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

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

**[X] Undergraduate Curriculum Council**

**[ ] 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 | 3/1/2022 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Stephen J. Mullin | 3/1/2022 |

**Department Chair** |

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**Head of Unit (if applicable)**   |
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**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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**College Dean** |

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

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**Vice Chancellor for Academic Affairs** |

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

**Travis D. Marsico; tmarsico@astate.edu; 8191**

1. **Proposed Starting Date**

**8/16/2022**

To be implemented starting in Fall 2022

1. **Title of degree program:**

Bachelor of Science in Biology

1. **Proposed name of new option/concentration/emphasis/minor:**

Bachelor of Science in Biology: Emphasis in Evolution, Ecology & Organismal Biology (EEOB)

1. **Reason for proposed action that includes rationale, goals, and student population served:**

We have submitted three emphasis deletion forms to delete program emphases in Biology, Botany, and Zoology. Combined, these three emphasis areas currently serve 43 students. With a new combined and simplified emphasis in Evolution, Ecology & Organismal Biology, we are 1) improving our curriculum based on assessment data outcomes by requiring the evolution course of all majors in this emphasis area, 2) streamlining thematic emphasis within the major areas from four to two (EEOB and Pre-Professional), 3) increasing recruitment potential through the flexibility associated with the upper-level electives that better reflect faculty expertise through recent tenure-track hiring, and 4) simplify student advising through an easier, more flexible emphasis degree plan.

1. **Provide the following:**
	1. Curriculum outline - List of courses in new option/concentration/emphasis/minor – Underline required courses

See attached check sheet (File 8b).

* 1. Total semester credit hours required for option/emphasis/concentration/minor

81 hours in major requirements of which 39 hours are Biology Core requirements, 15-19 hours are Biology Choice Requirements, 14-18 hours are upper-level Biology Elective requirements, and 9 hours are electives. See attached Check sheet (File 8b) for additional detail.

* 1. Student demand (projected enrollment) for program option

50+ because of moving students from Biology, Botany, and Zoology emphases into EEOB.

1. **Will the new option/emphasis/concentration/minor be offered:**
	1. **Traditional/Face-to-face** Yes
	2. **Distance/Online** No
		1. **If yes, indicate mode of distance delivery, and the percentage of courses offered via this modality (<50%, 50-99%, or 100%).**

N/A

* + 1. **If online, will it be offered through Global Initiatives/Academic Partnerships (AP)?**

N/A

1. **Specify the amount of the additional costs required, the source of funds, and how funds will be used.**

No additional cost is required for the program. This is a reconfiguration of departmental emphasis areas with the deletion of three emphases (Biology, Botany, and Zoology) and the creation of one to replace those three (Evolution, Ecology & Organismal Biology [EEOB]).

**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.**  |

Likely to be added in 2022-2023 bulletin around page 411.

Major in Biological Sciences

**Bachelor of Science**

**Emphasis in Evolution, Ecology, and Organismal Biology (EEOB)**

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. 47)  |
| **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. 84) **Students with this major must take the following:** *MATH 2194 Survey of Calculus* ***OR*** *MATH 2204, Calculus I* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 1503* ***AND*** *1501, Biology of Plants and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*  | **36**  |
| **Language Requirement:**  |  |
| *A student must complete the foreign language requirements before graduating as a Biological Sciences Major. (Refer to Department of Biological Sciences Foreign Language Requirement, p. 410).*  |
| **Major Requirements:**  | Sem. Hrs.  |
| BIO 1303 **AND** 1301, Biology of Animals and Laboratory  | 4  |
| BIO 2013 **AND** 2011, Biology of the Cell and Laboratory  | 4  |
| BIO 3013 **AND** 3011, Genetics and Laboratory  | 4  |
| BIO 3023, Principles of Ecology  | 3  |
| BIO 4083, Evolution | 3 |
| BIO 4021, Biological Seminar  | 1  |
| CHEM 1023 **AND** 1021, General Chemistry II and Laboratory  | 4  |
| CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory  | 4  |
| CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory  | 4  |
| PHYS 2054, General Physics I  | 4  |
| PHYS 2064, General Physics II  | 4  |
| Sub-total  | 39  |
| **Biology Choice Requirements (Choose among the courses in thematic categories) 15-19 hrs:**  | 15-19  |
| Physiology (Choose 1 of the following) | Sem. Hrs. |
| BIO 4443 **AND** 4441, Comparative Animal Physiology and Laboratory **OR**BIO 4513, Plant Physiology | 3-4  |
| Microorganisms and microscopy (Choose 1 of the following) | Sem. Hrs. |
| BIO 3542 AND 3541, Plant Pathology and Laboratory OR BIO 4011 **AND** 4012, Microtechnique and Laboratory **OR**BIO 4104, Microbiology ORBIO 4542 AND 4541, Mycology and Laboratory OR BIO 4552 AND 4551, Medical Mycology and Laboratory | 3-4 |
| Statistics (Choose 1 of the following) | Sem. Hrs. |
| BIO 4043, Biometry ORSTAT 3233, Applied Statistics I | 3 |
| Cell and Molecular Biology (Choose 1 of the following) | Sem. Hrs. |
| BIO 4133 AND 4131, Cell Biology and Laboratory ORBIO 4173, Molecular Biology | 3-4 |
| Taxon-focused Electives (Choose 1 of the following) | Sem. Hrs. |
| BIO 3303 AND 3301, General Entomology and Laboratory OR BIO 3322 **AND** 3332, Invertebrate Zoology and Laboratory **OR**BIO 4354, Mammalogy **OR**BIO 4384, Parasitology **OR**BIO 4402 **AND** 4401, Ichthyology and Laboratory **OR**BIO 4423 **AND** 4421, Ornithology and Laboratory **OR**BIO 4454, Herpetology **OR**BIO 4704, Plant Systematics ORBIO 4714, Dendrology | 3-4  |
| **Upper-level Biology Electives – 14-18 hours of electives; must have BIO prefix and be 3000- or 4000-level** | 14-18 |
| **Electives**  | 9 |
| Sub-total of Biology Choice Requirements, Upper-level Biology Electives, and other Electives | 42 |
| **Total Required Hours:**  | **120** |