

Temple University  
Department of Chemistry

Introduction to Chemistry I  
(Chemistry C061)

Office hours: M: 9:30-10:30 AM, F: 9:30-10:30 AM, T: 5:15-7:15 PM or by  
appointment.

Phone: 215-283-1498 (3-1498)

E-mail: tjshea@.temple.edu.

**AMBLER CAMPUS**  
Fall, 2005-Evening

Keep this syllabus; it contains important information that you will need to know in order to succeed in this course.

Chemistry C061 is the first semester of the lecture and recitation portions of Introduction to Chemistry. Chemistry C063 is the first semester of Introduction to Chemistry Laboratory. These courses are designed primarily for non-science majors and those planning degrees in allied health or horticulture. Introduction to Chemistry is a core curriculum course; however it is not accepted by medical or dental schools and cannot be used as a prerequisite for Chemistry 121(Organic Chemistry). If you expect to Science and Technology courses in chemistry (100 level or above), you should take the 71-74 sequence (General Chemistry) rather than this course.

A student will not be permitted to enroll in Chemistry 63 unless that student also enrolls in Chemistry 61, or has previously completed Chemistry 61 or its equivalent with a passing grade.

**CLASS MEETINGS:** Lectures: T: 7:15-10:00 PM, Recitation: R: 5:10-6:00 PM;  
Laboratory: R: 6:10-9:00 PM

**TEXTBOOK:** Chemistry 61 (also used in Chemistry 62): J. R. Holum, Fundamentals of General, Organic and Biological Chemistry, 6<sup>th</sup> Ed. Wiley, New York, 1998.

Chemistry 63 (also used in Chemistry 64): J. R. Holum, Laboratory Manual for Fundamentals of General, Organic and Biological Chemistry, 6<sup>th</sup> Ed. Wiley, New York, 1998.

**COURSE GOALS:** This course is designed to be a two semester sequence that will provide fundamental knowledge in general, organic and biological chemistry. It is hoped after completing this sequence, students will be able to examine their world from a chemical perspective, solve basic chemical questions using a calculator and think scientifically.

**DISABILITY SERVICES:** See Disability Resources and Services Information: West Hall 104

**Tutoring:** Ambler Bright Hall 201; Main Campus-Math and Sciences Resources Center-Curtis Hall 17

**GRADING:** Grades will be based on a maximum 1000 point total for both Chemistry 61 and 63. The grade breakdowns are given below

<b><u>Chemistry 61</u></b>	<b><u>Chemistry 63</u></b>
Midterm = 300 pts	3 Quizzes= 300 pts
Rec. Quizzes = 400 pts	Lab.Reports = 600 pts
Final Exam = 300 pts	Performances = 100 pts
Total Maximum = 1000 pts	Total Maximum = 1000 pts

**Absences:** Though attendance is not taken, excessive unexcused absences from any part of Chemistry 61 or 63 can result in a student receiving an F as a final grade. It is the responsibility of the student to make sure that his/her absence is recorded as excused if such is the case.

**Withdrawals:** Students may drop from the course anytime up to and including Monday September 13<sup>th</sup>, the last day to withdraw is Monday November 1. A student who withdraws from Chemistry 61 may or may not withdraw from Chemistry 63. Those who elect to withdraw from Chemistry 63 must check out of laboratory.

**Incompletes:** The grade of I (incomplete) will only be considered in cases where at least 60% of the term's work has already been completed and there is a valid excuse (medical or otherwise) for not completing the missing work. Fear on earning a poor grade is not considered a valid excuse. If you do have a valid excuse, which prevents you from doing all of your work, notify Dr. Shea as soon as possible (phone 215-283-1498). Do not wait until the last minute (when it will be too late for him to help you).

**Electronic Calculators:** Although the types of calculations employed in Chemistry 61 are generally quite simple, you may find that a pocket calculator (properly operated) will improve your accuracy. If you wish to invest in a calculator, it is suggested that you select a model, which can deal with logarithms and scientific notation. Be certain that if you use a calculator, it is kept in good condition, especially for examinations. Calculator failure will not be accepted as an excuse for poor examination performance. The sharing of calculators during exams is prohibited.

## CHEMISTRY 61

### LECTURE

There will be two lecture examinations in Chemistry 61. The first exam will be given on the week of October 25 on Chapters 1-6 while the second exam will be given during finals week on Chapters 7-12(Tuesday December 14). These dates are subject to change. Each exam will count 30% of a student's grade. Exam material will be drawn from the text and lecture, so take good notes!

### RECITATION

The recitation will count as 40% of a student's grade. There will be five (5) recitation quizzes given during the following weeks. Dates are subject to change.

<u>Day of Quiz:</u>	<u>Chapters to be covered:</u>
Sept. 9	1
Sept. 30	2-3
Oct. 14	4-5
Oct. 28	6-7
Nov. 11	8-9

The sum of the four best quizzes will constitute the recitation grade. The lowest score will be dropped. There are no make-up exams or quizzes. Quizzes should be taken in your assigned recitation section.

## CHEMISTRY 63

### LABORATORY GRADING

A student's laboratory grade will be based on the student's performance in laboratory (10%) as well as on the laboratory exercises, that is laboratory reports (60%) and the three lab quizzes given during the semester (30%). These quizzes will be given in laboratory according to the schedule on the next page. A grade of zero will be given for an unexcused absence on a lab quiz. A zero will be given for a laboratory exercise if a student has an unexcused absence for that exercise. The lowest lab score will be dropped. No laboratory sheets will be accepted unless submitted to the instructor at the end of one week after the laboratory period when the work is done. If it is one week late, 20% will be deducted. No credit will be given beyond one week. The instructor must sign laboratory sheets before leaving the lab for the day. No unsigned work will be accepted or graded.

**CALENDAR-CHEM 61-63-FALL 2004-AMBLER-EVENING**

<b><u>WEEK:</u></b>	<b><u>LECTURE</u></b>	<b><u>LABORATORY-63</u></b>
Aug 30	Ch 1-Goals and Methods	Check-in; Basic Techniques
Sept 6	Ch 2- Matter and Energy	Exp 1-Metric Quantities
Sept 13	Ch 3- The Atomic Theory	Exp 2-Density
Sept 20	Ch 3 cont; Ch 4 Chemical Bonds	Exp 3-Matter
Sept 27	Ch 4 cont; Ch 5 Stoichiometry	Exp 5,6-Chemical Change
Oct 4	Ch 5 cont; Ch 6- The Kinetic Theory	Quiz 1 (1-3,5,6)
Oct 11	Ch 6 cont; Ch 7-Solutions	Exp 11- Mass Relations
Oct 18	Ch 7 cont; Ch 8- Acids, Bases and Salts	Exp 16-Charles Law
Oct 25	Ch 8 cont; Exam Ch 1-6	Exp 18,19-Surface Tension, Solubility
Nov 1	Ch 8 cont; Ch 9- Acid-Base Equilibrium	Exp 23,24-Collodial Dispersions
Nov 8	Ch 9-Acid-Base Equilibrium- Ch 10 Radioactivity	Exp 26- Ionic Reactions- Quiz 2 (11,16,18,19)
Nov 15	Ch 10 cont Ch 11-Saturated Hydrocarbons	Exp 27-Solubility
Nov 22	No Lecture- Thanksgiving	Make up lab (ON TUESDAY)
Nov 29	Ch 11 cont; Ch 12- Unsaturated Hydrocarbons	Exp 41- Organic Chemistry Check-out; Quiz 3 ( 23,24,26)
Dec 6	Ch 12- Unsaturated Hydrocarbons	