

# MAJOR IN FISH, WILDLIFE, AND CONSERVATION BIOLOGY, CONSERVATION BIOLOGY CONCENTRATION

The Conservation Biology concentration focuses on understanding the ecological processes necessary to conserve biological diversity, with an emphasis on fish and wildlife species and their habitats. This concentration has a broader coverage across both the fish and wildlife disciplines, including the systems that support them (soils, water, forests,

fire, geology). There is also a more focused exploration of the human, historical, and political aspects that have shaped conservation efforts and what can be done to ensure sustainable practices and management of natural resources.

## Requirements Effective Fall 2024

A minimum grade of C (2.000) is required in all biological, mathematical/statistical, physical science, fish, wildlife, and conservation biology and natural resource courses used to meet graduation requirements for the fish, wildlife, and conservation biology major. The minimum applies to courses taken as substitutions for meeting these requirements.

### Freshman

|  |   | AUCC | Credits      |
|--|---|------|--------------|
| CO 150   | College Composition (GT-CO2)                      | 1A   | 3            |
| FW 104   | Wildlife Ecology and Conservation (GT-SC2)        | 3A   | 3            |
| FW 179   | New-to-the-Major Seminar                          |      | 1            |
| Select one group from the following:   |   |      | 8            |
| Group A:   |   |      |              |
| BZ 110   | Principles of Animal Biology (GT-SC2)             | 3A   |              |
| BZ 111   | Animal Biology Laboratory (GT-SC1)                | 3A   |              |
| BZ 120   | Principles of Plant Biology (GT-SC1)              | 3A   |              |
| Group B:   |   |      |              |
| LIFE 102 <sup>1</sup>  | Attributes of Living Systems (GT-SC1)             | 3A   |              |
| LIFE 103 <sup>1</sup>  | Biology of Organisms-Animals and Plants (GT-SC1)  | 3A   |              |
| Select one set of chemistry and physics courses from the following:  |   |      | 13-15        |
| Group A:   |   |      |              |
| CHEM 107   | Fundamentals of Chemistry (GT-SC2)                | 3A   |              |
| CHEM 108   | Fundamentals of Chemistry Laboratory (GT-SC1)     | 3A   |              |
| PH 121   | General Physics I (GT-SC1)                        | 3A   |              |
| PH 122   | General Physics II (GT-SC1)                       | 3A   |              |
| Group B:   |   |      |              |
| CHEM 111   | General Chemistry I (GT-SC2)                      | 3A   |              |
| CHEM 112   | General Chemistry Lab I (GT-SC1)                  | 3A   |              |
| CHEM 113   | General Chemistry II                              |      |              |
| CHEM 114   | General Chemistry Lab II                          |      |              |
| PH 110   | Physics of Everyday Phenomena (GT-SC2)            | 3A   |              |
| PH 111   | Physics of Everyday Phenomena Laboratory (GT-SC1) | 3A   |              |
| Diversity, Equity, and Inclusion ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion</a> ) |   | 1C   | 3            |
| <b>Total Credits</b>   |   |      | <b>31-33</b> |

### Sophomore

|                                       |                                   |  |     |
|---------------------------------------|-----------------------------------|--|-----|
| FW 260                                | Principles of Wildlife Management |  | 3   |
| LIFE 320                              | Ecology                           |  | 3   |
| Select one course from the following: |                                   |  | 3-4 |
| BZ 220                                | Introduction to Evolution         |  |     |
| BZ 350                                | Molecular and General Genetics    |  |     |
| SOCR 330                              | Principles of Genetics            |  |     |
| Select one course from the following: |                                   |  | 3   |
| HONR 499 <sup>2</sup>                 | Senior Honors Thesis              |  |     |

