

**Chemistry** [10]
- CHEM 201 General Chemistry Lab I [1]
- CHEM 201 General Chemistry Lab I [1]

**Quantitative Skills** [6-8]
- MATH 139 Finite Math [3] or MATH 141 Short Course in Calculus or MATH 150 Calculus I [4]

**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 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]

**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 461 Mammalogy [3]
- ZOOL 462A, B Waterfowl Ecology & Mgmt. [3]
- ZOOL 463A, B 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]
- 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)
- 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 461 Mammalogy [3]
- ZOOL 462A, B Waterfowl Ecology & Mgmt. [3]
- ZOOL 463A, B 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]