Master Course Syllabus Outline

Department: Chemistry and Geoscience  Course Prefix/Number: CHEM 1014
Official Course Title: Introductory Applied Chemistry

Master Syllabus Approved by Department on: 5/28/03

I. Catalog Description (50 words; brief synopsis of course content, emphases)

A brief introduction to the basic principles of chemistry with emphasis on applications in our society: energy, pollution and the environment, food, health, and drugs. Designed for non-science majors. Lab fee $10. Course fee $5.

II. Prerequisites?

None.

III. Expanded Course Description (150 words; primary course content, intended student level and role(s) course is to play in the curriculum)

Topics to be covered include an introduction to chemistry, atoms and atomic structure, nuclear chemistry, chemical bonds, chemical names, formulas, and equations, acids and bases, oxidation and reduction, organic chemistry, polymers, biochemistry, food, and household chemicals.

This course is suggested for the student who is interested in learning about the fundamental ideas of chemistry as a laboratory science. This course satisfies core curriculum requirements but is not a prerequisite for any higher chemistry course.

The course consists of three (3) lecture hours per week and three (3) laboratory hours per week for four (4) hours of college credit.

IV. Intended Student Learning Outcomes? Required; knowledge outcomes (what students who successfully complete the course will be expected to know).
Optional; skill outcomes (what students who successfully complete the course will be able to do). Optional; value outcomes (what students who successfully complete the course will value or appreciate).

Knowledge outcomes

Upon completion of this course the student will:
understand the basic concepts of chemistry
understand the role of chemistry in modern society
**Skill outcome**

Upon completion of this course students will:

be able to make more informed chemical choices in everyday living.

**Value outcomes**

Upon completion of this course students will:

be able to appreciate the role of chemistry in everyday life

V. Unless otherwise stipulated in this master syllabus by the department, the following items are subject to faculty discretion as described in each faculty member’s individual course outline/syllabus:

a) Course Requirements? (grading/evaluation procedures; class attendance policy; term papers, projects, field assignments; examinations; class participation, etc.)

<table>
<thead>
<tr>
<th></th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Lecture Exams</td>
<td>50%</td>
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<tr>
<td>Lab</td>
<td>25%</td>
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<tr>
<td>Final Exam</td>
<td>25%</td>
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The student is expected to attend all classes and labs for which he/she is enrolled. A record of class attendance will be kept and the instructor should be consulted regarding any absences. Any make-up exams given will be on a case-by-case basis with the permission of the instructor. There is no make-up for the final exam.

b) Required Text(s)?

**Chemistry for Changing Times** by Hill, current edition.
**Introductory Chemistry Laboratory Manual** by Adams.

c) Bibliography?

Department Head Signature/Date:

__________________________________  _____________/_____/_______
Signature                        Date