

Individualized Curriculum in Zoology: **B.S. Environmental Biology** (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., Environmental Biology Specialization): [76-77]

Biology Core [21]

- 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 307 Principles of Ecology [3]
- BIOL 409 Developmental Biology [3]

Chemistry [15]

- CHEM 200, 202 Intro. Chemical Principles [4]
- CHEM 201 General Chemistry Lab I [1]
- CHEM 340 Intro. Organic Chemistry [3]
- CHEM 210, 212 Gen. & Inorganic Chem. [4]
- CHEM 211 General Chemistry Lab II [1]
- CHEM 341 Organic Chemistry Lab I [2]

Mathematics [3-4]

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

Zoology Core [19]

- ZOOL 215 Sophomore Seminar [1]
- ZOOL 220 Animal Diversity [5]
- ZOOL 410 Conservation Biology [3]
- ZOOL 411 Environmental Risk Assessment [3]
- ZOOL 432 Principles of Toxicology [3]
- ZOOL 433 Comparative Physiology [3]
- ZOOL 482 Senior Seminar [1] **Must pass with C or better to graduate**

Environmental Science Electives: choose at least *six hours* from the following [6]

- CHEM 350 *and* 351 Biochemistry & Lab [5]
- CSEM 240 Soil Science [4]
- FOR 429 Watershed Mgmt. Field Lab [2]
- GEOG 310i Digital Earth: Geospatial Tech. [3]
- GEOG 320 Intro Environmental Mgmt. [3]
- GEOG 330 Physical Climatology, Meteorology [3]
- GEOG 401 Introduction to GIS [3]
- GEOG 404 Spatial Analysis [3]
- GEOG 422 Economics Environ. Mgmt. [3]
- GEOG 424 Sustainable Development [3]
- GEOG 434 Water Resources Hydrology [3]
- GEOG 439 Global Climate Change [3]
- GEOL 220 *or* 222, and 223 Intro. Geology [4]
- GEOL 221 and 224 Historical Geology [4]
- MICR 301 Principles of Microbiology [4]
- PHSL 310 Principles of Physiology [5]
- PLB 440 Grassland Ecology [3]
- PLB 444 Quantitative Plant Ecology [4]
- PLB 452 Plant Population Ecology [4]

Zoology Electives: choose *twelve hours* from the following (no duplications) [12]

- BIOL 304 Evolution [3]
- ZOOL 403 Bee Identification Short Course [2]
- ZOOL 415 Limnology [3]
- ZOOL 435 Pollination Ecology [3]
- ZOOL 468 Wildlife Biology Principles [3]
- ZOOL 471 Entomology [3]
- ZOOL 491, 492, 493 [max 3 credits]

Free Electives (4-7 hours)

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