CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

PROGRAM: BIOLOGICAL AND PHYSICAL SCIENCES

1. Catalog Description of the Course.  [Include the course prefix, number, full title, and units.  Provide a course narrative including prerequisites and corequisites.  If any of the following apply, include in the description:  Repeatability (May be repeated to a maximum of ___ units); time distribution (Lecture ___ hours, laboratory ___ hours); non-traditional grading system (Graded CR/NC, ABC/NC).  Follow accepted catalog format.]

CHEM 100, CHEMISTRY AND SOCIETY (4)
Three hours of lecture and one three-hour lab per week.
An introduction to the basic principles of chemistry and a consideration of the benefits and problems arising from applications of chemistry.  Discussions of foods and food additives, drugs, plastics and other materials of everyday life, fuel sources, the atmosphere, and fresh water. Lab fee required.
GenEd: B1

2. Mode of Instruction.

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<thead>
<tr>
<th>Units</th>
<th>Hours per Unit</th>
<th>Benchmark Enrollment</th>
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<tbody>
<tr>
<td>Lecture</td>
<td>3</td>
<td>1</td>
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<tr>
<td>Seminar</td>
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<tr>
<td>Laboratory</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Activity</td>
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3. 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]

This course presents an introduction to Chemistry and the importance of Chemistry in society and is designed to satisfy the Physical Science and laboratory component requirements in the General Education.

Students who successfully complete this course will be able to:
• Outline the development of the field of chemistry from a historical perspective and how chemistry has impacted society
• Describe the scientific method and how it is used to approach the study of chemicals/ molecules
• Evaluate the relationship between the structures and function of molecules
• Explain the basic chemical principles involved in the properties of materials
• Explain the basic chemical principles involved in observed phenomena
• Perform simple chemical reactions

4. Is this a General Education Course  YES  NO
If Yes, indicate GE category:

<table>
<thead>
<tr>
<th>A (English Language, Communication, Critical Thinking)</th>
<th>B (Mathematics &amp; Sciences)</th>
<th>C (Fine Arts, Literature, Languages &amp; Cultures)</th>
<th>D (Social Perspectives)</th>
<th>E (Human Psychological and Physiological Perspectives)</th>
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<tr>
<td>X</td>
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5. Course Content in Outline Form.  [Be as brief as possible, but use as much space as necessary]

Air Quality and Atmospheric Chemistry
Chemistry of the Ozone Layer
Carbon Dioxide Chemistry and Global Warming
Energy: Chemistry of Fossil Fuels, Solar Energy, and Nuclear Energy
Water Quality

NEWCRSFR 9/30/02
6. **References.** [Provide 3 - 5 references on which this course is based and/or support it.]


7. **List Faculty Qualified to Teach This Course.**

   Dr. Philip Hampton, Dr. Simone Aloisio

8. **Frequency.**
   a. Projected semesters to be offered: Fall **X** Spring ____ Summer ____

9. **New Resources Required.**

   None.

10. **Consultation.**

   Attach consultation sheet from all program areas, Library, and others (if necessary)

11. If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.

    __________Philip Hampton____________________1/8/03_______________________

    Proposer of Course         Date

NEWCRSFR 9/30/02