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)

   OLD
   Prefix CHEM Course# 499 Title Chemistry Capstone Colloquium Units (1)
   hours lecture per week
   1 hours seminar per week
   C
   Prerequisites: CHEM 305, CHEM 371 and CHEM 492 or 494 (or concurrent enrollment)
   C
   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.

   NEW
   Prefix CHEM Course# 499 Title Chemistry Capstone Colloquium Units (2)
   hours lecture per week
   2 hours seminar per week
   C
   Prerequisites: CHEM 305, CHEM 371 and CHEM 492 or 494 (or concurrent enrollment)
   C
   Corequisites:
   Description: Oral and written presentation of work completed or work-in-progress projects of CHEM 492 or 494 courses.

   Gen Ed Categories
   CR/NC
   Repeatable for up to
   Lab Fee Required
   Optional (Student’s choice)
   American Institutions, Title V Section 40404:
   Government
   US Constitution
   US History (Refer to EO 405, for more information at: http://senate.csuci.edu/comm/curriculum/resources.htm
   Service Learning Course

2. Mode of instruction (Hours per Unit are set for you)

   Existing
   Lecture Units 1 Hour Per Unit 1 Benchmark Enrollment 24 CS# Units (filled out by Dean)
   Seminar 1
   Laboratory
   Activity
   Field Studies
   Indep Study
   Other blank

   Proposed
   Lecture Units 2 Hour Per Unit 1 Benchmark Enrollment 24 CS# Units (filled out by Dean)
   Seminar 2
   Laboratory
   Activity
   Field Studies
   Indep Study
   Other blank

3. Course Content in Outline Form if Being Changed. [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 presentations
   - quality figures
   - presenting a poster
   Peer and faculty review
   - peer review of papers
   - rewriting of papers

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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.

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

OLD

NEW

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
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 10/24/07
Proposer of Course Modification Date
## Approvals

**Program/Course:**

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<th>Role</th>
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