

**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)
699.01 Undergraduate Research: The X Project

Number	Title	U	4
Research: X Project			
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: 1 cl, 10 lab/week

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

Prerequisite(s): EEOB 299.01

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 No GEC: Yes No Admission Condition
Off-Campus: Yes No EM: Yes No Course: Yes No

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 formal framework for undergraduates participating together in an on-going research project.

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.

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

2. [Signature] _____ Printed Name Date
Peter S. Curtis 6/7/06
 Academic Unit Graduate Studies Committee Chair Printed Name Date

3. **ACADEMIC UNIT CHAIR/DIRECTOR**

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. _____ Printed Name Date
COLLEGE CURRICULUM COMMITTEE

6. _____ Printed Name Date
ARTS AND SCIENCES EXECUTIVE DEAN

7. _____ Printed Name Date
 Graduate School (if appropriate)

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

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

10. _____ Printed Name Date
ACADEMIC AFFAIRS

EEOB 699.01

Undergraduate Research: The X Project

1 cl, 10 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 one-hour weekly meeting/lecture and a ten-hour/week laboratory experience. Students are encouraged strongly to be involved in this project for more than one quarter. The students who continue in the project will become mentors for newer students in the project. 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 leadership skills. Honors students may choose to identify a project within the X Project to become their own honors research as they strive to graduate with distinction in the biological sciences.

In addition to attending the lecture and laboratory component of the course, 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 quality of the laboratory notebook/journal (33%), the reliability of the student (33%), and overall participation in and contribution to the project (33%). Only whole-letter grades will be awarded.

Prerequisite: EEOB 299.01

Eight credit hours of EEOB 299.01 and EEOB 699.01 may count toward a major in the biological sciences. EEOB 699.01 may be repeated without limit.