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| For Academic Affairs and Research Use Only | |
| Proposal Number | SM05 |
| CIP Code: |  |
| Degree Code: |  |

**New or Modified Course Proposal Form**

**[ X ] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| --- |
| **[ ]New Course, [ ]Experimental Course (1-time offering), or [ X ]Modified Course (Check one box)** |

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 12/20/2022 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Stephen J. Mullin 12/20/2022 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| John Hershberger 1/23/2023  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Director of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| Jennifer L. Bouldin 1/27/2023 **College Dean** | Len Frey 2/22/2023  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

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

Than Boves; tboves@astate.edu; x3082

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

Autumn 2023.

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

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|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** | **BIO** | **BIO** |
| **Number\*** | **4373 and 4371** | **4374** |
| **Title**  (include a short title that’s 30 characters or fewer) | **Animal Ecology and**  **Animal Ecology Laboratory** | **Behavioral Ecology** |
| **Description\*\*** | The relationship of animals to their chemical, physical, and biological environment, and the distribution of animal life. Lecture three hours per week. Fall. Special course fees may apply.  and  Two hours per week. Fall, odd. Special course fees may apply. | Examines the ecological context in which behaviors evolve. How animal behaviors influence survival and reproduction of individuals in different ecological settings. Lecture three hours per week, lab two hours per week. Fall, odd. Special course fees may apply.  Prerequisites: BIO 3023. |

***\**** Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*.

\*\*Forty words or fewer (excepting prerequisites and other restrictions) as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? No]**

(Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. **Yes / No** Are there any prerequisites? Yes
   1. If yes, which ones?

BIO 3023 (Principles of Ecology)

* 1. Why or why not?

Student understanding of material presented in lower-level courses is needed in order to avoid unnecessary redundancy and review of foundational material. Specifically, students need background in the basic ecological concepts that are highlighted in Principles of Ecology.

1. **Yes / No** Is this course restricted to a specific major? No
   1. If yes, which major? n/a
2. **Proposed course frequency [Modification requested? No]**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

Fall

1. **Proposed course type [Modification requested? Yes]**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Lecture and lab. The two separate sections are being combined into a single course that includes both lecture and lab components.

1. **Proposed grade type [Modification requested? No]**

What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Standard letter

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

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross-listed course.)*

**a.** – If yes, please list the prefix and course number of the cross-listed course.

n/a

**b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

n/a

1. **Yes / No** Is this course in support of a new program? No

a. If yes, what program?

n/a

1. **Yes / No** Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)? Yes

a. If yes, which course?

BIO 4373 and BIO 4371

**Course Details**

1. **Proposed outline** **[Modification requested? No]**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

Lecture outline

Week Topics/Activities

1 Introduction; ultimate and proximate explanations; natural selection and behavior

2 Observing behavior, asking questions and testing hypotheses

3 Asking questions and testing hypotheses; Economics (costs and benefits) of animal behavior;

4 Economics of animal behavior

5 Evolutionary Arms Race: Co-evolution and predator-prey relationships

6 Evolutionary Arms Race; Competition for resources

7 Competition for resources

8 Competition for resources; Midterm Exam

9 Living in Groups

10 Sexual Selection

11 Parental care

12 Mating Systems

13 Kin Selection and Sociality; Scientific Presentation workshop

14 Cooperation and Altruism; Papers Due

15 Project presentations

Lab outline

Introductory material

Lab 1: Observing behavior; Ethogram

Lab 2: Economics: Squirrel activity time budget on campus

Lab 3: Optimal foraging decisions

Lab 4: Evolutionary Arms Races

Lab 5: Territoriality and interspecific communication

Lab 6: Group living: Testing the dilution effect

Lab 7: Animal Ecology at the Memphis Zoo

Lab 8: Sexual selection: Battle of the sexes

Lab 9: Parental care: Nestling provisioning

Lab 10: Mating Systems: Mating game

Lab 11: Integrating behavioral ecology and conservation: Loggerhead Shrikes

Lab 12: Project Presentations

Lab 13: Project Presentations

1. **Proposed special features** **[Modification requested? No]**

(e.g. labs, exhibits, site visitations, etc.)

Enter text...

1. **Department staffing and classroom/lab resources**

Existing, though commodities are replaced on an annual basis.

1. Will this require additional faculty, supplies, etc.?

No, excepting those commodities &/or software applications that need to be replaced/renewed.

1. **Yes / No** Does this course require course fees? Yes

*If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

This proposal combines the lecture and lab into a 4-credit course with a single grade (the existing, separate sections of lecture and lab are to be deleted upon approval of this modification request). Lecture and lab content are complementary, with the student learning material in one portion of the course that reinforces terminology and concepts that are presented in the other portion of the course. The title of the course is being changed from Animal Ecology to Behavioral Ecology to better reflect the conceptual framework in which the content is presented. The prerequisite course remains as BIO 3023 (Principles of Ecology) because students enrolled in Behavioral Ecology will be expected to be familiar with basic ecological concepts.

SUMMARY of proposed changes:

* Combine lecture (3 SCH) and lab (1 SCH) sections into a single course (4 SCH)
* Change the name of the course to better reflect concepts that are presented.
* Excepting the prerequisites, parallel changes to grad. version of course (BIO 5374).

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

Enter text...

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

Enter text...

c. Student population served.

Enter text...

d. Rationale for the level of the course (lower, upper, or graduate).

Enter text...

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. NO Do the proposed modifications result in a change to the assessment plan? No.

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

Enter text...

1. Considering the indicated program-level learning outcome/s (from question #19), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #19)** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Assessment Measure | Please include direct and indirect assessment measure for outcome. |
| Assessment  Timetable | What semesters, and how often, is the outcome assessed? |
| Who is responsible for assessing and reporting on the results? | Who (person, position title, or internal committee) is responsible for assessing, evaluating, and analyzing results, and developing action plans? |

*(Repeat if this new course will support additional program-level outcomes)*

**Course-Level Outcomes**

1. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Which learning activities are responsible for this outcome? | List learning activities. |
| Assessment Measure | What will be your assessment measure for this outcome? |

*(Repeat if needed for additional outcomes)*

**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.** |

Because the AY22-23 version of the Bulletin is not available in .pdf format, it is impossible to cut/paste pages that would accurately reflect the changes. Assuming that the requested modification is approved, changes to the current Bulletin involve the deletion of the courses being replaced:

~~BIO 4371 – Laboratory for Animal Ecology~~ **~~Sem. Hrs: 1~~**

~~BIO 4373 – Animal Ecology~~ **~~Sem. Hrs: 3~~**

The Course Descriptions section of the online version of the Bulletin would include something like this:

BIO 4374 – Behavioral Ecology

**Sem. Hrs: 4**

Examines the ecological context in which behaviors evolve. How animal behaviors influence survival and reproduction of individuals in different ecological settings. Lecture three hours per week, lab two hours per week. Fall, odd. Special course fees may apply. Prerequisite, BIO 3023.