

**NEW COURSE PROPOSAL**

**Courses must be submitted by October 15, 2013, 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*)

10/13/13; REV 11.12.13

PROGRAM AREA(S)

BIOLOGY

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

**Prefix(es)** (Add additional prefixes if cross-listed) and **Course No.** BIOL597

**Title:** DIRECTED STUDY **Units:** 1

Prerequisites

Corequisites

☒ Consent of Instructor Required for Enrollment- Consent of instructor and program approval required

**Catalog Description** (Do not use any symbols):

Reading and library research and/or dry/wet lab experimentation that may involve service learning/independent research in selected areas of biology conducted under the direction of a faculty member. Graded credit/No credit.

**Grading Scheme:**

☐ 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

☒ Graduate

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

	Units	Hours per Unit	Default Section Size	Graded Component	CS & HEGIS # (Filled in by the Provost's Office)
Lecture					
Seminar					
Laboratory	1	3	10	x	
Activity					
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 LABORATORY per week

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 (Graduation Writing Assessment Requirement)**

**Meets University Language Requirement**

☐ **American Institutions, Title V Section 40404:** ☐ Government ☐ US Constitution ☐ US History  
Regarding 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).

☐ **Online Course** (Answer YES if the course is ALWAYS delivered online).

☐ **Lab Fee Request** – Lab fee requests should be directed to the Student Fee Committee.

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

A. Justification: This will be an elective for students in the MS Biotechnology degree program. Independent research will be conducted under the mentorship of a faculty advisor. The topic will be chosen by the student in consultation with the faculty advisor. The research project may involve library work or experimentation in the lab.

B. Degree Requirement:

☐ Requirement for the Major/Minor  
☒ 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 topic appropriate research materials
- Synthesize information from a variety of sources
- Design experiments and conduct dry and/or wet lab work if the project requires it
- 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]

Course content will vary by student and the faculty who teach this course. ☐

Does this course content overlap with a course offered in your academic program? **Yes** ☐ **No** ☒

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** ☒

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) Beyond three disciplines consult with the Curriculum Committee.

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: ☐

**7. References.** *[Provide 3 - 5 references]*

References will vary depending on topic chosen by student and their faculty mentor.

**8. Tenure Track Faculty Qualified to Teach This Course.**

Biology faculty

**9. Requested Effective Date:**

First semester offered: **Spring, 2014** (corresponding to the winter term of the MS Biotech degree program)

**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 Yes ☐ No ☒ (Lab fee requests should be directed to the Student Fee Committee)

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 1, 2013** of preceding year.

Priority deadline for Course Proposals and Modifications: **October 15, 2013**, of preceding year.

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

Nitika Parmar

10/13/13

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

Date

# Approval Sheet

**Program/Course:** [REDACTED]

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