|  |  |
| --- | --- |
| 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.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Virginie Rolland | 8/4/2022 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Stephen J. Mullin | 8/4/2022 |   **Department Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | John Hershberger 8/22/2022 | Enter date |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | Lynn Boyd | 8/24/2022 |   **College Dean** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (if applicable)** | |  |  | | --- | --- | | Alan Utter | 9/20/2022 |   **Vice Chancellor for Academic Affairs** |

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

Issues in Human Ecology Laboratory – BIO 5201

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

SJ Mullin, [smullin@astate.edu](mailto:smullin@astate.edu), 870-972-3082

1. **Justification**

Companion lab to BIO 5202. This course hasn’t been offered in over 5 years. No demand from graduate students currently enrolled, or being recruited, to the MS-BIO program.

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

N/A

1. **Yes / 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 / No Is this course dual-listed (undergraduate/graduate)?**

Yes. A course deletion for BIO 4201 has been submitted along with this one.

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

If yes, which course(s)?

No

1. **Yes / 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**

|  |
| --- |
| **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.** |

Highlighted in yellow are changes relevant to this course deletion. Highlighted in blue are changes for the other course deletions submitted at the same time.

CURRENT VERSION :

|  |  |
| --- | --- |
| **Biology** | |
|  | •  [BIO 504V - Special Topics in the Biological Sciences](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=203) |
|  | •  [BIO 638V - Thesis](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=204) |
|  | •  [BIO 680V - Independent Study](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=205) |
|  | •  [BIO 5001 - Laboratory Techniques in Electron Microscopy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=104) |
|  | •  [BIO 5003 - Laboratory for Laboratory Techniques in Electron Microscopy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=105) |
|  | •  [BIO 5013 - Population Genetics](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=106) |
|  | •  [BIO 5033 - Bioinformatics and Applications](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=107) |
|  | •  [BIO 5043 - Biometry](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=108) |
|  | •  [BIO 5053 - Applications in Biotechnology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=109) |
|  | •  [BIO 5063 - Biosafety and Ethics in Research](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=110) |
|  | •  [BIO 5103 - Virolog](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=111) |
|  | •  [BIO 5104 - Microbiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=112) |
|  | •  [BIO 5113 - Immunology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=113) |
|  | •  [BIO 5123 - Cell Signaling](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=114) |
|  | •  [BIO 5131 - Laboratory for Cell Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=115) |
|  | •  [BIO 5133 - Cell Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=116) |
|  | •  [BIO 5143 - Pharmacology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=117) |
|  | •  [BIO 5153 - Laboratory in BioTechniques I](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=118) |
|  | •  [BIO 5163 - Laboratory in BioTechniques II](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=119) |
|  | •  [BIO 5201 - Laboratory for Issues in Human Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=120) |
|  | •  [BIO 5202 - Issues in Human Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=121) |
|  | •  [BIO 5213 - Human Genetics](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=122) |
|  | •  [BIO 5301 - Aquatic Entomology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=123) |
|  | •  [BIO 5302 - Laboratory for Aquatic Entomology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=124) |
|  | •  [BIO 5311 - Fishery Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=125) |
|  | •  [BIO 5312 - Laboratory for Fishery Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=126) |
|  | •  [BIO 5322 - Biology of Marine Mammals Laboratory](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=127) |
|  | •  [BIO 5323 - Biology of Marine Mammals](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=128) |
|  | •  [BIO 5332 - Animal Histology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=129) |
|  | •  [BIO 5333 - Marine Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=130) |
|  | •  [BIO 5341 - Laboratory for Animal Embryology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=131) |
|  | •  [BIO 5342 - Laboratory for Animal Histology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=132) |
|  | •  [BIO 5343 - Animal Embryology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=133) |
|  | •  [BIO 5354 - Mammalogy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=134) |
|  | •  [BIO 5361 - Laboratory for Mammalian Neurobiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=135) |
|  | •  [BIO 5362 - Applied Aquaculture](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=136) |
|  | •  [BIO 5363 - Mammalian Neurobiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=137) |
|  | •  [BIO 5371 - Laboratory for Animal Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=138) |
|  | •  [BIO 5372 - Applied Fisheries](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=139) |
|  | •  [BIO 5373 - Animal Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=140) |
|  | •  [BIO 5384 - Parasitology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=141) |
|  | •  [BIO 5401 - Laboratory for Ichthyology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=142) |
|  | •  [BIO 5402 - Ichthyology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=143) |
