California State University Channel Islands
NEW COURSE PROPOSAL
Courses must be submitted by October 15, 2014, 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)*) 10/26/14 REV 01.15.15
PROGRAM AREA(S) BIOLOGY

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1. **Course Information.** *[Follow accepted catalog format.]*
   Prefix(es) (Add additional prefixes if cross-listed) **and Course No. BIOL 474**
   Title: ADVANCED TOPICS IN AGRICULTURAL PRODUCTION SYSTEMS   Units: 3
   Prerequisites
   Corequisites
   Consent of Instructor Required for Enrollment
   Catalog Description (Do not use any symbols): Covers new developments in agricultural production systems. Repeatable by topic.

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:

X Undergraduate
X 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	3	1	24		
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.
  hours lecture 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
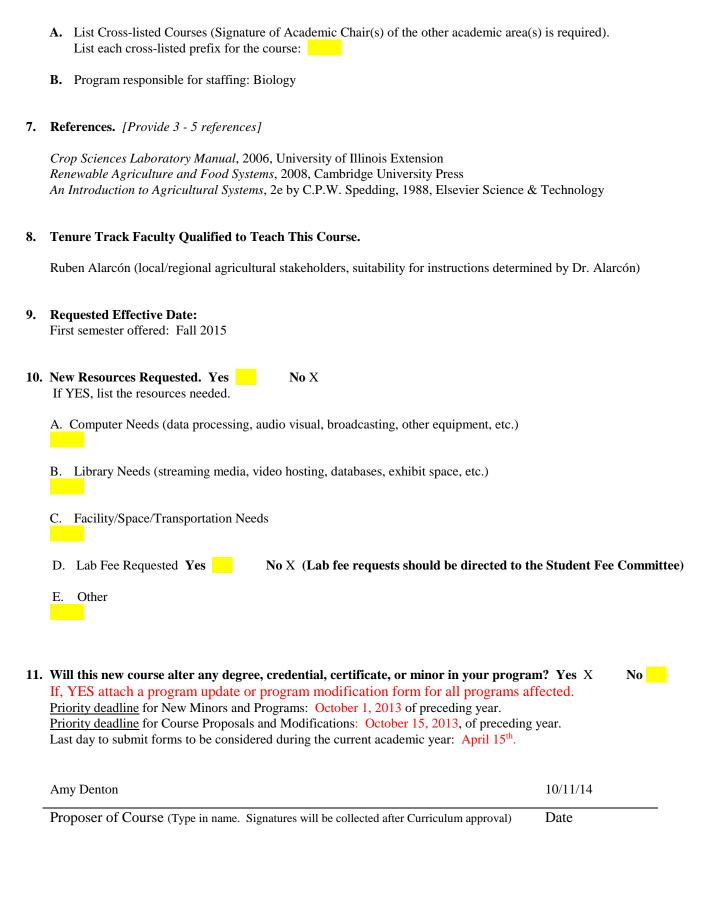   B-2 Life Sciences – Biology
     B-3 Mathematics – Mathematics and Applications
     B-4 Computers and Information Technology
   C (Fine Arts, Literature, Languages & Cultures)

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: BIOL 474 is an elective for students in the Pest Control Adviser certificate program. This course will cover special and emerging topics in all aspects of crop and agricultural production systems and will be offered on a regular basis although specific topics will change. Agricultural production systems are varied and change rapidly; a special topics course format provides the flexibility needed for the Biology program to offer courses in emerging technologies and take advantage of local agricultural expertise without disrupting its core program.

B. Degree Requirement: Requirement for the Major/Minor   **Note: Submit Program Modification if**
                          Elective for the Major/Minor   **this course changes your program**.
                       X Free Elective

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 agricultural production systems.
• Reflect on scientific, social, and economic impacts of emerging technology and practices.
• 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 agricultural production systems, including tillage practices, nutrient management, pest control, water management, horticulture, sustainable systems, etc.

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) 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: Biology

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

   Crop Sciences Laboratory Manual, 2006, University of Illinois Extension
   Renewable Agriculture and Food Systems, 2008, Cambridge University Press
   An Introduction to Agricultural Systems, 2e by C.P.W. Spedding, 1988, Elsevier Science & Technology

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

   Ruben Alarcón (local/regional agricultural stakeholders, suitability for instructions determined by Dr. Alarcón)

9. **Requested Effective Date:**
   First semester offered: Fall 2015

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 **Yes**   **No** X **(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** 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, 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 15th.

Amy Denton   10/11/14

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

Approval Sheet

Program/Course: BIOL 474

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