[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

The module is organized by paragraphs that discuss introductory concepts, physical measurements, chemical substances, states of matter, chemical reactions and chemistry of the elements.This module represents a step in the evolution of the general chemistry text toward one that reflects the increasing overlap between chemistry and other disciplines. Most importantly, the module discusses exciting and relevant aspects of biological, environmental, and materials science that are usually relegated to the last few chapters, and it provides a format that allows the instructor to tailor the emphasis to the needs of the students.

2. Course Goals and Objectives (Approximately 100 words)

The goal of this module is to address the increasing close relationship among various disciplines and to show the relevance of chemistry to contemporary issues in a pedagogically approachable manner.The objectives of module are to produce a truly integrated text that gives the student even who takes only a single year of chemistry an overview of the most important subdisciplines of chemistry, thus emphasizing unifying concepts. Also, utilize established pedagogical devices to maximize students' ability to learn directly from the text.

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

General Chemistry - Principles, Patterns and Applications/sailor.org

4. Reference

General Chemistry, Darrel D. Ebbing, Steven D. Gammon, Houghton Mifflin company, 2009

5. Course Requirements and Grades

Coursework 30%
Midterm Exam 40%
Final Exam 30 %

6. Course Calendar

Week	Main Content
1	An introduction to Chemistry
2	Atomic Theory and Atomic Structure
3	Chemical Substances
4	Ionic and Covalent Bonding
5	States of Matter
6	Chemical Reactions
7	Chemical Equilibrium
8	Acids and Bases
9	Thermodynamics and Equilibrium
10	Electrochemistry
11	Nuclear Chemistry
12	Chemistry of the Main-Group Elements
13	
14	