A course syllabus is not the same as a course outline. A course syllabus outlines the general requirements for a course. A course outline is the specific document created by the individual faculty member to distribute to a specific course section. This is an “abbreviated” course syllabus because it is only collecting information on the course number, title, description, and learning outcomes. Please submit this completed form electronically to Dean Britton.

PLEASE NOTE: Any changes made to the Course Number, Title, or Catalog Description must go through the regular faculty governance process. This Expedited Process of Approval, which expires in March 2012, only pertains to approval of the Learning Outcomes. Therefore, this is NOT the form to be used to change course numbers, titles, or descriptions. This is NOT the form to use for proposing a new course. (See the Governance website for those types of proposals.)

I. **Course Number and Title:**

   CHE122, Foundations of College Chemistry

II. **Catalog Description:**

   One-semester course presenting chemical principles, specifically designed for students enrolled in a science or engineering curriculum who plan to enroll in a one-year course in college chemistry (CHE 133/134). Lectures provide introduction to general principles, laws of chemical combination, thermochemistry, electrochemistry and chemical equilibrium. Laboratory work illustrates basic principles presented in lectures. (4 credit hours)

   The course involves 3 hours of lecture and 3 hours of laboratory per week. Prerequisite: MAT007 or high school Sequential Math 1 or equivalent; corequisite: MAT111 or permission of Academic Chair.

   Notes:
   1. When CHE122 is not available, CHE100 may be substituted with permission of department.
   2. CHE122 may not be used as a substitute for CHE133.
   3. Neither CHE100 nor CHE122 may be taken after a student has completed CHE133 or its equivalent.
   4. Credit will be given for CHE100 or CHE122 but not both.
   5. It fulfills the SUNY General Education Requirement for Natural Sciences.

III. **Learning Outcomes:**

   This course is intended to prepare students enrolled in a science or engineering curriculum who plan to enroll in College Chemistry (CH 33-34).

   The successful student will demonstrate proficiency in:

   - Understanding Laws of general chemical principles.
   - Writing the name and formula for inorganic compounds.
   - Using chemical equations representing chemical reactions.
   - Comprehending and solving problems involving chemical reactions.
   - Describing electronic configurations and atomic structures.
   - Understanding Chemical bonding and molecular geometry concepts of molecules and ions using Lewis dot structures.

*These statements must appear verbatim in course outlines. However, additional outcomes may be added to individual course outlines at the instructor’s discretion.

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• Comprehending gas-laws, gas law stoichiometry, kinetic molecular theory.
• Solving problems involving stoichiometry under aqueous, non-aqueous and gaseous state.
• Acid-base chemistry.
• Comprehending thermochemistry and chemical equilibrium.
• Performing basic laboratory techniques such as measurements, titration, gravimetric analysis of reactions, spectroscopy, and experiments which illustrate the chemical principles presented in lecture.

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Name of Discipline Lead: Jing-Yi Chin
Discipline Vote:
For __________ Against __________ Abstention __________
Date of Vote: __________
_(Initial and Date)_________ Certification of Vote by AVP of Academic Affairs
_(Initial and Date)_________ Certification of Vote by College Curriculum Chair

*These statements must appear verbatim in course outlines. However, additional outcomes may be added to individual course outlines at the instructor’s discretion.
Revised 1/10