

# FLORIDA ATLANTIC UNIVERSITY™

UUPC APPROVAL 4/15/14  
 UFS APPROVAL \_\_\_\_\_  
 SCNS SUBMITTAL \_\_\_\_\_  
 CONFIRMED \_\_\_\_\_  
 BANNER POSTED \_\_\_\_\_  
 CATALOG \_\_\_\_\_

## Undergraduate Programs—NEW COURSE PROPOSAL

DEPARTMENT: BIOLOGICAL SCIENCES

COLLEGE: CHARLES E. SCHMIDT COLLEGE OF SCIENCE

**RECOMMENDED COURSE IDENTIFICATION:**

PREFIX BSC PCB COURSE NUMBER 4067 LAB CODE (L or C) L

(TO OBTAIN A COURSE NUMBER, CONTACT RPOLANSK@FAU.EDU)

COMPLETE COURSE TITLE: GENETICS LAB

**EFFECTIVE DATE**

(first term course will be offered)

FALL 2014

CREDITS: 3

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

GRADING (SELECT ONLY ONE GRADING OPTION): REGULAR  PASS/FAIL \_\_\_\_\_ SATISFACTORY/UNSATISFACTORY \_\_\_\_\_

**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)\*:**

\*DEFAULT MINIMUM PASSING GRADE IS D-. PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE SECTIONS.

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: SPECIALIZATION IN THE PERTINENT FIELDS, CONTINGENT UPON DEPARTMENTAL APPROVAL

**WAC/GORDON RULE COURSE**

YES \_\_\_\_\_ NO

WAC/Gordon Rule criteria must be indicated in syllabus. Guidelines: [www.fau.edu/WAC/](http://www.fau.edu/WAC/)

**GENERAL EDUCATION REQUIREMENT (MARK X IN FRONT OF SELECTION):**

Written Communication                       Society/Human Behavior  
 Mathematics/Quant. Reas.                       Global Citizenship  
 Science/Natural World                       Creative Expression

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

Faculty contact, email and complete phone number:

Kailiang Jia, M.D., Ph.D.  
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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.

Approved by:

Date:

ATTACHMENT CHECKLIST

Department Chair: <u>PKW</u>	<u>3-21-14</u>	<ul style="list-style-type: none"> <li>•Syllabus (see guidelines for requirements: <a href="http://www.fau.edu/academic/registrar/UUPCinfo/">www.fau.edu/academic/registrar/UUPCinfo/</a>)</li> <li>•Written consent from all departments affected by new course</li> <li>•WAC approval (if necessary)</li> <li>•General Education approval (if necessary)</li> </ul>
College Curriculum Chair: <u>J E K</u>	<u>4/16/14</u>	
College Dean: <u>J E K</u>	<u>4/17/14</u>	
UUPC Chair: <u>J E K</u>	<u>4/18/14</u>	
Provost: _____	_____	

Email this form and syllabus to [mjenning@fau.edu](mailto: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.

Undergrad. Dean: Sam E. Smith 4/22/14  
 UFS President: \_\_\_\_\_