

NEW COURSE PROPOSAL

Courses must be submitted by October 15, 2012, and finalized by the end of that fall semester for the next catalog production.

Use YELLOWED areas to enter data.

DATE (*Change if modified and redate file with current date*) **10/15/12; REV 10.31.12**

PROGRAM AREA(S) **BIOL**

1. Course Information. *[Follow accepted catalog format.]*

Prefix(es) (Add additional prefixes if cross-listed) **and Course No. BIOL 590**

Title: SPECIAL TOPICS IN BIOTECHNOLOGY Units: 3

X Prerequisites Graduate standing and Consent of Instructor

Corequisites

X Consent of Instructor Required for Enrollment

Catalog Description (Do not use any symbols): **Covers special and emerging topics in biotechnology, based on new scientific developments in the field, current issues, and applications. Coursework may include analysis of contemporary literature and related data, guest speakers from local biotechnology companies or laboratories, and student research projects. Repeatable by topic up to 6 units.**

Grading Scheme:

X A-F Grades

Credit/No Credit

Optional (Student Choice)

Repeatability:

X Repeatable for a maximum of 6 units

Total Completions Allowed 2

Multiple Enrollment in Same Semester

Course Level Information:

Undergraduate

Post-Baccalaureate/Credential

X Graduate

Mode of Instruction/Components (*Hours per Unit are defaulted.*)

	Units	Hours per unit	Benchmark Enrollment	Graded Component	CS & HEGIS # (Filled in by the Dean)
Lecture	3	1	24	X	
Seminar		1			
Laboratory		3			
Activity		2			
Field Studies					
Indep Study					
Other Blank					

Leave the following hours per week areas blank. The hours per week will be filled out for you.

3 hours **lecture** per week

hours blank per week

Is this course always delivered online? Yes ___ No X

2. Course Attributes:

General Education Categories: All courses with GE category notations (including deletions) must be submitted to the GE website: <http://summit.csuci.edu/geapproval>. Upon completion, the GE Committee will forward your documents to the Curriculum Committee for further processing.

A (English Language, Communication, Critical Thinking)

A-1 Oral Communication

A-2 English Writing

A-3 Critical Thinking

B (Mathematics, Sciences & Technology)

B-1 Physical Sciences

B-2 Life Sciences – Biology

B-3 Mathematics – Mathematics and Applications

B-4 Computers and Information Technology

C (Fine Arts, Literature, Languages & Cultures)

C-1 Art

C-2 Literature Courses

C-3a Language

C-3b Multicultural

D (Social Perspectives)

E (Human Psychological and Physiological Perspectives)

UDIGE/INTD Interdisciplinary

Meets University Writing Requirement

Meets University Language Requirement

American Institutions, Title V Section 40404: Government US Constitution US History

Refer to website, Exec Order 405, for more information: <http://senate.csuci.edu/comm/curriculum/resources.htm>

Service Learning Course (Approval from the Center for Community Engagement must be received before you can request this course attribute).

3. Justification and Requirements for the Course. (Make a brief statement to justify the need for the course)

A. Justification: BIOL 590 is an elective for students in the M.S. Biotechnology program. This course will cover special and emerging topics in various aspects of biotechnology and will not be offered on a regular basis. The field of biotechnology makes rapid advances and a special topics course format provides the flexibility needed for the Biology program to offer courses in emerging fields and take advantage of local biotechnology expertise without disrupting its core program.

B. Degree Requirement:

Requirement for the Major/Minor

X Elective for the Major/Minor

Free Elective

Note: Submit Program Modification if this course changes your program.

4. Student Learning Outcomes. List in numerical order. Please refer to the Curriculum Committee's "Learning Outcomes" guideline for measurable outcomes that reflect elements of Bloom's Taxonomy:

<http://senate.csuci.edu/comm/curriculum/resources.htm>. The committee recommends 4 to 8 student learning outcomes, unless governed by an external agency (e.g., Nursing).

Upon completion of the course, the student will be able to:

- Identify new developments in biotechnology.
- Reflect on scientific, social, and economic impacts of emerging technology.
- Identify topic-appropriate research materials.
- Synthesize information from a variety of sources.
- Report on chosen topic in written and oral form.

5. Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]

New developments and current issues in biotechnology and applications, such as personal genomics, targeted pharmaceuticals, gene therapy, genetically modified organisms, phylogenomics and barcoding, etc. Students will research and analyze contemporary literature and related data. Research projects and writing assignments are included.

Does this course content overlap with a course offered in your academic program? Yes No X

If YES, what course(s) and provide a justification of the overlap.

Does this course content overlap a course offered in another academic area? Yes No X

If YES, what course(s) and provide a justification of the overlap.

Overlapping courses require Chairs' signatures.

6. Cross-listed Courses (Please note each prefix in item No. 1)

A. List Cross-listed Courses (Signature of Academic Chair(s) of the other academic area(s) is required).

List each cross-listed prefix for the course:

B. Program responsible for staffing: Biology

7. References. [Provide 3 - 5 references]

To be determined by appropriate faculty member upon scheduling.

8. Tenure Track Faculty Qualified to Teach This Course.

Biology faculty

9. Requested Effective Date:

First semester offered: Fall 2013

10. New Resources Requested. Yes No X

If YES, list the resources needed.

A. Computer Needs (data processing, audio visual, broadcasting, other equipment, etc.)

B. Library Needs (streaming media, video hosting, databases, exhibit space, etc.)

C. Facility/Space/Transportation Needs

D. Lab Fee Requested (please refer to Dean's Office for additional processing) **Yes No**

E. Other

11. Will this new course alter any degree, credential, certificate, or minor in your program? Yes X No

If, YES attach a program update or program modification form for all programs affected.

Priority deadline for New Minors and Programs: **October 1, 2012** of preceding year.

Priority deadline for Course Proposals and Modifications: **October 15, 2012**, of preceding year.

Last day to submit forms to be considered during the current academic year: **April 15th.**

Amy Denton

10/15/12

Proposer of Course (Type in name. Signatures will be collected after Curriculum approval)

Date

Approval Sheet

Program/Course:

If your course has a General Education Component or involves Center affiliation, the Center will also sign off during the approval process.

Multiple Chair fields are available for cross-listed courses.

The CI program review process includes a report from the respective department/program on its progress toward accessibility requirement compliance. By signing below, I acknowledge the importance of incorporating accessibility in course design.

Program Chair		
Signature		Date
Program Chair		
Signature		Date
Program Chair		
Signature		Date
General Education Chair		
Signature		Date
Center for International Affairs Director		
Signature		Date
Center for Integrative Studies Director		
Signature		Date
Center for Multicultural Engagement Director		
Signature		Date
Center for Civic Engagement Director		
Signature		Date
Curriculum Chair		
Signature		Date
AVP		
Signature		Date