

NEW COURSE PROPOSAL**Courses must be submitted by November 2, 2009, for priority catalog review.**DATE (*Change if modified and redate file with current date*)

10-26-2010; REV 11.9.10; REV 12.15.10

PROGRAM AREA(S)

BIOLOGY

1. Course Information. *[Follow accepted catalog format.]***Prefix(es)** (Add additional prefixes if cross-listed) and **Course No.** BIOL 605**Title:** BIOTECHNOLOGY ACROSS NATIONAL BOUNDARIES FIELD TRIP **Units:** 1

Prerequisites

Corequisites

x Consent of Instructor Required for Enrollment

Catalog Description (Do not use any symbols): A field trip examining international efforts in biotechnological innovation, education, global commercialization and the impact of biotechnology through on site visits to appropriate locations.**Grading Scheme:**

x A-F Grades

Credit/No Credit

Optional (Student Choice)

Repeatability:

Repeatable for a maximum of units

Total Completions Allowed

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	1	1	30	X	
Seminar		1			
Laboratory		3			
Activity		2			
Field Studies		1			
Indep Study					
Other Blank					

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

1 hours field studies per week

Variable for field trip hours blank per week

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: This will provide students in the MS in Biotechnology and Bioinformatics program an opportunity to make site visits to appropriate locations to experience the international aspects of biotechnology.

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. Learning Objectives. (List in numerical order. You may wish to use the following resource in utilizing measurable verbs: <http://senate.csuci.edu/comm/curriculum/resources.htm>)

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

Describe the international efforts in biotechnological innovation

Identify and analyze inter- and cross-cultural issues in business operations

Collaborate on a global biotechnological field trip

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

A site visit to an appropriate location will be organized for students. The specific content of the field trip will be variable pending on the specific location. In general, students will pay site visits to international biotechnology companies and educational institutions offering biotechnology-related academic programs.

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]

BioEvolution: How Biotechnology is Changing Our World by Michael Fumento Publisher: Encounter Books; 1 edition, 2003, ISBN-10: 1893554759

Starved for Science: How Biotechnology Is Being Kept Out of Africa by Robert Paarlberg (Author), Norman Borlaug (Foreword), Jimmy Carter (Foreword) Publisher: Harvard University Press; 1 edition, 2009, ISBN-10: 0674033477

Enough: Why the World's Poorest Starve in an Age of Plenty by Roger Thurow and Scott Kilman, Publisher: PublicAffairs, 2009, ISBN-10: 1586485113

Bioscience Entrepreneurship In Asia: Creating Value with Biology by Paul S. Teng, Publisher: World Scientific Publishing Company, 2008, ISBN-10: 981270020X

The Politics of Biotechnology in North America and Europe: Policy Networks, Institutions and Internationalization Studies in Public Policy) by Yric Montpetit, Publisher: Lexington Books; 1 edition, 2006, ISBN-10: 0739112481

8. Tenure Track Faculty Qualified to Teach This Course.

Biology faculty

9. Requested Effective Date:

First semester offered: S2012

10. New Resources Requested. Yes ☐ No ☒

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 ☐ No ☒

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

Priority deadline for New Minors and Programs: **October 5, 2009** of preceding year.

Priority deadline for Course Proposals and Modifications: **November 2, 2009**, of preceding year.

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

Ching-Hua Wang

10-26-2010

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.

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
Dean of Faculty		
	Signature	Date