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| For Academic Affairs and Research Use Only | |
| Proposal Number |  |
| CIP Code: |  |
| Degree Code: |  |

**Program Modification Form**

**[X ] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| **Modification Type: [ ]Admissions, [ ]Curricular Sequence, or [ X]Other** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| |  |  | | --- | --- | | David Gilmore | 2/25/2021 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Stephen J. Mullin | 2/25/2021 |   **Department Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | John Hershberger | 2/25/2021 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Director of Assessment** *(only for changes impacting assessment)* | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | Lynn Boyd | 2/25/2021 |   **College Dean** | |  |  | | --- | --- | | Alan Utter | 3/15/2021 |   **Vice Chancellor for Academic Affairs** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (if applicable)** |  |

1. **Contact Person** (Name, Email Address, Phone Number)

David Gilmore, [dgilmore@astate.edu](mailto:dgilmore@astate.edu), 972-3263

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

New and previous changes to curriculum requires adjustments to elective hours in some categories in the B.S. in Wildlife, Fisheries, and Conservation, Wildlife Emphasis.

1. **Effective Date**

Fall 2021

1. **Justification –** *Please provide details as to why this change is necessary.*

New and previous changes have made subtotals inaccurate. This proposal is contingent on proposals revising Mammalogy to a single 4 credit course.

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** |

BEFORE

Major in Wildlife, Fisheries and Conservation

**Bachelor of Science**

**Emphasis in Wildlife**

A complete 8-semester degree plan is available at https://www.astate.edu/info/academics/degrees/

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| University Requirements: | |
| See University General Requirements for Baccalaureate degrees (p. 42) | |
| **First Year Making Connections Course:** | Sem. Hrs. |
| BIO 1013, Making Connections - Biology | 3 |
| **General Education Requirements:** | Sem. Hrs. |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  Students with this major must take the following:  *Students with this major must take the following:*  *MATH 1054, Precalculus Mathematics or MATH course that requires MATH 1023*  *as a prerequisite*  *CHEM 1013 AND 1011, General Chemistry I and Laboratory*  *BIO 2013 AND 2011, Biology of the Cell and Laboratory*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | 36 |
| **Language Requirement:** | Sem. Hrs. |
| *A student must complete the foreign language requirements before being considered a Major in Wildlife, Fisheries and Conservation Major. (Refer to Department of Biological Sci­ences Foreign Language Requirement).* | |
| **Major Requirements:** | Sem. Hrs. |
| See emphasis area below. | - |
| **Emphasis Area (Wildlife):** | Sem. Hrs. |
| AGST 3543, Fundamentals of GIS/GPS | 3 |
| BIO 1303 AND 1301, Biology of Animals and Laboratory | 4 |
| BIO 1503 AND 1501, Biology of Plants and Laboratory | 4 |
| BIO 3013 AND 3011, Genetics and Laboratory | 4 |
| BIO 3023, Principles of Ecology | 3 |
| BIO 4021, Biological Seminar | 1 |
| BIO 4311 AND 4312, Fishery Biology and Laboratory OR  BIO 4402 AND 4401, Ichthyology and Laboratory OR  BIO 4603 AND 4601, Limnology and Laboratory | 3-4 |
| BIO 4373 AND 4371, Animal Ecology and Laboratory | 4 |
| BIO 4413, Wildlife Program Internship OR  BIO 403V, Special Problems in Biology | 3 |
| BIO 4653 AND 4651, Wildlife Management and Laboratory | 4 |
| BIO 4663 AND 4661, Wildlife Management Investigational Techniques and Laboratory | 4 |
| BIO 4704, Plant Systematics | 4 |
| CHEM 1023 AND 1021, General Chemistry II and Laboratory | 4 |
| GEOL 1003 AND 1001, Environmental Geology and Laboratory OR  PSSC 2813 AND 2811, Soils and Laboratory | 4 |
| MATH 2194, Survey of Calculus OR  MATH 2204, Calculus I | 4 |
| STAT 3233, Applied Statistics I | 3 |

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| **Select two of the following:**  BIO 3673, Human Dimensions of Natural Resources  BIO 4613, Conservation Biology  POSC 4533, Environmental Law and Administration | 6 |
| **Select two of the following:**  BIO 4352 **AND** 4351, Mammalogy and Laboratory  BIO 4412 **AND** 4411, Herpetology and Laboratory  BIO 4423 **AND** 4421, Ornithology and Laboratory | 6-7 |
| **Botany elective:**  BIO 3501 **AND** BIO 3511, Wild Flowers of Arkansas and Laboratory.  BIO 3542 **AND** BIO 3541, Plant Pathology and Laboratory  BIO 3553. Economic Botany  BIO 4513. Plant Physiology  BIO 4522 **AND** BIO 4521, Wetland Plant Ecology and Laboratory  BIO 4542 **AND** BIO 4541, Mycology and Laboratory  BIO 4552 **AND** BIO 4551, Medical Mycology and Laboratory  BIO 4714, Dendrology  *Other courses approved by advisor* | 3 |
| **Communication elective:**  ENG 3043. Technical Writing  *See advisor for acceptable substitutions.* | 3 |
| **Zoology electives:**  BIO 3303 **AND** BIO 3301, General Entomology and Laboratory  BIO 3313 **AND** BIO 3311, Economic Entomology and Laboratory  BIO 3302 **AND** BIO 3312, Comparative Anatomy and Laboratory  BIO 3322 **AND** BIO 3332, Invertebrate Zoology and Laboratory  BIO 4322 **AND** BIO 4323, Biology of Marine Mammals and Laboratory  BIO 4332 **AND** BIO 4342, Animal Histology and Laboratory  BIO 4333, Marine Biology  BIO 4343 **AND** BIO 4341, Animal Embryology and Laboratory  BIO 4352 **AND** BIO 4351, Mammology and Laboratory  BIO 4362, Applied Aquaculture  BIO 4363 **AND** BIO 4361, Mammalian Neurobiology and Laboratory  BIO 4372, Applied Fisheries  BIO 4382 **AND** BIO 4392, Parasitology and Laboratory  BIO 4403, Comparative Vertebrate Reproduction  BIO 4412 **AND** BIO 4411, Herpetology and Laboratory  BIO 4423 **AND** BIO 4421, Ornithology and Laboratory  BIO 4433, Field Experience in Marine Environments  BIO 4443 **AND** 4441, Comparative Animal Physiology and Laboratory  *An individual course cannot be used as both a required course and an elective.* | 5-7 |
| **Sub-total** | **81** |
| **Total Required Hours:** | **120** |

AFTER

Major in Wildlife, Fisheries and Conservation

**Bachelor of Science**

**Emphasis in Wildlife**

A complete 8-semester degree plan is available at https://www.astate.edu/info/academics/degrees/

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| **General Education Requirements:** | Sem. Hrs. |
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| BIO 3023, Principles of Ecology | 3 |
| BIO 4021, Biological Seminar | 1 |
| BIO 4311 AND 4312, Fishery Biology and Laboratory OR  BIO 4402 AND 4401, Ichthyology and Laboratory OR  BIO 4603 AND 4601, Limnology and Laboratory | 3-4 |
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| BIO 4663 AND 4661, Wildlife Management Investigational Techniques and Laboratory | 4 |
| BIO 4704, Plant Systematics | 4 |
| CHEM 1023 AND 1021, General Chemistry II and Laboratory | 4 |
| GEOL 1003 AND 1001, Environmental Geology and Laboratory OR  PSSC 2813 AND 2811, Soils and Laboratory | 4 |
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| STAT 3233, Applied Statistics I | 3 |

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| **Select two of the following:**  BIO 4354, Mammalogy  BIO 4453 **AND** 4411, Herpetology and Laboratory  BIO 4423 **AND** 4421, Ornithology and Laboratory | 8 |
| **Botany elective:**  BIO 3501 **AND** BIO 3511, Wild Flowers of Arkansas and Laboratory.  BIO 3542 **AND** BIO 3541, Plant Pathology and Laboratory  BIO 3553. Economic Botany  BIO 4513. Plant Physiology  BIO 4522 **AND** BIO 4521, Wetland Plant Ecology and Laboratory  BIO 4542 **AND** BIO 4541, Mycology and Laboratory  BIO 4552 **AND** BIO 4551, Medical Mycology and Laboratory  BIO 4714, Dendrology  *Other courses approved by advisor* | 3 |
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