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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 | 10/25/2021 |

**Vice Chancellor for Academic Affairs** |

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

Radiation in our World – BIO 5611

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

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

1. **Justification**

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 4611.

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. 416):

**BIO 5411. Laboratory for Herpetology** Three hours per week. To be taken concurrently with BIO 5453. Special course fees may apply.

**BIO 5421. Laboratory for Ornithology** Three hours per week. To be taken concurrently with BIO 5423. Special course fees may apply.

**BIO 5423. Ornithology** A study of the evolution, taxonomy, behavior, ecology, population biology, physiology, and conservation of birds. Lecture three hours per week. Prerequisites, BIO 1301, 1303.

**BIO 5433. Field Experience in Marine Environments** Hands-on experience with living and non-living components of marine environments. Emphasis on marine organisms and habitats but will incorporate human interactions associated with marine environments. Course is comprised of an intensive 10 day (10 hrs per day) field trip to an appropriate marine environment.

**BIO 5441. Comparative Animal Physiology Laboratory** Three hours per week. Special course fees may apply. To be taken concurrently with BIO 5443.

**BIO 5443. Comparative Animal Physiology** Examination of physiological systems and processes across vertebrate and invertebrate groups. Broad topics include energetic relationships, integrating systems, reproduction, internal transport, and maintenance of internal balance. Prerequisites, BIO 1301, BIO 1303, BIO 2013, CHEM 1021, and CHEM 1023

**BIO 5444. Wildlife Population Modeling** Introduction to population models, techniques to estimate demographic parameters (e.g., survival, breeding success). Statistical background recommended. Fall of even years. No pre-requisite although a statistical background such as Biological Data Analysis is recommended.

**BIO 5511. Laboratory for Plant Physiology** Three hours per week. To be taken concurrently with BIO 5513. Special course fees may apply.

**BIO 5513. Plant Physiology** General principles of conduction, cellular reactions, respiration, growth, photosynthesis, movement, hormones, and metabolism in plants. Lecture three hours per week. Prerequisites, BIO 1501, 1503; CHEM 3103, CHEM 3101.

**BIO 5521. Laboratory for Wetlands Plant Ecology** Two hours per week. To be taken concurrently with BIO 5522. Special course fees may apply.

**BIO 5522. Wetlands Plant Ecology** A study of plant responses to environmental factors during germination, growth, reproduction, and dormancy. Lecture two hours per week. Prerequisites, BIO 3123 or permission of professor or chair.

**BIO 5541. Laboratory for Mycology** Two hours per week. To be taken concurrently with BIO 5542. Special course fees may apply.

**BIO 5542. Mycology** Morphology, cytology, genetics, and physiology of fungi. Lecture two hours per week. Prerequisites, BIO 3012, 3022; CHEM 3103, CHEM 3101.

**BIO 5551. Laboratory for Medical Mycology** Two hours per week. To be taken concurrently with BIO 5552. Special course fees may apply.

**BIO 5552. Medical Mycology** A study of cutaneous, systemic, and opportunistic fungal diseases (mycoses) of man and other animals. Lecture two hours per week. Prerequisites, BIO 1501, 1503.

**BIO 5601. Laboratory for Limnology** Two hours per week. To be taken concurrently with BIO 5603. Special course fees may apply.

**BIO 5603. Limnology** Physicochemical conditions of fresh water, and their effects on aquatic life; plankton analysis and bottom fauna studies. Lecture three hours per week. Prerequisites, BIO 1301 , 1303; CHEM 1023, CHEM 1021.

**BIO 5611. Radiation in Our World** Introduction to the biological effects and physics of radiation and radioactivity, radiation in our environment and society, and the interactions of radiation with organisms. Prerequisite, instructor permission. Fall, Spring

REVISED VERSION:

**BIO 5411. Laboratory for Herpetology** Three hours per week. To be taken concurrently with BIO 5453. Special course fees may apply.

**BIO 5421. Laboratory for Ornithology** Three hours per week. To be taken concurrently with BIO 5423. Special course fees may apply.

**BIO 5423. Ornithology** A study of the evolution, taxonomy, behavior, ecology, population biology, physiology, and conservation of birds. Lecture three hours per week. Prerequisites, BIO 1301, 1303.

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**BIO 5443. Comparative Animal Physiology** Examination of physiological systems and processes across vertebrate and invertebrate groups. Broad topics include energetic relationships, integrating systems, reproduction, internal transport, and maintenance of internal balance. Prerequisites, BIO 1301, BIO 1303, BIO 2013, CHEM 1021, and CHEM 1023

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