

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

COURSE MODIFICATION PROPOSAL

Courses must be submitted by November 5, 2007, to make the next catalog production

DATE (CHANGE DATE IF REVISED): 11.27.07 REV 12.18.07

PROGRAM AREA(S): CHEMISTRY

1. Catalog Description of the Course. *[Follow accepted catalog format.]*
(If Cross-listed please submit prefixes for each discipline being modified)

<p align="center">OLD</p> <p>Prefix CHEM Course# 499 Title Chemistry Capstone Colloquium Units (1) hours lecture per week 1 hours seminar per week</p> <p><input type="checkbox"/> Prerequisites: CHEM 305, CHEM 371 and CHEM 492 or 494 (or concurrent enrollment) <input type="checkbox"/> Corequisites: 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.</p> <p><input type="checkbox"/> Gen Ed Categories <input type="checkbox"/> Lab Fee Required</p> <p align="center">Graded <input checked="" type="checkbox"/> CR/NC <input type="checkbox"/> Repeatable for up to _____ units <input type="checkbox"/> A - F <input type="checkbox"/> Multiple <input type="checkbox"/> Optional Enrollment in (Student's same semester choice)</p> <p><input type="checkbox"/> American Institutions, Title V Section 40404: <input type="checkbox"/>Government <input type="checkbox"/>US Constitution <input type="checkbox"/>US History (Refer to EO 405, for more information at: http://senate.csuci.edu/comm/curriculum/resources.htm) <input type="checkbox"/> Service Learning Course</p>	<p align="center">NEW</p> <p>Prefix CHEM Course# 499 Title Chemistry Capstone Colloquium Units (2) hours lecture per week 2 hours seminar per week</p> <p><input type="checkbox"/> Prerequisites: CHEM 305, CHEM 371 and CHEM 492 or 494 (or concurrent enrollment) <input type="checkbox"/> Corequisites: Description: Oral and written presentation of work completed or work-in progress projects of CHEM 492 or 494 courses.</p> <p><input type="checkbox"/> Gen Ed Categories <input type="checkbox"/> Lab Fee Required</p> <p align="center">Graded <input checked="" type="checkbox"/> CR/NC <input type="checkbox"/> Repeatable for up to _____ units <input type="checkbox"/> A - F <input type="checkbox"/> Multiple <input type="checkbox"/> Optional Enrollment in same (Student's semester choice)</p> <p><input type="checkbox"/> US History (Refer to EO 405, for more information at: http://senate.csuci.edu/comm/curriculum/resources.htm)</p>
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2. Mode of instruction (Hours per Unit are set for you)

Hegis Code(s) _____

<u>Existing</u>	<u>Proposed</u>																																																																																
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3. Course Content in Outline Form if Being Changed. *[Be as brief as possible, but use as much space as necessary]*

<p>OLD</p> <p>Organizing and writing a paper - outlining and organizing results - structure and conventions Poster presentations - quality figures - presenting a poster Peer and faculty review - peer review of papers - rewriting of papers</p>	<p>NEW</p> <p>Organizing and writing a paper - outlining and organizing results - structure and conventions Poster presentations - quality figures - presenting a poster Peer and faculty review - peer review of papers - rewriting of papers</p>
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Presentation
- oral presentation of work
Final paper
- finishing touches
- final review
General audience presentation

Presentation
- oral presentation of work
Final paper
- finishing touches
- final review
General audience presentation

4. Justification and Learning Objectives for the Course. (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) *[Use as much space as necessary]*

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.

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.
- 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.

NEW

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.

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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.

5. References. *[Provide 3-5 references on which this course is based and/or support it.]*

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

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Davis, M. *Scientific Papers and Presentations*, Elsevier, 2nd Ed., 2005
Alley, M. *The Craft of Scientific Writing*, Springer 1996

6. 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.]*

- Course title
- Prefix/suffix
- Course number
- Units
- Staffing formula and enrollment limits
- Prerequisites/corequisites
- Catalog description
- Course content

- References
- GE
- Other

Justification: This class has been offered on previous occasions in the 1-unit format. However, the 1-unit format is unable to satisfactorily provide enough in-class and contact time given the large breadth and depth of material covered in this course. Inevitably, some of the material must be treated in an unsatisfactory cursory manner to complete all of the course outcomes. Students typically need extensive interactions with the faculty member in all aspects of this class and 1 contact hour has not provided enough opportunity for lengthy interactions.

7. **General Education Categories:** All courses with GE categories notations (including deletions) must be processed at 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)

UD Interdisciplinary

8. **New Resources Required.** YES NO

If YES, list the resources needed and obtain signatures from the appropriate programs/units on the consultation sheet below.

- a. Computer (data processing), audio visual, broadcasting needs, other equipment)
- b. Library needs
- c. Facility/space needs

9. **Will this course modification alter any degree, credential, certificate, or minor in your program?** YES NO

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

10. **Effective Date (Semester and Year – all modifications submitted prior to November 5th will be effective in the Fall 2008 catalog):** Fall 2008

Simon J Garrett/Simone Alisio
Proposer of Course Modification

10/24/07
Date

Approvals

Program/Course:

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

Service Learning Center Director		
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Signature

Date

Curriculum Chair		
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Signature

Date

Dean of Faculty		
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Signature

Date