

University of Connecticut  
College of Liberal Arts and Sciences  
Committee on Curricula and Courses

## **Proposal to Add a New Undergraduate Course**

1. Date: 4/12/2013
2. Department requesting this course: Molecular and Cell Biology
3. Semester and year in which course will be first offered: Spring 2014

### **Final catalog Listing** (see Note A):

#### **3413. Concepts of Genetic Analysis**

Four credits. Two class periods and 3-hour laboratory. Prerequisite: MCB 2410 or MCB 2400.

Survey of genetic theory and applications of genetic analysis to model organisms including animals, plants, and microbes. A fee of \$50 is charged for this course.

### **Items included in catalog Listing:**

#### **Obligatory Items**

1. Standard abbreviation for Department or Program (see Note O): MCB
2. Course Number (see Note B): 3413  
If using a specific number (e.g. "254" instead of "2XX"), have you checked with the Registrar that this number is available for use? \_\_\_\_  
Yes \_\_\_\_ No \_\_\_\_
3. Course Title: Concepts of Genetic Analysis
4. Semester offered (see Note C): Spring
5. Number of Credits (see Note D): 4  
6. Course description: Four credits. Two class periods and 3-hour laboratory. Prerequisite: MCB 2410 or MCB 2400.

Survey of genetic theory and applications of genetic analysis to model organisms including animals, plants, and microbes. A fee of \$50 is charged for this course.

#### **Optional Items**

7. Number of Class Periods, if not standard (see Note E):
8. Prerequisites, if applicable (see Note F): MCB 2400 or 2410
14. Open to Sophomores (see Note U):

### **Justification**

1. Reasons for adding this course: MCB 213/2413 has been a basic genetics course for many years. MCB began teaching 2410 and 2400 a number of years ago and those courses have been evolving in a different direction than 2413. We are now revising the curriculum so that MCB 2400 will be targeted at non-MCB majors interested in Human Genetics, MCB 2410 will be targeted at MCB majors, and MCB 2413 will become MCB 3413 as a follow up courses to 2410.

2. Academic Merit (see Note L): MCB 2410 and MCB 2413 both cover principles of genetics, while MCB 2413 also offers advanced genetic concepts for MCB majors and a laboratory. The proposed change would make MCB 3413 a follow up to MCB 2413 or 2400 in order to explore more advanced topics in model genetic systems.

3. Overlapping Courses (see Note M): none

4. Number of Students Expected: 50

5. Number and Size of Section: 1 section

6. Effects on Other Departments (see Note N): Many other departments require either 2413 or 2410 for their majors. Those departments will be consulted on the change so they can change their majors accordingly.

7. Effects on Regional Campuses: none

8. Staffing (see Note P):

9. Dates approved by (see Note Q):

Department Curriculum Committee: April 10, 2013

Department Faculty: May 10, 2013

10. Name, Phone Number, and e-mail address of principal contact person: Ping Zhang – 486-5421 – ping.zhang@uconn.edu