Individualized Curriculum in Zoology: B.S., **Pre-Veterinary Science Specialization** (Revisions for 2017-2018)

Student Name: _____ Email:_____

Faculty Mentor: _____ Matriculation Date: _____

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

University College [1] □ UCOL 101 Foundations of Inquiry

Composition [6]

□ _____

□ _____

Mathematics [3]

□ *MATH 108 or 111*

Speech Communication [3]

□ SPCM 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]

□ _____

College of Science Requirements: 7-9 (+3) hours

Biological Sciences: completed with the Zoology major

Mathematics: choose *one* of the following options [1-3 (+3)]

□ MATH 108 College Algebra *and* MATH 109 Trigonometry & Analytical Geometry [3 (+3)]

□ MATH 111 Precalculus [1 (+3)]

Physical Sciences: completed with the Zoology major

Supportive Skills [6]

□ Technical Writing [3]

ENGL 290 Intermediate Analytical Writing *or* 291 Intermediate Technical Writing *or* 391 Precision in Reading and Writing *or* JRNL 310 Writing for the Mass Media

□ Statistics [3]

MATH 282 Intro. to Statistics *or* QUAN 402 Basic Statistics *or* ZOOL 360 Intro. Biostats

Requirements for the Zoology Major (B.S., Pre-Veterinary Science Specialization): 74-75 hours

Biology Core [21 (+3)]

- □ 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 306 Cell Biology [3]
- □ BIOL 409 Developmental Biology [3]

Chemistry [17 (+3)]

- □ CHEM 200, 202 Intro. to Chem. Principles [4]
- □ CHEM 201 General Chemistry Lab I [1]
- □ CHEM 210, 212 Gen. & Inorganic Chem. [4]
- □ CHEM 211 General Chemistry Lab II [1]
- □ CHEM 340 Organic Chemistry I [3]
- □ CHEM 341 Organic Chem. Laboratory I [2]
- □ CHEM 350 Intro. to Biological Chemistry [3]
- □ CHEM 351 Biochemistry Laboratory [2]

Quantitative Skills: choose *one* of the following [3-4]

- □ CS 200B Computer Concepts [3]
- □ CS 201 Problem Solving with Computers [3]
- □ MATH 139 Finite Math [3]
- □ MATH 141 Calculus for Biosciences [4]

Physics [8]

- □ PHYS 203A College Physics [3]
- □ PHYS 253A College Physics Lab [1]
- □ PHYS 203B College Physics [3]
- □ PHYS 253B College Physics Lab [1]

Zoology Core [7]

- □ ZOOL 215 Sophomore Seminar [1]
- □ ZOOL 482 Senior Seminar [1]
- □ ZOOL 220 Animal Diversity [5]

Zoology Electives: 9 hours from the following (no duplication) [9] (*italics* = not regularly offered)

- □ ZOOL 320 Vertebrate Zoology [3]
- □ *ZOOL 434 Environmental Physiology [3]*
- □ ZOOL 407 Parasitology [4]
- □ ZOOL 438 Plant-Animal Molec. Gen. Lab. [3]
- □ *ZOOL 409 Vertebrate Histology [4]*
- □ *ZOOL 440 Wildlife Nutritional Ecology [3]*
- □ *ZOOL 413 The Invertebrates [4]*
- □ ZOOL 461 Mammalogy [3]
- □ ZOOL 418 Vertebrate Anatomy Lab [3]
- □ ZOOL 467 Ornithology [3]
- □ ZOOL 426 Comparative Endocrinology [3]
- □ ZOOL 478 Animal Behavior [3]
- □ ZOOL 432 Principles of Toxicology [3]
- □ ZOOL 491, 492, 493 [max 3]
- □ ZOOL 433 Comparative Physiology [3]

Pre-Veterinary Electives: choose *six* hours from the following [6]

- □ ANS 337 Animal Health [3]
- □ MICR 460 Bacterial and Viral Genetics [3]
- □ BIOL 307 Principles of Ecology [3]
- □ PHSL 310 Principles of Physiology [5]
- □ MICR 301 Principles of Microbiology [4]
- □ PHSL 410A Mammalian Physiology [4]
- □ MICR 302 Molecular Biology [3]
- □ PHSL 410B Mammalian Physiology [4]
- □ MICR 403 Medical Microbiology Lecture [3]
- □ PHSL 430 Cellular & Molecular Physiology [3]

Free Electives (0-1 hours)

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