|  | •  [BIO 5403 - Comparative Vertebrate Reproduction](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=144) |
|  | •  [BIO 5411 - Laboratory for Herpetology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=145) |
|  | •  [BIO 5421 - Laboratory for Ornithology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=146) |
|  | •  [BIO 5423 - Ornithology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=147) |
|  | •  [BIO 5433 - Field Experience in Marine Environments](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=148) |
|  | •  [BIO 5441 - Comparative Animal Physiology Laboratory](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=149) |
|  | •  [BIO 5443 - Comparative Animal Physiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=150) |
|  | •  [BIO 5444 - Wildlife Population Modeling](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=151) |
|  | •  [BIO 5453 - Herpetology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=152) |
|  | •  [BIO 5511 - Laboratory for Plant Physiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=153) |
|  | •  [BIO 5513 - Plant Physiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=154) |
|  | •  [BIO 5521 - Laboratory for Wetlands Plant Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=155) |
|  | •  [BIO 5522 - Wetlands Plant Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=156) |
|  | •  [BIO 5541 - Laboratory for Mycology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=157) |
|  | •  [BIO 5542 - Mycology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=158) |
|  | •  [BIO 5551 - Laboratory for Medical Mycology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=159) |
|  | •  [BIO 5552 - Medical Mycology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=160) |
|  | •  [BIO 5601 - Laboratory for Limnology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=161) |
|  | •  [BIO 5603 - Limnology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=162) |
|  | •  [BIO 5611 - Radiation in Our World](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=163) |
|  | •  [BIO 5623 - Environmental Microbiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=164) |
|  | •  [BIO 5633 - Environmental Toxicology: Mechanisms and Impacts](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=165) |
|  | •  [BIO 5684 - Biological Data Analyses](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=166) |
|  | •  [BIO 5704 - Plant Systematics](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=167) |
|  | •  [BIO 5714 - Dendrology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=168) |
|  | •  [BIO 5813 - Curation of Collections](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=169) |
|  | •  [BIO 5823 - Natural History Collections Research Design](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=170) |
|  | •  [BIO 6001 - Biological Seminar](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=171) |
|  | •  [BIO 6003 - Scientific Methods and Research Design](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=172) |
|  | •  [BIO 6013 - Evolutionary Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=173) |
|  | •  [BIO 6043 - The Anatomy of a Grant](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=174) |
|  | •  [BIO 6113 - Advanced Cell Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=175) |
|  | •  [BIO 6123 - Specialized Biochemistry](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=176) |
|  | •  [BIO 6143 - Introduction to Biotechnology & Research Design](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=177) |
|  | •  [BIO 6196 - Internship in Biotechnology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=178) |
|  | •  [BIO 6301 - Aquatic Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=179) |
|  | •  [BIO 6302 - Laboratory for Aquatic Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=180) |
|  | •  [BIO 6311 - Laboratory for Medical and Veterinary Entomology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=181) |
|  | •  [BIO 6313 - Medical and Veterinary Entomology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=182) |
|  | •  [BIO 6321 - Laboratory for Insect Taxonomy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=183) |
|  | •  [BIO 6322 - Insect Taxonomy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=184) |
|  | •  [BIO 6331 - Laboratory for Comparative Ethology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=185) |
|  | •  [BIO 6332 - Comparative Ethology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=186) |
|  | •  [BIO 6342 - Natural History of the Vertebrates](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=187) |
|  | •  [BIO 6343 - Cell & Molecular Neurobiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=188) |
|  | •  [BIO 6352 - Laboratory for Natural History of the Vertebrates](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=189) |
|  | •  [BIO 6371 - Practicum I](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=190) |
|  | •  [BIO 6372 - Practicum II](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=191) |
|  | •  [BIO 6503 - Mechanisms of Speciation](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=192) |
|  | •  [BIO 6513 - Global Change Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=193) |
|  | •  [BIO 6601 - Laboratory for Environmental Systems Analysis](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=194) |
|  | •  [BIO 6603 - Environmental Systems Analysis](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=195) |
|  | •  [BIO 6621 - Laboratory for Case Studies in Ecosystem Management](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=196) |
|  | •  [BIO 6623 - Case Studies in Ecosystem Management](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=197) |
|  | •  [BIO 6633 - Population Community Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=198) |
|  | •  [BIO 6653 - Aquatic Ecotoxicology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=199) |
|  | •  [BIO 6684 - Biological Data Analyses](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=200) |

