

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS
COURSE MODIFICATION PROPOSAL
Courses must be submitted by November 2, 2009,
to make the next catalog (2010--2011) production

DATE (CHANGE DATE EACH TIME REVISED): 9/29/2009 REV 11.16.09

PROGRAM AREA(S): CHEMISTRY

Directions: All of sections of this form must be completed for course modifications. All documents are stand alone sources of course information.

1. Course Information.

[Follow accepted catalog format.] (Add additional prefixes if cross-listed)

OLD

Prefix CHEM Course# 499 Title
 CHEMISTRY CAPSTONE COLLOQUIUM Units (2)
 hours lecture per week
 2 hours seminar per week

Prerequisites: CHEM 305, CHEM 371 and CHEM 492 or 494 (or concurrent enrollment)

Consent of Instructor Required for Enrollment

Corequisites:

Catalog Description (Do not use any symbols):

Oral and written presentation of work completed or work-in progress projects of CHEM 492 or 494 courses. Graded credit/no-credit.

Graded

CR/NC

Repeatable

for up to units

Total

Completions

Multiple

Enrollment in

same semester

General Education

Categories

Lab Fee Requested

A - F

Course Level:

Undergraduate
 Post-bac/Credential
 Graduate

Optional
 (Student's
 choice)

NEW

Prefix CHEM Course# 499 Title
 CHEMISTRY CAPSTONE Units (2)
 hours lecture per week
 2 hours seminar per week

Prerequisites: CHEM 305, CHEM 371

Consent of Instructor Required for Enrollment

Corequisites:

Catalog Description (Do not use any symbols):

Students in their final academic year learn to communicate scientific information to other scientists. Students present scientific information from work completed or work-in progress of their independent research (CHEM 494), internship (CHEM 492), or extensive literature research.

Graded

CR/NC

A - F

Repeatable for

up to units

Total

Completions

Multiple

Enrollment in same

semester

General Education

Categories

Lab Fee Requested

Course Level:

XX Undergraduate
 Post-bac/Credential
 Graduate

Optional
 (Student's
 choice)

2. Mode of Instruction (Hours per Unit are defaulted)

Hegis Code(s) _____

(Provided by the Dean)

Existing

Proposed

	Units	Hours Per Unit	Benchmark Enrollment	Graded		Units	Hours Per Unit	Benchmark Enrollment	Graded	CS No. (filled out by Dean)
Lecture		1			Lecture		1			
Seminar	2	1	24		Seminar	2	1	24	x	
Lab		3			Lab		3			
Activity		2			Activity		2			
Field Studies					Field Studies					
Indep Study					Indep Study					
Other blank					Other blank					

3. 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).

4. Justification and Requirements for the Course. *[Make a brief statement to justify the need for the course]*

OLD

This course is typically taken by students in the Chemistry major in their last semester of study. This course will be an upper-division requirement for students majoring in chemistry.

- Requirement for the Major/Minor
- Elective for the Major/Minor
- Free Elective

NEW

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- Requirement for the Major/Minor
- Elective for the Major/Minor
- Free Elective

Submit Program Modification if this course changes your program.

5. Learning Objectives. (List in numerical order. You may wish to visit resource information at the following website: <http://senate.csuci.edu/comm/curriculum/resources.htm>)

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

OLD

Students who successfully complete this course will be able to:

- Evaluate a chemical problem and determine how molecular shape, electronic structure, thermodynamics, kinetics, and intermolecular interactions are involved in the behavior of the system.
- Present and discuss results of scientific work in a professional, well-organized and substantive way.
- Communicate chemical information to both a colloquial and specialized audience.

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

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- Evaluate a chemical problem and determine how molecular shape, electronic structure, thermodynamics, kinetics, and intermolecular interactions are involved in the behavior of the system.
- Present and discuss results of scientific work in a professional, well-organized and substantive way.
- Communicate chemical information to both a colloquial and specialized audience.

