

# General Chemistry II

## Course Outline

The information below was given at the beginning of the course. Please complete this page and bring it to the final exam.

### Goal

The goal of this course is to complete your studies in general chemistry.

### Objectives

An objective is a milestone toward meeting a goal. This course will . . .

1. Present the concepts and principles needed to understand solutions, chemical kinetics, chemical equilibria, acid/base reactions, aqueous reaction chemistry, reaction entropy and free energy, electron transfer reactions, main and transition group elements, and nuclear chemistry;
2. Identify relevant problems that involve the above information;
3. Formulate appropriate solutions to these problems;
4. Show the use computational tools and literature references to solve a selection of the problems; and
5. Illustrate how the above knowledge plays an important role in the world today.

### Outcomes

An outcome is a measurable accomplishment of the work undertaken. At the end of this course, you will . . .

1. Have a basic understanding of the concepts and principles that describe solutions, chemical kinetics, chemical equilibria, acid/base reactions, aqueous reaction chemistry, reaction entropy and free energy, electron transfer reactions, main and transition group elements, and nuclear chemistry;  
\_\_\_\_\_
2. Be able to identify relevant problems that involve the above information;  
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3. Be able to formulate appropriate solutions to these problems;  
\_\_\_\_\_
4. Be aware of how computational tools and literature references are used to solve a selection of the problems; and  
\_\_\_\_\_
5. Understand that this knowledge plays an important role in the world today.

Please indicate on the lines above how well you believe this course has provided its stated outcomes with a scale of 1 (poorly), 2 (less than adequately), 3 (adequately), 4 (more than adequately), 5 (exceptionally). Bring this completed sheet with you to the final exam.