|  |  |       |  |              |
|--|--|-------|--|--------------|
| SPCM 200 <sup>2</sup>  | Public Speaking  |       |  | 4            |
| Select one course from the following:  |  |       |  |              |
| MATH 155   | Calculus for Biological Scientists I (GT-MA1)            | 1B    |  |              |
| MATH 160   | Calculus for Physical Scientists I (GT-MA1)              | 1B    |  |              |
| Select one course from the following:  |  |       |  | 3            |
| STAT 301   | Introduction to Applied Statistical Methods              |       |  |              |
| STAT 307   | Introduction to Biostatistics                            |       |  |              |
| Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )                                  |  | 3B    |  | 6            |
| Social and Behavioral Sciences ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences</a> ) |  | 3C    |  | 3            |
| <b>Total Credits</b>   |  |       |  | <b>28-29</b> |
| <b>Summer</b>  |  |       |  |              |
| NR 220   | Natural Resource Ecology and Measurements                |       |  | 5            |
| <b>Total Credits</b>   |  |       |  | <b>5</b>     |
| <b>Junior</b>  |  |       |  |              |
| FW 370   | Design of Fish and Wildlife Projects                     | 4A,4B |  | 3            |
| Select one group from the following:   |  |       |  | 4-7          |
| Group A:   |  |       |  |              |
| BSPM 302   | Applied and General Entomology                           |       |  |              |
| BSPM 303A  | Entomology Laboratory: General                           |       |  |              |
| Group B:   |  |       |  |              |
| BZ 212   | Animal Biology-Invertebrates                             |       |  |              |
| NR 312   | Applied Insect Ecology                                   |       |  |              |
| Select two courses or course pair for 6-7 credits not taken elsewhere from the following:  |  |       |  | 6-7          |
| BZ 214   | Animal Biology-Vertebrates                               |       |  |              |
| BZ 329   | Herpetology  |       |  |              |
| BZ 330   | Mammalogy  |       |  |              |
| BZ 335   | Ornithology  |       |  |              |
| FW 300<br>& FW 301 <sup>3</sup>  | Biology and Diversity of Fishes                          |       |  |              |
| Select one Plant Biology course from the following:  |  |       |  | 3-4          |
| BZ 223   | Plant Identification                                     |       |  |              |
| BZ 325   | Plant Systematics  |       |  |              |
| BZ 450   | Plant Ecology  |       |  |              |
| F 311  | Forest Ecology   |       |  |              |
| RS 300   | Rangeland Conservation and Stewardship                   |       |  |              |
| RS 313/F 313   | Dendrology and Herbaceous Plant ID                       |       |  |              |
| Select one course from the following:  |  |       |  | 3            |
| CO 300   | Writing Arguments (GT-CO3)                               | 2     |  |              |
| CO 301A  | Writing in the Disciplines: Arts and Humanities (GT-CO3) | 2     |  |              |
| CO 301B  | Writing in the Disciplines: Sciences (GT-CO3)            | 2     |  |              |
| CO 301C  | Writing in the Disciplines: Social Sciences (GT-CO3)     | 2     |  |              |
| CO 301D  | Writing in the Disciplines: Education (GT-CO3)           | 2     |  |              |
| JTC 300  | Strategic Writing and Communication (GT-CO3)             | 2     |  |              |
| Select one course from the following:  |  |       |  | 3-4          |
| FW 310   | Mapping Diverse Perspectives in Conservation             |       |  |              |
| FW 325   | Spatial Ecology--Applications with R                     |       |  |              |
| NR 319   | Introduction to Geospatial Science                       |       |  |              |
| Historical Perspectives ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives</a> )              |  | 3D    |  | 3            |
| <b>Total Credits</b>   |  |       |  | <b>25-31</b> |