REVISED VERSION:

|  |  |
| --- | --- |
| **Biology** | |
|  | •  [BIO 504V - Special Topics in the Biological Sciences](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=203) |
|  | •  [BIO 638V - Thesis](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=204) |
|  | •  [BIO 680V - Independent Study](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=205) |
|  | •  [BIO 5001 - Laboratory Techniques in Electron Microscopy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=104) |
|  | •  [BIO 5003 - Laboratory for Laboratory Techniques in Electron Microscopy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=105) |
|  | •  [BIO 5013 - Population Genetics](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=106) |
|  | •  [BIO 5033 - Bioinformatics and Applications](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=107) |
|  | •  [BIO 5043 - Biometry](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=108) |
|  | •  [BIO 5053 - Applications in Biotechnology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=109) |
|  | •  [BIO 5063 - Biosafety and Ethics in Research](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=110) |
|  | •  [BIO 5103 - Virolog](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=111) |
|  | •  [BIO 5104 - Microbiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=112) |
|  | •  [BIO 5113 - Immunology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=113) |
|  | •  [BIO 5123 - Cell Signaling](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=114) |
|  | •  [BIO 5131 - Laboratory for Cell Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=115) |
|  | •  [BIO 5133 - Cell Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=116) |
|  | •  [BIO 5143 - Pharmacology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=117) |
|  | •  [BIO 5153 - Laboratory in BioTechniques I](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=118) |
|  | •  [BIO 5163 - Laboratory in BioTechniques II](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=119) |
|  | •  [BIO 5213 - Human Genetics](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=122) |
|  | •  [BIO 5301 - Aquatic Entomology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=123) |
|  | •  [BIO 5302 - Laboratory for Aquatic Entomology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=124) |
|  | •  [BIO 5311 - Fishery Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=125) |
|  | •  [BIO 5312 - Laboratory for Fishery Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=126) |
|  | •  [BIO 5322 - Biology of Marine Mammals Laboratory](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=127) |
|  | •  [BIO 5323 - Biology of Marine Mammals](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=128) |
|  | •  [BIO 5332 - Animal Histology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=129) |
|  | •  [BIO 5333 - Marine Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=130) |
|  | •  [BIO 5341 - Laboratory for Animal Embryology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=131) |
|  | •  [BIO 5342 - Laboratory for Animal Histology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=132) |
|  | •  [BIO 5343 - Animal Embryology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=133) |
|  | •  [BIO 5354 - Mammalogy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=134) |
|  | •  [BIO 5361 - Laboratory for Mammalian Neurobiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=135) |
|  | •  [BIO 5362 - Applied Aquaculture](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=136) |
|  | •  [BIO 5363 - Mammalian Neurobiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=137) |
|  | •  [BIO 5371 - Laboratory for Animal Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=138) |
|  | •  [BIO 5372 - Applied Fisheries](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=139) |
|  | •  [BIO 5373 - Animal Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=140) |
|  | •  [BIO 5384 - Parasitology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=141) |
|  | •  [BIO 5401 - Laboratory for Ichthyology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=142) |
|  | •  [BIO 5402 - Ichthyology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=143) |
|  | •  [BIO 5403 - Comparative Vertebrate Reproduction](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=144) |
|  | •  [BIO 5411 - Laboratory for Herpetology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=145) |
|  | •  [BIO 5421 - Laboratory for Ornithology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=146) |
|  | •  [BIO 5423 - Ornithology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=147) |
|  | •  [BIO 5433 - Field Experience in Marine Environments](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=148) |
