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

 **Course Deletion Proposal Form**

**[ ] Undergraduate Curriculum Council**

**[ X ] Graduate Council**

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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| Virginie Rolland | 9/13/2021 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Stephen J. Mullin | 9/13/2021 |

**Department Chair** |

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**Head of Unit (if applicable)**   |
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| John Hershberger 9/23/2021 | Enter date |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Lynn Boyd | 10/1/2021 |

**College Dean** |

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**Graduate Curriculum Committee Chair** |
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**General Education Committee Chair (if applicable)**   |

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| Alan Utter | 11/29/2021 |

**Vice Chancellor for Academic Affairs** |

1. **Course Title, Prefix and Number**

Comparative Vertebrate Reproduction – BIO 5403

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

SJ Mullin, smullin@astate.edu, 870-972-3082

1. **Justification**

Course is too specific for demand from student population. Faculty expertise within the dept. no longer exists, and there is no intention of hiring somebody to teach this course.

1. **Last semester course will be offered**

N/A

1. No **Does this course appear in your curriculum? (if yes, and this deletion changes the curriculum, a Program Modification Form is required)**

No.

1. Yes **Is this course dual-listed (undergraduate/graduate)?**

Yes. A course deletion form is also being submitted for the undergraduate-level course BIO 4403.

1. No **Is this course cross-listed with a course in another department?**

If yes, which course(s)?

 No

1. No **Is there currently a course listed in the Bulletin or Banner which is a one-to-one equivalent to this course (please check with the Registrar’s Office if unsure)?**

If yes, which course?

No.

**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.**  |

CURRENT VERSION (pg. 415):

**BIO 5332. Animal Histology** Microscopic survey of cells and tissues of vertebrate organ systems. This is a pre-existing undergraduate course (BIO 4332). The graduate version will require grad students to investigate selected methods/topics beyond what is expected of undergrads. No prerequisites.

**BIO 5333. Marine Biology** Overview of the diverse discipline of marine biology. Emphasis on life history but will incorporate aspects of chemistry, microbiology, and ecology of marine systems. Also included: marine fisheries, conservation biology, aquaculture, pharmacology, resource management, and public policy.

**BIO 5341. Laboratory for Animal Embryology** Two hours per week. To be taken concurrently with BIO 5343.

**BIO 5342. Laboratory for Animal Histology** Four hours per week. To be taken concurrently with BIO 5332.

**BIO 5343. Animal Embryology** Study of reproduction and development in animals, including reproductive systems, gamete formation, fertilization, early cleavage, formation of germ layers, and development of the organ systems. Lecture three hours per week.

**BIO 5354. Mammalogy** Evolution, phylogenetics, biogeography, structure, ecology, taxonomy, and field techniques of mammals. Special course fees may apply. Lecture three hours and lab three hours per week.

**BIO 5361. Laboratory for Mammalian Neurobiology** Two hours per week. To be taken concurrently with BIO 5363. Special course fees may apply.

**BIO 5362. Applied Aquaculture** Field course in which principles are applied within several aquaculture business settings. Intended for the student interested in wildlife and fisheries biology. Prerequisites, BIO 4311 AND 4312.

**BIO 5363. Mammalian Neurobiology** A detailed study of the mammalian nervous system with particular emphasis on morphological aspects. Lecture three hours per week. Prerequisites, BIO 1301, 1303, 2201, 2203 or permission of professor.

**BIO 5371. Laboratory for Animal Ecology** Two hours per week. To be taken concurrently with BIO 5373. Special course fees may apply.

**BIO 5372. Applied Fisheries** Field course in which principles are applied within several fisheries management settings. Intended for the Wildlife Ecology and Management major. Special course fees may apply. Prerequisite, BIO 4311.

**BIO 5373. Animal Ecology** A study of the distribution, abundance, population dynamics, behavior, and interactions of animals. Lecture three hours per week. Prerequisites, BIO 3023.

**BIO 5384. Parasitology** Evolution, life cycles, pathology, treatment and identification of biomedically important vertebrate parasites. Special course fees may apply. Lecture three hours and lab three hours per week.

**BIO 5453. Herpetology** Examination of the biology amphibians and reptiles, with emphasis on evolutionary history, behavior, physiology, morphology, and ecology. Three hours per week.

**BIO 5401. Laboratory for Ichthyology** Two hours per week. To be taken concurrently with BIO 5402. Special course fees may apply.

**BIO 5402. Ichthyology** The taxonomy, distribution, natural history, and economic importance of fishes, with emphasis on Arkansas species. Lecture two hours per week. Prerequisites, BIO 1301, 1303.

**BIO 5403. Comparative Vertebrate Reproduction** This combined lecture/lab course surveys major events in the vertebrate reproductive cycles and patterns. Prerequisites BIO 3231 and 3233 or 3323, or instructor permission.

REVISED VERSION:

**BIO 5332. Animal Histology** Microscopic survey of cells and tissues of vertebrate organ systems. This is a pre-existing undergraduate course (BIO 4332). The graduate version will require grad students to investigate selected methods/topics beyond what is expected of undergrads. No prerequisites.

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