Code # SM32 (2015)

 **New Emphasis, Concentration or Option Proposal Form**

[x]  **Undergraduate Curriculum Council** - Print 1 copy for signatures and save 1 electronic copy.

[ ]  **Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to pheath@astate.edu

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**COPE Chair (if applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Department Chair:**  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**General Education Committee Chair (If applicable)**   |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Graduate Curriculum Committee Chair** |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Vice Chancellor for Academic Affairs** |

**i. Proposed Program Title**

Emphasis in Wildlife; BS Wildlife Fisheries and Conservation

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

Dr. Thomas Risch, trisch@astate.edu, 972-3082

**iii. Proposed Starting Date**

8/16/2016

**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. Follow the following guidelines for indicating necessary changes.** **\*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.** - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)- New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font). - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)*You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.* *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

**Major in Wildlife, Fisheries and Conservation**

Bachelor of Science

Emphasis in Wildlife

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

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| **University Requirements:**  |
| See University General Requirements for Baccalaureate degrees (p. 41)  |
| 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. 83) 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 Wildlife Ecol­ogy and Management Major. (Refer to p. 353 for foreign language requirements).  |
| Major Requirements:  | 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 3311, Genetics and Laboratory  | 4  |
| BIO 3023, Principles of Ecology  | 3  |
| Choose Two of the FollowingBIO 3673 Human Dimensions of Natural ResourcesBIO 4613 Conservation BiologyPOSC 4533 Environmental Law and Administration  | 6 |
| BIO 4021 Biology Seminar | 1 |
| Select one of the following combinations: BIO 4311 AND 4312, Fishery Biology and Laboratory BIO 4402 AND 4401, Ichthyology and Laboratory BIO 4603 AND 4601, Limnology and Laboratory |  |
| Select two of the following combinations: BIO 4352 AND 4351, Mammalogy and Laboratory BIO 4412 AND 4411, Herpetology and LaboratoryBIO 4423 AND 4421, Ornithology and Laboratory  | 6-7 |
| BIO 4373 AND 4371, Animal Ecology and Laboratory  | 4  |
| BIO 4413, Wildlife Program Internship  | 3  |
| BIO 4613, Conservation 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 GEOL 1001 Environmental Geology and Environmental Geology Lab OR PSSC 2813 AND PSSC 2811 Soils and Soils Lab  | 4 |
| MATH 2194 Survey of Calculus OR MATH 2204 Calculus I | 4 |
| Electives Must include Botany and Communication electives | 15-16 |
| Subtotal | 81 |
| Total required hours | 120 |

**EMPHASIS ASSESSMENT**

**University Goals**

1. Please indicate the university-level student learning outcomes for which this new emphasis will contribute. Check all that apply.

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| 1. [x] Global Awareness
 | 1. [x] Thinking Critically
 | 1. [x] Information Literacy
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**Emphasis Goals**

2. Justification for the introduction of the new emphasis. Must include:

1. Academic rationale (how will this emphasis fit into the mission established by the department for the curriculum?)
The new Wildlife Emphasis area of the Wildlife, Fisheries, and Conservation major fulfills the mission of our department by providing the foundational knowledge to think critically in a particular content area of science and conservation, while simultaneously providing career training by fulfilling coursework requirements for Associate Wildlife Biologist Certification from the Wildlife Society.
2. List emphasis goals (faculty or curricular goals, specific to the emphasis.)

The primary goal of this emphasis area is to meet the following student learning objectives:

1. Students will be able to (SWBAT) discuss interactions with organisms and their environment.
2. SWBAT evaluate impact of current or proposed natural resource conservation strategies.
3. SWBAT utilize best practices for wildlife and fisheries management.
4. SWBAT communicate physical components of the environment upon which life depends.
5. SWBAT examine genetic mechanisms and explain their principles.
6. SWBAT demonstrate broad taxonomic knowledge of plant and vertebrate animal groups.
7. SWBAT investigate animal behaviors and food sources.

The current major, without emphasis areas, was attempting to serve too many student populations with a single degree. One of the major goals of this degree program and emphasis area is to provide the coursework foundation that allows graduates to apply for Associate Wildlife Biologist Certification. Without emphasis areas, it is too difficult to meet the differences in criteria for the professional certifications in this field. Therefore, the emphasis areas are necessary for this program.

d. Student population served.

undergraduate students

LETTER OF NOTIFICATION – 3

NEW OPTION, EMPHASIS or CONCENTRATION

(Maximum 18 semester credit hours of theory courses and 6 credit hours of practicum courses)

1. Institution submitting request: Arkansas State University-Jonesboro

1. Contact person/title: Dr. Thomas Risch / Department Chair
2. Phone number/e-mail address: 870-972-3333
3. Proposed effective date: August 16, 2016
4. Title of existing degree program: BS Wildlife Ecology & Management

 (Indicate if the degree listed above is approved for distance delivery)

1. CIP Code: 03.0601
2. Degree Code: 03
3. Proposed name of new option/concentration/emphasis: BS Wildlife, Fisheries & Conservation—Wildlife Emphasis
4. Reason for proposed action: In education toward becoming a conservation professional, students need the ability to emphasize in conservation of terrestrial or aquatic systems for their coursework. This emphasis area will allow students to take more in-depth courses related to wildlife biology and conservation, preparing them for careers in natural resource conservation management and research.
5. New option/emphasis/concentration objective: The objective of the new emphasis area is to offer students a prescribed degree plan that allows them to obtain a general, well-rounded degree in conservation, while also emphasizing specifically in wildlife biology and natural resource conservation.
6. Provide the following:
	1. Curriculum outline - List of courses in new option/concentration/emphasis – Underline required courses (see attached spreadsheet)
	2. Provide degree plan that includes new option/emphasis/concentration (see attached Word Document)
	3. Total semester credit hours required for option/emphasis/concentration 15

 (Option range: 9–24 semester credit hours)

* 1. New courses and new course descriptions: None.
	2. Goals and objectives of program option: The objective of the new emphasis area is to offer students a prescribed degree plan that allows them to obtain a general, well-rounded degree in conservation, while also emphasizing specifically in wildlife biology and natural resources conservation.
	3. Expected student learning outcomes: Students will learn to become biologists, people who ask questions and test hypotheses about life. More specifically, students will learn the needs for and successful mechanisms of conserving biodiversity and natural resources in an ever-changing world. In the particular emphasis area, students will learn diversity of terrestrial organisms and management of game and non-game animal species.
	4. Documentation that program option meets employer needs: This emphasis area meets the requirements for Associate Wildlife Biologist certification from the Wildlife Society.
	5. Student demand (projected enrollment) for program option: 50 students
	6. Name of institutions offering similar program or program option and the institution(s) used as a model to develop the proposed program option: Arkansas Tech University has a similar major. The University of Arkansas at Monticello offers a similar emphasis area in their BS of Natural Resource Management housed in their School of Forestry and Natural Resources. We modeled our program after requirements for professional certification from the Wildlife Society.
1. Institutional curriculum committee review/approval date:
2. Will the new option/emphasis/concentration be offered via distance delivery? If yes, indicate mode of distance delivery: No
3. Explain in detail the distance delivery methods/procedures to be used: N/A
4. Specify the amount of additional costs required for program implementation, the source of funds, and how funds will be used. This program will require regular course offerings of Environmental Geology and Lab, which may be done through the hiring of adjunct faculty.
5. Provide additional program information if requested by ADHE staff.

President/Chancellor Approval Date:

Board of Trustees Notification Date:

Chief Academic Officer Date: