**ZOOLOGY MAJOR**

NAME: ____________________________

**GRADUATION REQUIREMENTS**

1. Complete all Biology Core, Upper Division Zoology, 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.

**GRADE REQUIREMENTS**

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

**BIOLOGY CORE REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIFE102 Attributes of Living Systems</td>
<td>(4)</td>
</tr>
<tr>
<td>LIFE103 Biology of Organisms</td>
<td>(4)</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>BZ110 Principles of Animal Bio</td>
<td>(3)</td>
</tr>
<tr>
<td>BZ111 Principles of Animal Lab</td>
<td>(1)</td>
</tr>
<tr>
<td>BZ120 Principles of Plant Biology</td>
<td>(4)</td>
</tr>
<tr>
<td>BZ212 Animal Bio: Invertebrates</td>
<td>(4)</td>
</tr>
<tr>
<td>BZ214 Animal Bio: Vertebrates</td>
<td>(4)</td>
</tr>
<tr>
<td>BZ220 Introduction to Evolution</td>
<td>(3)</td>
</tr>
<tr>
<td>LIFE320 Ecology</td>
<td>(3)</td>
</tr>
<tr>
<td>BZ310 Cell Biology</td>
<td>(4)</td>
</tr>
<tr>
<td>BZ350 Molecular &amp; General Genetics</td>
<td>(4)</td>
</tr>
</tbody>
</table>

**UPPER DIVISION ZOOLOGY**

Select a minimum of 15 credits of upper division courses listed on back of check sheet.

**PHYSICAL SCIENCES/MATH**

**CHEMISTRY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM111(4)___ CHEM112(1)___</td>
<td></td>
</tr>
<tr>
<td>AND</td>
<td></td>
</tr>
<tr>
<td>CHEM113(3)___ CHEM114(1)___</td>
<td></td>
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</tbody>
</table>

**ORGANIC CHEMISTRY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM245 (4)___ CHEM246 (1)___</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>CHEM341(3)<em><strong>CHEM343 (3)</strong></em> CHEM344 (2)___</td>
<td></td>
</tr>
</tbody>
</table>

**BIOCHEMISTRY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC351 (4)___</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>BC401 (3)___ BC403 (3)___</td>
<td></td>
</tr>
</tbody>
</table>

**PHYSICS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH121 (5)___ PH122 (5)___</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>PH141 (5)___ PH142 (5)___</td>
<td></td>
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</tbody>
</table>

**CALCULUS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH155 (4)___ OR MATH160 (4)___</td>
<td></td>
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</tbody>
</table>

**STATISTICS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT301 (3)___ OR STAT307 (3)___</td>
<td></td>
</tr>
</tbody>
</table>

Requirements for earning credit for Internships, Research, Independent Study, and Supervised Teaching (BZ384, BZ487, BZ495, BZ498).

- Cumulative GPA: 2.5 GPA in major: 3.0
- Junior standing or higher.

With approval of the Curriculum Committee, up to 3 credits can be applied toward a student's Selected/Additional Field requirements.

**ALL UNIVERSITY CORE CURRICULUM (AUCC)**

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

**Category 1**

1A Written Communication (3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO150</td>
<td></td>
</tr>
</tbody>
</table>

**Category 2**

2 Additional Communication (3 credits)

Advanced Writing

**Category 3**

3B Arts/Humanities (6)

Social/Behavioral

Historical Perspectives (3)

Diversity & Cultural Awareness (3)

**Category 4: Depth and Integration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIFE320 ___ and BZ350 ___</td>
<td></td>
</tr>
</tbody>
</table>
The following is a list of Zoology classes that will fulfill the Upper Division requirements:

*With the approval of the Biology Curriculum Committee, a maximum of 3 credits from these classes may be applied toward the 15 credits of Upper Division Zoology courses.

- BSPM302 (2) Applied and Gen Entomology
- BSPM303A (2) Applied and Gen Entomology Lab
- BZ300 (3) Animal Behavior
- BZ311 (4) Developmental Biology
- BZ329 (3) Herpetology
- BZ330 (3) Mammalogy
- BZ335 (3) Ornithology
- BZ346 (3) Population & Evolutionary Genetics
- BZ/MATH348 (4) Theory of Pop. & Evol. Ecology
- BZ349 (3) Tropical Ecology & Evolution
- BZ360 (3) Bioinformatics and Genomics
- BZ401 (3) Comparative Animal Physiology
- BZ415 (4) Marine Biology
- BZ418 (4) Ecology of Infectious Disease
- BZ420 (3) Evolutionary Medicine
- BZ/BSPM/MIP424 (3) Principles of Systematic Zoology
- BZ425 (3) Molecular Ecology
- BZ430 (3) Animal Behavior & Conservation
- BZ433 (4) Behavioral Genetics
- BZ449A (4) Study Abroad: Ecology/Conservation-Ecuadorian Biodiversity
- BZ455 (3) Human Heredity and Birth Defects
- BZ460 (4) Genome Evolution
- BZ/BSPM/MIP462 (5) Parasitology & Vector Biology
- BZ466 (4) Biological Basis of Animal Behavior
- BZ471 (3) Stream Biology & Ecology
- BZ472 (1) Stream Biology & Ecology Lab
- BZ474 (3) Limnology
- BZ476 (3) Genetics of Model Organisms
- BZ479 (3) Biology and Behavior of Dogs (Online)
- BZ492A-G Seminar (excluding plant seminars)
- BZ496 (1) Group Study for Field Marine Biology
- BZ505 (3) Cognitive Ecology
- BZ510 (3) Zoophysiological Ecology
- BZ515 (3) Physiological Ecology of Marine Vertebrates
- BZ535 (3) Behavioral Ecology
- BZ/MIP577 (2) Computer Analysis in Population Genetics
- BZ/MIP578 (4) Genetics of Natural Populations
- GEOL342 (3) Paleontology
- FW300 (2) Biology & Diversity of Fishes
- FW301 (1) Ichthyology Lab
- FW400 (3) Conservation of Fish in Aquatic Ecosystems
- FW405 (3) Fish Physiology
- *BZ 384 Supervised College Teaching
- *BZ 487 Internship
- *BZ 495 Independent Study
- *BZ 498 Lab/Field Research

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

- BMS 300 (4) Principles of Human Physiology
- OR
- BMS 360 (4) Fundamentals of Physiology
- BMS 305 (4) Domestic Animal Gross Anatomy
- MIP 300 (3) General Microbiology
- MIP 302 (2) General Microbiology Lab
- MIP 315 (3) Human and Animal Disease
- MIP 342 (4) Immunology
- MIP 343 (2) Immunology Lab

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

**Category 1: Basic Competencies**

- HONR192 First Year Seminar (4) ________________________
- HONR193 Seminar (3) ____________________________

**Category 2: Additional Communication**

- Advanced Writing (3) ____________________________

**Category 3B: Arts/Humanities**

- HONR292 Seminar (3) ____________________________ (For students entering Fall 2015 and later)
- OR
- Additional Arts/Humanities (3) ____________________________ (For students entering before Fall 2015)
- HONR392 Seminar (3) ____________________________

**Category 3C: Social/Behavioral**

- HONR492 Senior Seminar (3) ____________________________

**Category 3D: Historical Perspectives and 3E: Global & Cultural Awareness**

- HONR399 Pre-Thesis (1) ____________________________
- HONR499 Thesis (3) ____________________________