

OHIO STATE COURSE CHANGE REQUEST

College BIOLOGICAL SCIENCES

Department EVOLUTION, ECOLOGY, AND ORGANISMAL BIOLOGY Book 3 Listing: EEOB
 (e.g., Portuguese)

Proposed Effective Qtr/Yr: SU AU WI SP YEAR: 2008
 (See OAA Academic Organization and Curriculum Handbook for Deadlines)

A. Course Offerings Bulletin Information. Follow instructions in the *OAA Academic Organization and Curriculum Handbook*. Before you fill out the "Present Course" information, be sure to check the latest edition of the Course Offerings Bulletin and subsequent Circulating Forms. You may find that the changes you need have already been made or that additional changes are needed.

* If the course offered is less than quarter, term, or semester, please also complete the Flexibly Scheduled/Off Campus/Workshop Request form.

COMPLETE ALL ITEMS THIS COLUMN

Present Course

1. Book 3 Listing: EEOB
2. Number: 413.01
3. Full Title: Introduction to Ecology, Lecture
4. 18-Char. Transcript Title: _____
5. Level and Credit Hours U 3
6. Description: _____

 (25 words or less)
7. Qtrs. Offered : SU AU WI SP
 1st SEM 2nd SEM
8. Distribution of Contact Time: 3 cl.
 (e.g., 3 cl, 1 3-hr lab)
9. Prerequisite(s): 10 cr hr in biological sciences
10. Exclusion: _____
 (Not open to...)
11. Repeatable to a maximum of _____ credits.
12. Off-Campus Field Experience: several field trips
13. Cross-listed with: _____
14. Check the curricular requirement this course fulfills:
 BER LAR GEC 3rd writing course
15. Grade option (circle): Ltr S/U P
 If P graded, what is the last course in the series? _____
16. Is an honors version of this course available? Y X
 Is an Embedded Honors version of this course available? Y N X
17. Other general course information: _____

COMPLETE ONLY THOSE ITEMS THAT CHANGE

Changes Requested

- _____
- 513.01
- _____
- U 4
- _____
- SU AU WI SP
 1st SEM 2nd SEM
- 4 cl.
- Prior to Au 2009: 10 cr hrs in biological sciences;
 effective Au 2009: Biology 402 or 20 hrs in biological sciences**
- Repeatable to a maximum of _____
 _____ credits.
- _____
- Cross listed with: _____
- Check the curricular requirement this course fulfills:
 BER LAR GEC 3rd writing course
- Grade option (circle): Ltr S/U P
- Last course in Progress series: _____
Y N

B. General Information:

1. Do you want prerequisites enforced electronically? YES **XX** NO
(See OAA Academic Organization and Curriculum Handbook for what can be enforced.)
2. Does this course currently satisfy any GEC requirement? YES NO **XX**
3. What other units require this course? **NONE**
Have these changes been discussed with those units? YES NO
4. Have these changes been discussed with academic units that might have a jurisdictional interest in the subject matter? **ENR in FAES, Biology Major in CBS**
[Attach relevant letters.] YES **XX** NO
5. Is the request contingent upon other requests? YES NO **XX**

List:

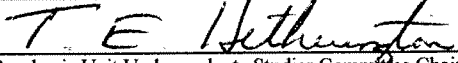
6. Purpose of the proposed change. (If the proposed change affects the content of the course, attach revised syllabus and course objectives).

As approximately 50% of the enrollment in EEOB 413.01 is composed of Biology majors, this course must be modified to reflect the addition of the new Biology 401-402 sequence into the Biology major. An increase in the conceptual approach and the mathematical rigor of the course is warranted, both because the students taking the course will have a greater level of preparation from Biology 402 and because the field of ecology has become more quantitative and mathematical since the course was last formally modified. The addition of mathematical problem sets to the course requires that a recitation hour be added to the current format of three lecture hours. This increase in class time and credit hours is consistent with the changes made to the other EEOB core courses (EEOB 400, EEOB 405.01, and EEOB 410) in recent years. The change in course number will reflect the position of this course as a post Biology 401-402 core experience.

