

The Ohio State University
Colleges of the Arts and Sciences New Course Request

Evolution, Ecology, and Organismal Biology

Academic Unit
 EEOB

Book 3 Listing (e.g., Portuguese)
 299.01 Undergraduate Research: The X Project

Number	Title	U	Level	Credit Hours
Research: X Project		U		4
18-Character Title Abbreviation			Level	Credit Hours
Summer	Autumn	Winter	X	Spring
				Year
				2007

Proposed effective date, choose one quarter and put an "X" after it; and fill in the year. See the OAA curriculum manual for deadlines.

A. Course Offerings Bulletin Information

Follow the instructions in the OAA curriculum manual. If this is a course with decimal subdivisions, then use one New Course Request form for the generic information that will apply to all subdivisions; and use separate forms for each new decimal subdivision, including on each form the information that is unique to that subdivision. If the course offered is less than a quarter or a term, please complete the Flexibly Scheduled/Off Campus/Workshop Request form.

Description (*not to exceed 25 words*): Students enrolled in this course will participate in an on-going research project examining the reproductive biology and evolution of *Xenopus laevis*.

Quarter offered: AU, WI, SP, SU Distribution of class time/contact hours: 2 cl, 5 lab/week

Quarter and contact/class time hours information should be omitted from Book 3 publication (**yes** or **no**):

Prerequisite(s): none

Exclusion or limiting clause:

Repeatable to a maximum of 40 credit hours.

Cross-listed with:

Grade Option (Please check): Letter S/U Progress What is course is last in the series? _____

Honors Statement:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	GEC:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Admission Condition
Off-Campus:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	EM:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Course: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Other General Course Information: Only 5 credit hours of 299, 693, 699, and H783 count toward a major in the Biological Sciences.

(e.g. "Taught in English." "Credit does not count toward BSBA degree.")

B. General Information

Subject Code _____ Subsidy Level (V, G, T, B, M, D, or P) _____

If you have questions, please email Jed Dickhaut at dickhaut.1@osu.edu.

1. Provide the rationale for proposing this course:
 This course provides a clear and smooth entry for undergraduate students into the realm of research. It is intended to prepare students to be full participants in an established research project, presenting to them the background for the project, the necessary safety training, training in techniques, and philosophy of research.

2. Please list Majors/Minors affected by the creation of this new course. Attach revisions of all affected programs.
 This course is (check one): Required on major(s)/minor(s) A choice on major(s)/minors(s)
 An elective within major(s)/minor(s) A general elective:

3. Indicate the nature of the program adjustments, new funding, and/or withdrawals that make possible the implementation of this new course.

No adjustments are necessary.

4. Is the approval of this request contingent upon the approval of other course requests or curricular requests?

Yes No List:

5. If this course is part of a sequence, list the number of the other course(s) in the sequence: _____

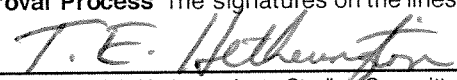
6. Expected section size: _____ Proposed number of sections per year: _____

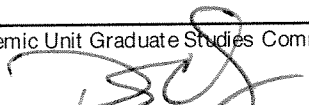
7. Do you want prerequisites enforced electronically (see OAA manual for what can be enforced)? Yes No

8. This course has been discussed with and has the concurrence of the following academic units needing this course or with academic units having directly related interests (List units and attach letters and/or forms):
Not Applicable

9. Attach a course syllabus that includes a topical outline of the course, student learning outcomes and/or course objectives, off-campus field experience, methods of evaluation, and other items as stated in the OAA curriculum manual and e-mail to ascurofc@osu.edu.

Approval Process The signatures on the lines in ALL CAPS (e.g. ACADEMIC UNIT) are required.

	T. E. HETHERINGTON	6/7/06
1. Academic Unit Undergraduate Studies Committee Chair	Printed Name	Date

	Peter S. Curtis	6/7/06
2. Academic Unit Graduate Studies Committee Chair	Printed Name	Date
3. ACADEMIC UNIT CHAIR/DIRECTOR	Printed Name	Date

4. After the Academic Unit Chair/Director signs the request, forward the form to the ASC Curriculum Office, 105 Brown Hall, 190 West 17th Ave. or fax it to 688-5678. Attach the syllabus and any supporting documentation in an e-mail to ascurofc@osu.edu. The ASC Curriculum Office will forward the request to the appropriate committee.

5. COLLEGE CURRICULUM COMMITTEE Printed Name Date

6. ARTS AND SCIENCES EXECUTIVE DEAN Printed Name Date

7. Graduate School (if appropriate) Printed Name Date

8. University Honors Center (if appropriate) Printed Name Date

9. Office of International Education (if appropriate) Printed Name Date

10. ACADEMIC AFFAIRS Printed Name Date

EEOB 299.01

Undergraduate Research: The X Project

2 cl, 5 lab: 4 cr.hrs.

The X project is an on-going research project investigating the evolution, genetics, physiology, and morphology of sexual differentiation in *Xenopus laevis*. Students enrolled in this course will be the "principal investigators" in this research; they will be asking the questions, formulating the hypotheses, designing the experiments, collecting and analyzing the data, and reporting the results. The course will consist of a two-hour weekly meeting/lecture and a five-hour/week laboratory experience. Students are encouraged strongly to be involved in this project for more than one quarter. This course provides, therefore, opportunities for students to be intimately involved in cutting-edge research and to develop laboratory skills; expertise in the use of research literature; presentation skills; and teaching, mentoring, and other social skills.

In addition to attending the lecture and laboratory component of the course, students must be certified in laboratory safety, radiation safety, and animal use. These responsibilities will be met using on-line resources or by attending training sessions scheduled during the lectures. Students also will maintain a laboratory notebook/journal and a time-record of their activities in the course. Students will be asked to include specific, short, reflective writing assignments in their journals.

Grading will be based on the reliability of the student (40%), the quality of the laboratory notebook/journal (40%), and a final examination covering safety and laboratory skills (20%). Only whole-letter grades will be awarded.

Prerequisite: none

Eight credit hours of EEOB 299.01 and EEOB 699.01 may count toward a major in the biological sciences. EEOB 299.01 may not be repeated.