|  | •  [BIO 5441 - Comparative Animal Physiology Laboratory](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=149) |
|  | •  [BIO 5443 - Comparative Animal Physiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=150) |
|  | •  [BIO 5444 - Wildlife Population Modeling](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=151) |
|  | •  [BIO 5453 - Herpetology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=152) |
|  | •  [BIO 5511 - Laboratory for Plant Physiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=153) |
|  | •  [BIO 5513 - Plant Physiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=154) |
|  | •  [BIO 5521 - Laboratory for Wetlands Plant Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=155) |
|  | •  [BIO 5522 - Wetlands Plant Ecology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=156) |
|  | •  [BIO 5541 - Laboratory for Mycology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=157) |
|  | •  [BIO 5542 - Mycology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=158) |
|  | •  [BIO 5551 - Laboratory for Medical Mycology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=159) |
|  | •  [BIO 5552 - Medical Mycology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=160) |
|  | •  [BIO 5601 - Laboratory for Limnology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=161) |
|  | •  [BIO 5603 - Limnology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=162) |
|  | •  [BIO 5611 - Radiation in Our World](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=163) |
|  | •  [BIO 5623 - Environmental Microbiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=164) |
|  | •  [BIO 5633 - Environmental Toxicology: Mechanisms and Impacts](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=165) |
|  | •  [BIO 5684 - Biological Data Analyses](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=166) |
|  | •  [BIO 5704 - Plant Systematics](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=167) |
|  | •  [BIO 5714 - Dendrology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=168) |
|  | •  [BIO 5813 - Curation of Collections](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=169) |
|  | •  [BIO 5823 - Natural History Collections Research Design](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=170) |
|  | •  [BIO 6001 - Biological Seminar](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=171) |
|  | •  [BIO 6003 - Scientific Methods and Research Design](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=172) |
|  | •  [BIO 6013 - Evolutionary Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=173) |
|  | •  [BIO 6043 - The Anatomy of a Grant](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=174) |
|  | •  [BIO 6113 - Advanced Cell Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=175) |
|  | •  [BIO 6123 - Specialized Biochemistry](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=176) |
|  | •  [BIO 6143 - Introduction to Biotechnology & Research Design](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=177) |
|  | •  [BIO 6196 - Internship in Biotechnology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=178) |
|  | •  [BIO 6301 - Aquatic Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=179) |
|  | •  [BIO 6302 - Laboratory for Aquatic Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=180) |
|  | •  [BIO 6311 - Laboratory for Medical and Veterinary Entomology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=181) |
|  | •  [BIO 6313 - Medical and Veterinary Entomology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=182) |
|  | •  [BIO 6321 - Laboratory for Insect Taxonomy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=183) |
|  | •  [BIO 6322 - Insect Taxonomy](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=184) |
|  | •  [BIO 6343 - Cell & Molecular Neurobiology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=188) |
|  | •  [BIO 6371 - Practicum I](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=190) |
|  | •  [BIO 6372 - Practicum II](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=191) |
|  | •  [BIO 6503 - Mechanisms of Speciation](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=192) |
|  | •  [BIO 6513 - Global Change Biology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=193) |
|  | •  [BIO 6601 - Laboratory for Environmental Systems Analysis](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=194) |
|  | •  [BIO 6621 - Laboratory for Case Studies in Ecosystem Management](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=196) |
|  | •  [BIO 6623 - Case Studies in Ecosystem Management](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=197) |
|  | •  [BIO 6653 - Aquatic Ecotoxicology](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=199) |
|  | •  [BIO 6684 - Biological Data Analyses](https://catalog.astate.edu/preview_course_nopop.php?catoid=2&coid=200) |