7. Describe any changes in library, equipment or other teaching aids needed as a result of the proposed change: **none**

8. If the proposed change involves budgetary adjustments, describe the method of funding: **none**

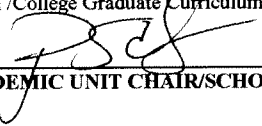
APPROVAL SIGNATURES (As needed. All signatures on lines in ALL CAPS (e.g. ACADEMIC UNIT) must be completed

 T.E. HETHERINGTON MAY 16, 2007
Academic Unit Undergraduate Studies Committee Chair (Undergrad course) Printed Name Date

Academic Unit Graduate Studies Committee Chair((Undergrad/Graduate course) Printed Name Date

School /College Undergrad Curriculum Committee (Undergrad/Grad course) Printed Name Date

School /College Graduate Curriculum Committee (Undergrad/Grad course) Printed Name Date

 Peter S. Curtis 5/13/07
ACADEMIC UNIT CHAIR/SCHOOL DIRECTOR Printed Name Date

COLLEGE DEAN Printed Name Date

Graduate School (If Appropriate) Printed Name Date

ASC Curriculum Committee Chair (If Appropriate)) Printed Name Date

University Honors Center (If Appropriate) Printed Name Date

Office of International Education (study tour only) Printed Name Date

ACADEMIC AFFAIRS Printed Name Date

Tuesday-Thursday 10:30-11:48; 1180 Postle Hall
LECTURE SCHEDULE AND READING ASSIGNMENTS
WINTER QUARTER 2007

[[With Proposed, New Recitation Topics Added]]

<u>Lec #</u>	<u>Day</u>	<u>Date</u>	<u>Topic</u>	<u>Chapters</u>
1	Th	1/04_	Course overview	
			Why study ecology?	1
2	Tu	1/30-09_	Evolution and Ecology	2
3	Th	1/11	Climate and terrestrial and aquatic biomes	3, 23-25
RECITATION: ANATOMY OF A SCIENTIFIC PAPER				
4	Tu	1/07-16_	Abiotic environment	4,5
5	Th	1/09-18_	QUIZ I 50 points Organisms and their environment	6, 7
RECITATION: LIBRARY SEARCH STRATEGIES – PREPARING FOR THE RESEARCH PAPER				
6	Tu	1/14-23_	RESEARCH PAPER TOPICS DUE Population dynamics I	8, 9
7	Th	1/25	Population dynamics II	10, 11
RECITATION: EXERCISES INVOLVING MATHEMATICAL MODELS OF POPULATION GROWTH				
8	Tu	1/30	QUIZ II 50 points Species interactions I: competition	13
9	Th	2/21-01_	Species interactions II: predation, herbivory and mutualism	14
RECITATION: EXERCISES INVOLVING LOTKA-VOLTERRA AND OTHER COMPETITION MODELS				
10	Tu	2/23-06_	RESEARCH PAPER ARTICLE SELECTION DUE Species interaction III: predation, herbivory and mutualism	14, 15
11	Th	2/30-8	Midterm exam	
RECITATION: EXERCISES INVOLVING THE EVOLUTIONARY STABILITY OF MUTUALISMS				
12	Tu	2/13_	RESEARCH PAPER OUTLINES DUE (20 pts) Community structure	16, 17
13	Th	2/06-15	Community change	18
RECITATION: EXERCISES INVOLVING SUCCESSIONAL MODELS				
14+3	Tu	2/11-20	SEMINAR REPORTS 1 & 2 DUE (30 pts each) Ecosystems I: energy	20
14+5	Th	2/13-22	Ecosystems II: nutrients and cycling	20-22
RECITATION: ECOSYSTEM MODELS BASED ON ENERGY AND MATERIAL FLUX				
15+6	Tu	2/18-27_	Biogeography and biodiversity	19, 26

QUIZ III 50 pts
17 Th 3/020-1_

QUIZ III 50 pts
Human impacts

27, 28

<u>Lec #</u>	<u>Day</u>	<u>Date</u>	<u>Topic</u>	<u>Chapters</u>
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RECITATION: HUMAN POPULATION AND RESOURCE MODELS

18 Tu 3/06

SEMINAR REPORT 3 DUE (40 pts)
RESEARCH PAPERS DUE (80 pts)
Global environmental change

29

1719 Th 3/08

Course review

RECITATION: STUDENT EVALUATIONS AND DISCUSSION OF COURSE IMPROVEMENT

Monday 3/9/12

Final Exam, 1180 Postle Hall (9:30 – 11:18 AM)
(comprehensive exam25-): 200 pts

NOTES:

- Each of three quizzes will be given at the beginning of the lecture, promptly beginning at 10:30 AM and ending at 11:00 AM. The remainder of the class period on these days will be spent on lecture material.