CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

DATE 11.27.06
PROGRAM AREA BIOLOGY

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 Total Completions Allowed
☐ Optional (Student's choice) ☐ Multiple Enrollment in same semester
☐ Title V Section 40404: ☐ Government ☐ US Constitution ☐ US History

2. Mode of Instruction.

	Units	**Hours per Unit**	**Benchmark Enrollment**	**Graded Component**	**CS & HEGIS #** (filled in by Dean)
Lecture	3	1	40	☒	
Seminar				☐	
Laboratory				☐	
Activity				☐	

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 coorporative and competive 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 ☐

C-3b Multicultural ☐
D (Social Perspectives) ☐
E (Human Psychological and Physiological Perspectives) ☐
UD Interdisciplinary ☐

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.]*

Introduction to Behavioral Ecology, 3rd edition. J.R. Krebs and N.B. Davies. 1993. Blackwell.

Behavioral Ecology: An Evolutionary Approach, 4th edition. J.R. Krebs and N.B. Davies. 1997. Blackwell.

Model Systems in Behavioral Ecology:Integrating Conceptual, Theoretical, and Empirical Approaches. L. A. Dugatkin. 2001. Princeton University Press.

Animal Behavior: An Evolutionary Approach, 8th edition. J. Alcock. 2005. Sinauer.

Animal Behavior: Mechanisms, Ecology, Evolution, 5th edition. L.C. Drickamer, S. H.Vessey and E.Jakob. 2001. McGraw Hill.

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