1. **Catalog Description of the Course.** [Follow accepted catalog format.]

Prefix BIOL  
Course# 407  
Title BEHAVIORAL ECOLOGY  
Units (3)  
3 hours  lecture per week  
hours  blank per week  
☑ Prerequisites Biol 200  
☐ Corequisites  
Description Examination of the evolutionary and ecological basis for animal behavior. Topics include: cooperative and competitive interactions, mating systems, reproductive behavior and eusociality

Graded  
☐ Gen Ed  
☐ CR/NC  
☐ Repeatable for up to units

Categories  
☐ Lab Fee Required  
☒ A - F  
☐ Optional (Student’s choice)  
☐ Total Completions Allowed  
☐ Multiple Enrollment in same semester

☐ Title V Section 40404:  
☐ Government  
☐ US Constitution  
☐ US History

2. **Mode of Instruction.**

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Hours per Unit</th>
<th>Benchmark Enrollment</th>
<th>Graded Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>40</td>
<td>☒</td>
</tr>
</tbody>
</table>

3. **Justification and Learning Objectives for the Course.** (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements)  
[Use as much space as necessary]

This course will be an elective for Biology majors.

Learning Objectives:

Upon completion, the student will be able to:

- Explain the influence of natural selection on behavior
- Describe and give examples of reproductive behaviors and mating strategies employed by animals
- Explain cooperative and competitive behavioral interactions
- Define eusociality and explain the costs and benefits of this strategy

4. **Is this a General Education Course**  
YES ☐  
NO ☒

If Yes, indicate GE category and attach GE Criteria Form:

- **A (English Language, Communication, Critical Thinking)**
  - A-1 Oral Communication
  - A-2 English Writing
  - A-3 Critical Thinking

- **B (Mathematics, Sciences & Technology)**
  - B-1 Physical Sciences
  - B-2 Life Sciences – Biology
  - B-3 Mathematics – Mathematics and Applications
  - B-4 Computers and Information Technology

- **C (Fine Arts, Literature, Languages & Cultures)**
  - C-1 Art
  - C-2 Literature Courses
  - C-3a Language
5. Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]

- Natural selection and adaptations
- Research methods in behavioral ecology
- Foraging behavior
- Anti-predation behavior
- Competition and territoriality
- Mating systems and strategies
- Eusociality
- Altruism
- Mutualism
- Migration and dispersal

Does this course overlap a course offered in your academic program? YES ☐ NO ☒
If YES, what course(s) and provide a justification of the overlap?

Does this course overlap a course offered in another academic area? YES ☐ NO ☒
If YES, what course(s) and provide a justification of the overlap?
Signature of Academic Chair(s) of the other academic area(s) is required on the signature sheet below.

6. Cross-listed Courses (Please fill out separate description for each PREFIX)

List Cross-listed Courses

Signature of Academic Chair(s) of the other academic area(s) is required on the signature sheet below.

Department responsible for staffing:

7. References. [Provide 3 - 5 references on which this course is based and/or support it.]


8. List Faculty Qualified to Teach This Course.

Biology faculty

9. Effective Date and Frequency.
   a. Projected semesters to be offered: Fall ☒ Spring ☒ Summer ☐
   b. First semester offered: 2008
10. **New Resources Required.** YES ☑ NO ☐
   If YES, list the resources needed and obtain signatures from the appropriate programs/units on the sheet below.
   
   a. Computer (data processing), audio visual, broadcasting needs, other equipment
   
   b. Library needs
   
   c. Facility/space needs

11. **Will this new course alter any degree, credential, certificate, or minor in your program?** YES ☑ NO ☐
   If YES attach a program modification form for all programs affected.

   Nancy Mozingo _______________________________ 22 October 2006
   Proposer of Course _______________________________ Date
Approval Sheet
Program/Course: BIOL 407

________________________________________________________
Program Chair(s)    Date

________________________________________________________
General Education Chair(s)    Date

________________________________________________________
Curriculum Committee Chair(s)    Date

________________________________________________________
Dean of Faculty    Date