Undergraduate Programs—NEW COURSE PROPOSAL

**DEPARTMENT:** Biological Sciences  
**COLLEGE:** Charles E. Schmidt College of Science

**RECOMMENDED COURSE IDENTIFICATION:**  
**PREFIX:** BSC  
**PREFIX CODE:** PCB  
**COURSE NUMBER:** 4067  
**LAB CODE (L or C):** L  
*(TO OBTAIN A COURSE NUMBER, CONTACT rpolanski@fau.edu)*

**COMPLETE COURSE TITLE:** Genetics Lab

**CREDITS:** 3  
**TEXTBOOK INFORMATION:** Handouts provided via Blackboard, & online resources to supplement

**GRADING (SELECT ONLY ONE GRADING OPTION):** Regular X Pass/Fail Satisfactory/Unsatisfactory

**EFFECTIVE DATE**  
(first term course will be offered)  
FALL 2014

**COURSE DESCRIPTION, NO MORE THAN 3 LINES:**  
This laboratory course is open to advanced undergraduates and graduate students. In this course students will gain significant experience in classical and molecular genetics using two powerful model systems, the roundworm Caenorhabditis elegans and fruit fly Drosophila melanogaster. Experiments will be performed to identify morphological and behavioral mutant phenotypes, investigate gene linkage and crossing over, establish dominant versus recessive and sex-linked versus autosomal inheritance, and generate genetic maps.

**PREREQUISITES w/MINIMUM GRADE*:**  
Students must have already taken Introductory Biology (BSC 1010 and 1011). While it is preferable to have also completed Genetics (PCB 3063), qualified students currently enrolled in Genetics will be considered (please contact instructors).

**COREQUISITES**:  

**REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*:**

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**WAC/GORDON RULE COURSE**  
**YES** X  
WAC/Gordon Rule criteria must be indicated in syllabus. Guidelines: [www.fau.edu/WAC/](http://www.fau.edu/WAC/)

**Faculty contact, email and complete phone number:**  
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**GENERAL EDUCATION REQUIREMENT (MARK X IN FRONT OF SELECTION):**  
____ Written Communication  
____ Mathematics/Quant. Reas.  
____ Society/Human Behavior  
____ Science/Natural World  
____ Global Citizenship  
____ Creative Expression

Must attach the appropriate General Education Course Approval Request:  
[www.fau.edu/deanugstudies/GeneralEdCourseApprovalRequests.php](http://www.fau.edu/deanugstudies/GeneralEdCourseApprovalRequests.php)

Departments and/or colleges that might be affected by the new course must be consulted and listed here. Please attach comments from each. Department of Biological Sciences: This course was previously a Special Topics and needs a new course number.

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**Approved by:**  
FAUnewcourseUG—Revised August 2011
Email this form and syllabus to mjenning@fau.edu one week before the University Undergraduate Programs Committee meeting so that materials may be viewed on the UUPC website prior to the meeting.