- Demonstrate the ability to write to the scientific audience using the accepted conventions of the day.
- Evaluate and accurately reference background information from previous studies in the literature.
- Discuss and critique other students' scientific work in a constructive way.
- Interpret, discuss, and evaluate a primary literature article.

- Demonstrate the ability to write to the scientific audience using the accepted conventions of the day.
- Evaluate and accurately reference background information from previous studies in the literature.
- Discuss and critique other students' scientific work in a constructive way.
- Interpret, discuss, and evaluate a primary literature article.

6. Course Content in Outline Form. (Be as brief as possible, but use as much space as necessary)

OLD

Organizing and Writing a Paper
 Outlining and organizing results
 Structure and conventions
 Poster Presentation
 Quality Figures
 Presenting a Poster
 Peer and Faculty Review
 Peer Review of papers
 Rewriting of papers
 Presentation
 Oral Presentation of Work
 Final Paper
 Finishing touches
 Final review
 General Audience Presentation

NEW

Organizing and Writing a Paper
 Outlining and organizing results
 Structure and conventions
 Poster Presentation
 Quality Figures
 Presenting a Poster
 Peer and Faculty Review
 Peer Review of papers
 Rewriting of papers
 Presentation
 Oral Presentation of Work
 Final Paper
 Finishing touches
 Final review
 General Audience Presentation

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.

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

- 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:
- Program responsible for staffing:

8. References. [Provide 3-5 references]

OLD

Dodd, J.S. (ed.) *The ACS Style Guide*, American Chemical Society, 2nd Ed., 1997
 Huth, E.J. *Scientific Style and Format*, Cambridge University Press, 6th Ed., 1994
 Beall, H.; and Trimber, J. *A Short Guide to Writing about Chemistry*, Longman, 2nd Ed., 2000

NEW

Dodd, J.S. (ed.) *The ACS Style Guide*, American Chemical Society, 2nd Ed., 1997
 Huth, E.J. *Scientific Style and Format*, Cambridge University Press, 6th Ed., 1994
 Beall, H.; and Trimber, J. *A Short Guide to Writing about Chemistry*, Longman, 2nd Ed., 2000

9. Tenure Track Faculty qualified to teach this course.

10. Requested Effective Date or First Semester offered: **Spring 2011**

11. New Resource 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 (Refer to the Dean's Office for additional processing)

E. Other.

12. Indicate Changes and Justification for Each. [Check all that apply and follow with justification. Be as brief as possible but, use as much space as necessary.]

<input type="checkbox"/> Course title	<input type="checkbox"/> Course Content
<input type="checkbox"/> Prefix/suffix	<input type="checkbox"/> Course Learning Objectives
<input type="checkbox"/> Course number	<input type="checkbox"/> References
<input type="checkbox"/> Units	<input type="checkbox"/> GE
<input type="checkbox"/> Staffing formula and enrollment limits	<input checked="" type="checkbox"/> Other Grading
<input checked="" type="checkbox"/> Prerequisites/Corequisites	<input type="checkbox"/> Reactivate Course
<input checked="" type="checkbox"/> Catalog description	
<input type="checkbox"/> Mode of Instruction	

Justification: We no longer require CHEM 492 or CHEM 494, although almost all of our students take these courses. The prerequisites and course description were re-written to reflect this. This course should also probably be graded with a letter grade as students submit varying degrees of work.

13. Will this course modification 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**.

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

Simone Aloisio

9/29/2009

Proposer(s) of Course Modification

Date

Type in name. Signatures will be collected after Curriculum approval.

Approval Sheet

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		
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Signature

Date

Program Chair		
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Signature

Date

Program Chair		
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Signature

Date

General Education Chair		
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Signature

Date

Center for Intl Affairs Director		
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Signature

Date

Center for Integrative Studies Director		
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Signature

Date

Center for Multicultural Engagement Director		
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Signature

Date

Center for Civic Engagement and Service Learning Director		
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Signature

Date

Curriculum Chair		
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Signature

Date

Dean of Faculty		
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Signature

Date