**Senior**

|  |   |     |
|--|---|-----|
| Select one Aquatic Biology course or course pair not taken elsewhere from the following: |   | 3-4 |
| BZ 415   | Marine Biology                                |     |
| BZ 471<br>& BZ 472   | Stream Biology and Ecology                    |     |
| ESS 474  | Limnology                                     |     |
| FW 300<br>& FW 301   | Biology and Diversity of Fishes               |     |
| FW 400   | Conservation of Fish in Aquatic Ecosystems    |     |
| FW 401   | Fishery Science                               |     |
| FW 402   | Fish Culture                                  |     |
| FW 405   | Fish Physiology                               |     |
| FW 430   | Waterfowl Ecology and Management              |     |
| FW 568/BZ 568  | Sustaining River Ecosystems in Changing World |     |
| Select one Wildlife Course not taken elsewhere from the following:                       |   | 3-4 |
| FW 310   | Mapping Diverse Perspectives in Conservation  |     |
| FW 325   | Spatial Ecology--Applications with R          |     |
| FW 375   | Field Wildlife Studies                        |     |
| FW 430   | Waterfowl Ecology and Management              |     |
| FW 455   | Principles of Conservation Biology            |     |
| FW 465   | Managing Human-Wildlife Conflicts             |     |
| FW 467   | Wildlife Disease Ecology                      |     |
| FW 468   | Bird Ecology and Conservation                 |     |
| FW 469   | Conservation and Management of Large Mammals  |     |
| FW 471   | Wildlife Data Collection and Analysis         | 4C  |
| FW 472   | Issues in Animal Conservation and Management  |     |
| FW 475   | Conservation Decision Making                  |     |
| FW 477   | Wildlife Habitat Use and Management           |     |
| FW 544   | Ecotoxicology                                 |     |
| FW 573   | Travel Abroad-Wildlife Ecology/Conservation   |     |
| FW *** Travel Abroad upper-division course <sup>4</sup>                                  |   |     |
| Select one course from the following:  |   | 3-4 |
| FW 401   | Fishery Science                               | 4C  |
| FW 471   | Wildlife Data Collection and Analysis         | 4C  |
| Select one course from the following:  |   | 3   |
| FW 455   | Principles of Conservation Biology            |     |
| FW 472   | Issues in Animal Conservation and Management  |     |
| Select two Human Dimensions courses not taken elsewhere from the following:              |   | 6   |
| FW 310   | Mapping Diverse Perspectives in Conservation  |     |
| FW 472   | Issues in Animal Conservation and Management  |     |
| HIST 355 <sup>5</sup>  | American Environmental History                |     |
| NR 320   | Natural Resources History and Policy          |     |
| NR 400   | Public Communication in Natural Resources     |     |
| NRRT 320   | International Issues-Recreation and Tourism   |     |
| NRRT 330   | Social Aspects of Natural Resource Management |     |
| NRRT 400 <sup>5</sup>  | Environmental Governance                      |     |
| NRRT 440 <sup>5</sup>  | Applications in Environmental Communication   |     |
| PHIL 320   | Ethics of Sustainability                      |     |
| PHIL 345   | Environmental Ethics                          |     |
| POLS 361   | U.S. Environmental Politics and Policy        |     |
| SOC 320  | Population-Natural Resources and Environment  |     |

|                               |  |              |
|-------------------------------|--|--------------|
| SOC 322                       | Environmental Justice                        |              |
| SOC 460                       | Environmental and Natural Resource Sociology |              |
| SOC 461                       | Water and Social Justice                     |              |
| Guided Electives <sup>6</sup> |  | 6            |
| Elective <sup>7</sup>         |  | 0-1          |
| <b>Total Credits</b>          |  | <b>24-28</b> |
| <b>Program Total Credits:</b> |  | <b>120</b>   |

<sup>1</sup> Students taking this biology selection should choose a botany-related course in the department elective options to meet the botany/plant course requirements for certain federal positions related to wildlife, fisheries, and/or conservation biology.

<sup>2</sup> Students in the Honors Track 1 program must take HONR 499.

<sup>3</sup> FW 300 and FW 301 count together as one selection in this choice.

<sup>4</sup> Restricted to FW subject code, department travel abroad courses, taught by FWCB faculty. No transfer or substitute courses will be accepted.

<sup>5</sup> Students may need to obtain a registration override from the appropriate department to take this course.

<sup>6</sup> Guided electives are courses intended to expand a student's depth and breadth in wildlife biology and include any 300- or 400-level regular course with a BC, BMS, BSPM, BZ, CHEM, ESS, F, FW, GES, MATH, MIP, NR, NRRT, PH, RS, SOCR, STAT, or WR subject code (excluding courses ending in -80 to -99); CHEM 245 and CHEM 246; SOCR 240; other courses with prior approval by department and advisor. Courses may not double-count as Guided Electives and for other requirements in the major.

<sup>7</sup> Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).

