

ZOOLOGY MAJOR

GRADUATION REQUIREMENTS

1. Complete all Zoology Core, Major Electives, Physical Sciences/Math, and AUCC Requirements.
2. **Minimum of 120 total credits.**
3. Minimum of **42 upper division credits** (300 level or above).
*30 upper division credits must be in-residence at CSU
4. Minimum of **2.0 CUMULATIVE GPA.**

ALL UNIVERSITY CORE CURRICULUM (AUCC)

Must earn at least a **2.0 cumulative GPA in the AUCC courses.**

Category 1

1A Written Communication: CO 150 (3 credits) _____

1C Diversity, Equity, and Inclusion (3 credits) _____

Category 2

Additional Communication (3 credits) _____
Advanced Writing _____

Category 3

3B Arts/Humanities (6) _____

3C Social/Behavioral (3) _____

3D Historical Perspectives (3) _____

Category 4: Depth and Integration

LIFE 320 and BZ 350 (see CORE Requirements below)

GRADE REQUIREMENTS

Must earn at least a **C-** in all the Zoology Core, Major Electives, and Physical Sciences/Math courses. This also applies to courses taken as substitutions for these requirements.

ZOOLOGY CORE REQUIREMENTS

LIFE 102 Attributes of Living Systems (4) _____

LIFE 103 Biology of Organisms (4) _____

BZ 220 Introduction to Evolution (3) _____

BZ 212 Animal Bio: Invertebrates (4) _____

BZ 214 Animal Bio: Vertebrates (4) _____

BZ 310 Cell Biology (4) _____

BZ 350 Molecular & General Genetics (4) _____

LIFE 320 Ecology (3) _____

MAJOR ELECTIVES

Select a minimum of 15 credits of electives listed on back of the check sheet.

PHYSICAL SCIENCES/MATH

CHEMISTRY

CHEM 111 (4) _____ CHEM 112 (1) _____

AND

CHEM 113 (3) _____ CHEM 114 (1) _____

ORGANIC CHEMISTRY

CHEM 245 (4) _____ CHEM 246 (1) _____

OR

CHEM 341 (3) _____ CHEM 343 (3) _____

CHEM 344 (2) _____

BIOCHEMISTRY

BC 351 (4) _____

OR

BC 401 (3) _____ BC 403 (3) _____

PHYSICS

PH 121 (5) _____ PH 122 (5) _____

OR

PH 141 (5) _____ PH 142 (5) _____

CALCULUS

MATH 155 (4) _____ **OR** MATH 160 (4) _____

STATISTICS

STAT 301 (3) _____ **OR** STAT 307 (3) _____

***With approval of the Curriculum Committee, up to 3 credits of the following can be applied toward a student's major electives:**

*BZ 384 Supervised College Teaching

*BZ 487 Internship

*BZ 495 Independent Study

*BZ 498 Laboratory or Field Research

Criteria

- Cumulative GPA: 2.5 GPA in major: 3.0

- Junior standing or higher.

The following is a list of Zoology-related electives that can be used to fulfill the Major Electives requirement:

ANEQ 320 (4)	Principles of Animal Nutrition	BZ 462 (5)	Parasitology & Vector Biology
ANEQ 322 (2)	Pet Nutrition	BZ 476 (3)	Genetics of Model Organisms
ANEQ 323 (2)	Zoo Nutrition	BZ 477 (2)	Genome Editing
ANTH 470 (4)	Paleontology Field School	BZ 478 (3)	Biology & Behavior of Cats (online)
BSPM 302 (2)	Applied & Gen Entomology	BZ 479 (3)	Biology & Behavior of Dogs (online)
BSPM 303A (2)	Applied & Gen Entomology Lab	BZ 482C (3)	Study Abroad-Mexico: Marine Biol. & Ecology
BZ 300 (3)	Animal Behavior	BZ 482D (3)	Study Abroad-Kenya: Behavior & Biology of African Mammals
BZ 311 (4)	Developmental Biology	BZ 492A-G	Seminar (topic dependent on instructor)
BZ 329 (4)	Herpetology	BZ 496 (1)	Group Study – Biology (Honors)
BZ 330A (3)	Mammalogy lecture	BZ 510 (3)	Zoophysiological Ecology
BZ 330B (1)	Mammalogy lab (required with lecture)	BZ 515 (3)	Physiological Ecology of Marine Vertebrates
BZ 335 (3)	Ornithology	BZ 535 (3)	Behavioral & Cognitive Ecology
BZ 340 (4)	Field Mammalogy	BZ 560 (3)	Teaching & Communicating Science
BZ 342 (3)	Exploring Range Shifts in a Changing World	BZ 565 (1)	Next Generation Sequencing
BZ 348 (4)	Theory of Pop. & Evolutionary Ecology	GEOL 342 (3)	Paleontology
BZ 349 (3)	Tropical Ecology & Evolution	FW 300 (2)	Biology & Diversity of Fishes
BZ 360 (3)	Bioinformatics & Genomics	FW 301 (1)	Ichthyology Lab
BZ 401 (3)	Comparative Animal Physiology	FW 400 (3)	Conservation of Fish in Aquatic Ecosystems
BZ 415 (4)	Marine Biology	FW 405 (3)	Fish Physiology
BZ 418 (4)	Ecology of Infectious Disease	NR 312 (3)	Applied Insect Technology
BZ 420 (3)	Evolutionary Medicine		
BZ 424 (3)	Principles of Systematic Zoology		
BZ 425 (3)	Conservation & Population Genomics		
BZ 430 (3)	Animal Behavior & Conservation		
BZ 433 (4)	Behavioral Genetics		
BZ 435 (2)	Study Abroad-Honduras: Dolphin Behavior & Physiology		
BZ 449A (4)	Study Abroad-Ecuador: Ecology/Conservation-Ecuadorian Biodiversity		
BZ 455 (3)	Human Heredity & Birth Defects		
BZ 460 (4)	Genome Evolution		
BZ 471 (3)	Stream Biology & Ecology		
BZ 472 (1)	Stream Biology & Ecology Lab		
BZ 475 (3)	Marine Mammalogy		

Up to 6 credits may be used from the following courses:

BMS 300 (4)	Principles of Human Physiology
BMS 305 (4)	Domestic Animal Gross Anatomy
MIP 300 (3)	General Microbiology
MIP 302 (2)	General Microbiology Lab
MIP 315 (3)	Human & Animal Disease
MIP 342 (4)	Immunology
MIP 343 (2)	Immunology Lab

TRACK 1 HONORS PROGRAM STUDENTS ARE REQUIRED TO TAKE THE FOLLOWING COURSES TO FULFILL THE AUCC CURRICULUM

Category 1: Basic Competencies

HONR 192 First Year Seminar (4) _____

HONR 193 Seminar (3) _____

Category 2: Additional Communication

Advanced Writing (3) _____

Category 3B: Arts/Humanities

HONR 292 Seminar (3) _____ (For students entering Fall 2015 and later)

OR

Additional Arts/Humanities (3) _____ (For students entering before Fall 2015)

HONR 392 Seminar (3) _____

Category 3C: Social/Behavioral

HONR 492 Senior Seminar (3) _____

Category 3D: Historical Perspectives and 1C: Diversity, Equity, and Inclusion

HONR 399 Pre-Thesis (1) _____

HONR 499 Thesis (3) _____