

# WILDLIFE AND FISHERIES SCIENCES - BS, WILDLIFE ECOLOGY AND CONSERVATION OPTION

## Program Requirements

### First Year

|                              |   | Semester Credit Hours |
|------------------------------|---|-----------------------|
| <b>Fall</b>                  |   |                       |
| BIOL 111                     | Introductory Biology I                              | 4                     |
| ECCB 205                     | Fundamentals of Ecology <sup>1</sup>                | 3                     |
| MATH 140                     | Mathematics for Business and Social Sciences        | 3                     |
| WFSC 101                     | Introduction to Wildlife and Fisheries <sup>1</sup> | 3                     |
| <b>Semester Credit Hours</b> |   | <b>13</b>             |

### Spring

|   |                         |           |
|---|-------------------------|-----------|
| BIOL 112  | Introductory Biology II | 4         |
| MATH 142  | Business Calculus       | 3         |
| American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> ) <sup>3</sup>                                       |                         | 3         |
| Language, philosophy and culture ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a> ) <sup>3</sup> |                         | 3         |
| Social and behavioral sciences ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences</a> ) <sup>3</sup>     |                         | 3         |
| <b>Semester Credit Hours</b>  |                         | <b>16</b> |

### Second Year

|   |   | Semester Credit Hours |
|---|---|-----------------------|
| <b>Fall</b>   |   |                       |
| CHEM 119  | Fundamentals of Chemistry I                         | 4                     |
| ECCB 302  | Diversity and Evolution of Vertebrates <sup>1</sup> | 3                     |
| ENGL 104  | Composition and Rhetoric                            | 3                     |
| American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> ) <sup>3</sup> |   | 3                     |
| Creative arts ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a> ) <sup>3</sup>          |   | 3                     |
| <b>Semester Credit Hours</b>  |   | <b>16</b>             |

### Spring

|                              |  |     |
|------------------------------|--|-----|
| CHEM 222 & CHEM 242          | Elements of Organic and Biological Chemistry and Elementary Organic Chemistry Laboratory | 4   |
| ECCB 215                     | Fundamentals of Ecology--Laboratory <sup>1</sup>   | 1   |
| Select one of the following: |  | 3-4 |
| BIOL 388                     | Principles of Animal Physiology  |     |
| ECCB 313                     | Diversity and Evolution of Invertebrates   |     |
| VTPP 423                     | Biomedical Physiology I  |     |

|   |   |
|---|---|
| Government/Political science ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a> ) <sup>3</sup> | 3 |
| Directed elective <sup>2</sup>  | 3 |

**Semester Credit Hours 14**

### Third Year

#### Fall

|   |                                    |     |
|---|------------------------------------|-----|
| ENGL 210  | Technical and Professional Writing | 3   |
| STAT 302  | Statistical Methods                | 3   |
| Government/Political science ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a> ) <sup>3</sup> |                                    | 3   |
| Directed elective <sup>2</sup>  |                                    | 3-4 |
| Directed elective <sup>2</sup>  |                                    | 3   |

**Semester Credit Hours 16**

#### Spring

|   |  |   |
|---|--|---|
| COMM 203                                  | Public Speaking  | 3 |
| GENE 301 & GENE 312                       | Comprehensive Genetics and Comprehensive Genetics Laboratory | 4 |
| Select one of the following: <sup>1</sup> |  | 3 |
| RWFM 308                                  | Fish and Wildlife Laws and Administration                    |   |
| RWFM 375                                  | Conservation of Natural Resources                            |   |
| RWFM 436                                  | Natural Resources Policy                                     |   |
| RWFM 470                                  | Environmental Impact Assessment                              |   |
| Select one of the following:              |  | 3 |
| GEOG 203                                  | Planet Earth   |   |
| GEOL 101                                  | Principles of Geology  |   |
| OCNG 251                                  | Oceanography   |   |
| Biodiversity elective <sup>1,4</sup>      |  | 3 |

**Semester Credit Hours 16**

### Fourth Year

#### Fall

|   |                  |   |
|---|------------------|---|
| PHYS 201                                  | College Physics  | 4 |
| Select one of the following: <sup>1</sup> |                  | 3 |
| ECCB 300/ ENTO 300                        | Field Studies    |   |
| RWFM 484                                  | Internship       |   |
| RWFM 485                                  | Directed Studies |   |
| RWFM 491                                  | Research         |   |
| Biodiversity elective <sup>1,4</sup>      |                  | 3 |
| Directed elective <sup>2</sup>            |                  | 3 |
| Directed elective <sup>2</sup>            |                  | 3 |

**Semester Credit Hours 16**

#### Spring

|                                |                                   |   |
|--------------------------------|-----------------------------------|---|
| ECCB 304                       | Conservation Biology <sup>1</sup> | 3 |
| Directed elective <sup>2</sup> |                                   | 3 |
| Directed elective <sup>2</sup> |                                   | 3 |
| Directed elective <sup>2</sup> |                                   | 4 |

**Semester Credit Hours 13**

**Total Semester Credit Hours 120**

<sup>1</sup> Must make a grade of C or better.

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<sup>2</sup> Directed electives to be chosen in areas related to wildlife management, conservation or animal behavior.

<sup>3</sup> Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses and 3 hours of Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement.

<sup>4</sup> Select from ENTO 201; ECCB 311, ECCB 315, ECCB 401, ECCB 402.

A total of 120 semester hours will be required for a BS degree.