## Major Completion Map

### Distinctive Requirements for Degree Program:

The curriculum for the Fish, Wildlife and Conservation Biology major – Conservation Biology concentration assumes students enter college prepared to take calculus. Students who have not met the prerequisites for calculus, will be required to successfully complete the prerequisites in their first year. A minimum grade of C (2.000) is required in all biological, mathematical / statistical, physical science, fish, wildlife, and conservation biology, and natural resources courses used to meet graduation requirements for the fish, wildlife, and conservation biology major. The minimum applies to courses taken as substitutions for meeting degree requirements. NR 220 is a summer course in which students reside at CSU's Mountain Campus. Students must choose ONE of two CHEM + PH paths: (Path A) CHEM 107/CHEM 108 and PH 121/PH 122 or (Path B) CHEM 111, CHEM 112, CHEM 113, CHEM 114 and PH 110/PH 111. Students must also choose ONE biology group A) BZ 110/BZ 111 or B) LIFE 102/LIFE 103.

### Freshman

| Semester 1                           |  | Critical | Recommended | AUCC | Credits   |
|--------------------------------------|--|----------|-------------|------|-----------|
| CO 150                               | College Composition (GT-CO2)               | X        |             | 1A   | 3         |
| FW 104                               | Wildlife Ecology and Conservation (GT-SC2) | X        |             | 3A   | 3         |
| FW 179                               | New-to-the-Major Seminar                   | X        |             |      | 1         |
| Select one group from the following: |  | X        |             |      | 4         |
| Group A:                             |  |          |             |      |           |
| BZ 110                               | Principles of Animal Biology (GT-SC2)      |          |             | 3A   |           |
| BZ 111                               | Animal Biology Laboratory (GT-SC1)         |          |             | 3A   |           |
| Group B:                             |  |          |             |      |           |
| LIFE 102                             | Attributes of Living Systems (GT-SC1)      |          |             | 3A   |           |
| Select one path from the following:  |  | X        |             |      | 5         |
| Path A:                              |  |          |             |      |           |
| PH 121                               | General Physics I (GT-SC1)                 |          |             | 3A   |           |
| Path B:                              |  |          |             |      |           |
| CHEM 111                             | General Chemistry I (GT-SC2)               |          |             | 3A   |           |
| CHEM 112                             | General Chemistry Lab I (GT-SC1)           |          |             | 3A   |           |
| <b>Total Credits</b>                 |  |          |             |      | <b>16</b> |

| Semester 2                            |  | Critical | Recommended | AUCC | Credits |
|---------------------------------------|--|----------|-------------|------|---------|
| Select one course from the following: |  | X        |             |      | 4       |
| BZ 120                                | Principles of Plant Biology (GT-SC1)             |          |             | 3A   |         |
| LIFE 103                              | Biology of Organisms-Animals and Plants (GT-SC1) |          |             | 3A   |         |
| Select one path from the following:   |  | X        |             |      | 8-10    |
| Path A:                               |  |          |             |      |         |

|  |   |   |    |   |
|--|---|---|----|---|
| CHEM 107   | Fundamentals of Chemistry (GT-SC2)                |   | 3A |   |
| CHEM 108   | Fundamentals of Chemistry Laboratory (GT-SC1)     |   | 3A |   |
| PH 122   | General Physics II (GT-SC1)                       |   | 3A |   |
| Path B:  |   |   |    |   |
| CHEM 113   | General Chemistry II                              |   |    |   |
| CHEM 114   | General Chemistry Lab II                          |   |    |   |
| PH 110   | Physics of Everyday Phenomena (GT-SC2)            |   | 3A |   |
| PH 111   | Physics of Everyday Phenomena Laboratory (GT-SC1) |   | 3A |   |
| Diversity, Equity, and Inclusion ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion</a> ) |   | X | 1C | 3 |

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**Total Credits** **15-17**

**Sophomore**

| <b>Semester 3</b>   |   | <b>Critical</b> | <b>Recommended</b> | <b>AUCC</b> | <b>Credits</b> |
|---|---|-----------------|--------------------|-------------|----------------|
| FW 260  | Principles of Wildlife Management             | X               |                    |             | 3              |
| Select one course from the following:   |   | X               |                    |             | 3-4            |
| BZ 220  | Introduction to Evolution                     |                 |                    |             |                |
| BZ 350  | Molecular and General Genetics                |                 |                    |             |                |
| SOCR 330  | Principles of Genetics                        |                 |                    |             |                |
| Select one course from the following:   |   | X               |                    |             | 4              |
| MATH 155  | Calculus for Biological Scientists I (GT-MA1) |                 |                    | 1B          |                |
| MATH 160  | Calculus for Physical Scientists I (GT-MA1)   |                 |                    | 1B          |                |
| Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> ) |   |                 | X                  | 3B          | 3              |

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**Total Credits** **13-14**

| <b>Semester 4</b>  |   | <b>Critical</b> | <b>Recommended</b> | <b>AUCC</b> | <b>Credits</b> |
|--|---|-----------------|--------------------|-------------|----------------|
| LIFE 320   | Ecology                                     | X               |                    |             | 3              |
| Select one course from the following:  |   | X               |                    |             | 3              |
| HONR 499   | Senior Honors Thesis                        |                 |                    |             |                |
| SPCM 200   | Public Speaking                             |                 |                    |             |                |
| Select one course from the following:  |   | X               |                    |             | 3              |
| STAT 301   | Introduction to Applied Statistical Methods |                 |                    |             |                |
| STAT 307   | Introduction to Biostatistics               |                 |                    |             |                |
| Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )                                  |   |                 | X                  | 3B          | 3              |
| Social and Behavioral Sciences ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences</a> ) |   |                 | X                  | 3C          | 3              |
| FW 260 must be completed by the end of Semester 4.   |   | X               |                    |             |                |

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**Total Credits** **15**

| <b>Semester 5</b> |   | <b>Critical</b> | <b>Recommended</b> | <b>AUCC</b> | <b>Credits</b> |
|-------------------|---|-----------------|--------------------|-------------|----------------|
| NR 220            | Natural Resource Ecology and Measurements | X               |                    |             | 5              |

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**Total Credits** **5**

**Junior**

| <b>Semester 6</b>                     |  | <b>Critical</b> | <b>Recommended</b> | <b>AUCC</b> | <b>Credits</b> |
|---------------------------------------|--|-----------------|--------------------|-------------|----------------|
| Select one course from the following: |  | X               |                    |             | 3-4            |
| FW 310                                | Mapping Diverse Perspectives in Conservation             |                 |                    |             |                |
| FW 325                                | Spatial Ecology--Applications with R                     |                 |                    |             |                |
| NR 319                                | Introduction to Geospatial Science                       |                 |                    |             |                |
| Select one course from the following: |  | X               |                    |             | 3              |
| CO 300                                | Writing Arguments (GT-CO3)                               |                 |                    | 2           |                |
| JTC 300                               | Strategic Writing and Communication (GT-CO3)             |                 |                    | 2           |                |
| CO 301A                               | Writing in the Disciplines: Arts and Humanities (GT-CO3) |                 |                    | 2           |                |
| CO 301B                               | Writing in the Disciplines: Sciences (GT-CO3)            |                 |                    | 2           |                |
| CO 301C                               | Writing in the Disciplines: Social Sciences (GT-CO3)     |                 |                    | 2           |                |

|   |  |   |  |   |     |
|---|--|---|--|---|-----|
| CO 301D   | Writing in the Disciplines: Education (GT-CO3) |   |  | 2 |     |
| Select one group from the following:  |  | X |  |   | 4-7 |
| Group A:  |  |   |  |   |     |
| BSPM 302  | Applied and General Entomology                 |   |  |   |     |
| BSPM 303A   | Entomology Laboratory: General                 |   |  |   |     |
| Group B:  |  |   |  |   |     |
| BZ 212  | Animal Biology-Invertebrates                   |   |  |   |     |
| NR 312  | Applied Insect Ecology                         |   |  |   |     |
| Select one group from the following:  |  |   |  |   | 3-4 |
| Group A:  |  |   |  |   |     |
| BZ 214  | Animal Biology-Vertebrates                     |   |  |   |     |
| Group B:  |  |   |  |   |     |
| BZ 329  | Herpetology                                    |   |  |   |     |
| Group C:  |  |   |  |   |     |
| BZ 330  | Mammalogy                                      |   |  |   |     |
| Group D:  |  |   |  |   |     |
| BZ 335  | Ornithology                                    |   |  |   |     |
| Group E:  |  |   |  |   |     |
| FW 300  | Biology and Diversity of Fishes                |   |  |   |     |
| FW 301  | Ichthyology Laboratory                         |   |  |   |     |
| STAT 301 or STAT 307 and LIFE 320 must be completed by the end of Semester 6. |  | X |  |   |     |

| <b>Total Credits</b>  |                                      |                 |                    |             | <b>13-18</b>   |
|---|--------------------------------------|-----------------|--------------------|-------------|----------------|
| <b>Semester 7</b>   |                                      | <b>Critical</b> | <b>Recommended</b> | <b>AUCC</b> | <b>Credits</b> |
| FW 370  | Design of Fish and Wildlife Projects | X               |                    | 4A,4B       | 3              |
| Select one group from the following:  |                                      | X               |                    |             | 3-4            |
| Group A:  |                                      |                 |                    |             |                |
| BZ 214  | Animal Biology-Vertebrates           |                 |                    |             |                |
| Group B:  |                                      |                 |                    |             |                |
| BZ 329  | Herpetology                          |                 |                    |             |                |
| Group C:  |                                      |                 |                    |             |                |
| BZ 330  | Mammalogy                            |                 |                    |             |                |
| Group D:  |                                      |                 |                    |             |                |
| BZ 335  | Ornithology                          |                 |                    |             |                |
| Group E:  |                                      |                 |                    |             |                |
| FW 300  | Biology and Diversity of Fishes      |                 |                    |             |                |
| FW 301  | Ichthyology Laboratory               |                 |                    |             |                |
| Plant Biology Elective Course (See Department List on Concentration Requirements tab)   |                                      | X               |                    |             | 3-4            |
| Historical Perspectives ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives</a> ) |                                      |                 | X                  | 3D          | 3              |
| Choose FW 300 / FW 301 if taking FW 401   |                                      |                 |                    |             |                |

| <b>Total Credits</b>   |  |                 |                    |             | <b>12-14</b>   |
|--|--|-----------------|--------------------|-------------|----------------|
| <b>Senior</b>  |  |                 |                    |             |                |
| <b>Semester 8</b>  |  | <b>Critical</b> | <b>Recommended</b> | <b>AUCC</b> | <b>Credits</b> |
| Select one course from the following:  |  | X               |                    |             | 3-4            |
| FW 471   | Wildlife Data Collection and Analysis        |                 |                    | 4C          |                |
| FW 401   | Fishery Science                              |                 |                    | 4C          |                |
| Select one course from the following:  |  | X               |                    |             | 3              |
| FW 455   | Principles of Conservation Biology           |                 |                    |             |                |
| FW 472   | Issues in Animal Conservation and Management |                 |                    |             |                |
| Aquatic Biology Elective (See Department List on Concentration Requirements tab) |  | X               |                    |             | 3-4            |

|  |   |  |  |   |
|--|---|--|--|---|
| Human Dimensions Elective (See Department List on Concentration Requirements tab)              | X |  |  | 3 |
| FW 370, BSPM 302 / BSPM 303A or or BZ 212 / NR 312 must be completed by the end of Semester 8. | X |  |  |   |

| <b>Total Credits</b>   |                 |                    |             | <b>12-14</b>   |
|--|-----------------|--------------------|-------------|----------------|
| <b>Semester 9</b>  | <b>Critical</b> | <b>Recommended</b> | <b>AUCC</b> | <b>Credits</b> |
| Human Dimensions Elective (See Department List on Concentration Requirements tab)                    | X               |                    |             | 3              |
| Wildlife Elective (See Department List on Concentration Requirements tab)                            | X               |                    |             | 3-4            |
| Upper Division Guided Electives (See Department List on Concentration Requirements tab)              | X               |                    |             | 6              |
| Elective   |                 | X                  |             | 0-1            |
| The benchmark courses for the 9th semester are the remaining courses in the entire program of study. | X               |                    |             |                |
| <b>Total Credits</b>   |                 |                    |             | <b>12-14</b>   |
| <b>Program Total Credits:</b>  |                 |                    |             | <b>120</b>     |