# CHEM 1341 – General Chemistry I

**Fall 2016**

**Instructor:** Dr. John Palasota  
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**Phone:** (713) 525-6918  
**Office Hours:** M 11:00 AM-12:00 PM, Tu 2:00 PM-3:00 PM, W 10:00 AM-3:00 PM

## Tentative Course Schedule:

<table>
<thead>
<tr>
<th>Week of</th>
<th>Lecture Topics</th>
<th>Reading</th>
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</table>
| Aug 22  | Introduction and Overview of the Course  
Matter and Energy | Syllabus  
Chapter 1 |
| Aug 29  | Matter and Energy (cont.) | Chapter 1 |
| Sep 5   | Atoms, Ions, and Molecules | Chapter 2 |
| Sep 12  | Atomic Structure | Chapter 3 |
| Sep 19  | Chemical Bonding | Chapter 4 |
| Sep 22  | **Sep 22: Unit 1 Exam (Chapters 1-3)** | |
| Sep 26  | Chemical Bonding (cont.)  
Bonding Theories | Chapter 4  
Chapter 5 |
| Oct 3   | Bonding Theories (cont.) | Chapter 5 |
| Oct 10  | Oct 11: Fall Break  
**Oct 13: Unit 2 Exam (Chapters 4-5)** | |
| Oct 17  | Intermolecular Forces | Chapter 6 |
| Oct 24  | Stoichiometry | Chapter 7 |
| Oct 31  | Stoichiometry (cont.)  
Aqueous Solutions | Chapter 7  
Chapter 8 |
| Nov 7   | Aqueous Solutions (cont.)  
**Nov 10: Unit 3 Exam (Chapters 6-7)** | Chapter 8 |
| Nov 14  | Thermochemistry | Chapter 9 |
| Nov 21  | Thermochemistry (cont.)  
Nov 24: Thanksgiving Break | Chapter 9 |
| Nov 28  | **Nov 29: Unit 4 Exam (Chapters 8-9)**  
Review for Final Exam | |
| Dec 13  | **ACS Final Exam (11:00 AM)** | |

**Section D (1084):** Lecture TuTh 11:00 AM-12:15 PM, Robertson 213  
Recitation M 1:10 PM-2:00 PM, Robertson 213

**Co-Requisite:** CHEM 1141

**Course Materials:**

- Scientific calculator capable of logarithmic and exponential functions.
- Class notes and other handouts from Blackboard.
Course Description: General Chemistry I is the first of a two-semester sequence of courses designed for science majors. Students are assumed to have knowledge of basic algebra techniques. Although the course does not assume any prior knowledge of chemistry, students who have not had high school chemistry will find there is a large amount of material that must be mastered quickly.

Course Etiquette: Attendance at all lecture and recitation sessions is essential as the material cannot be mastered without discussion and practice. Please silence or turn off cell phones as their use and the use of other electronic devices for personal business is not permitted during the lecture and recitation. However, if you have an emergency and need to use an electronic device, please step outside of the class to attend to it. You are required to check your Blackboard account and UST email daily for any important announcements or information pertaining to the class.

Learning Outcomes: It is essential that students (1) gain factual knowledge and (2) learn the fundamental principles, generalizations, and theories of chemistry. It is important that students (1) learn to apply course material, (2) learn how to find and use resources for answering questions or solving problems, and (3) acquire an interest in learning more by asking questions and seeking answers.

Reading: The ideas and models that chemists use to explain nature often must be seen repeatedly before they are understood. Therefore, the appropriate section in the text should be read before coming to class so that what we discuss can build on and clarify the material. You should skim the chapter, look at the examples, read the chapter more slowly, and work through and understand the examples in the chapter.

Grading Plan: The percent contribution of each type of assignment to the final grade is shown below. A description of each category follows.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Contribution</th>
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</thead>
<tbody>
<tr>
<td>Electronic Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Unit 1 Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Unit 2 Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Unit 3 Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Unit 4 Exam – optional, can replace lowest unit exam grade</td>
<td>20%</td>
</tr>
<tr>
<td>ACS Final Exam</td>
<td>20%</td>
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</tbody>
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Final letter grades will be determined by calculating the percentage points earned compared to the total number of points possible and grades assigned on the following scale.

- A, A–: 100-90
- B+, B, B–: 89-80
- C+, C, C–: 79-70
- D+, D: 69-60
- F: Below 60

Electronic Homework: Each student will create a SmartWork account and self-enroll by following the “first time user” instructions at http://smartwork.wwnton.com. You will need a valid email address, the enrollment key for the course (CHEMAT10437), and a registration code from W. W. Norton which allows you to access the electronic homework after your free two-week trial period expires. For more information about SmartWork, including FAQ’s and links to technical support, please visit
http://www.wworton.com/smartwork. It is essential that the homework be completed as the topics are covered in the lecture as the mathematical skills and chemical concepts cannot be mastered without repeated practice.

**Unit Exams:** Four unit exams will be given during regular class sessions. Your three best unit exam grades will be used to determine your unit exam average. The format of these exams will be multiple choice, short answer, and/or problem solving questions. All exams must be taken at the scheduled time. If you will miss an exam due to an emergency or for a University-sponsored event, please notify me prior to the scheduled exam time.

**ACS Final Exam:** The final exam is the American Chemical Society (ACS) first-term exam for General Chemistry. The date and time of the exam will be announced in class and/or posted on Blackboard. This exam contains 70 multiple choice questions and is timed unless you have documented accommodations. Your grade on this exam will be determined by normalization to the performance of the class.

**Academic Honesty:** I expect you to do all work related to this course with honesty and integrity. Any questionable conduct will be treated as dishonest behavior. Please see the current undergraduate catalog for details concerning the University’s policy on academic dishonesty.

**Accommodations:** Any student requiring academic accommodations should register with Counseling and Disability Services on the second floor of Crooker Center. Their phone numbers are (713) 525-2169 or (713) 525-6953.

**Disclaimer:** I will adhere to the schedule and policies in this document as much as possible, but changes may be made during the semester. Announcements to this effect will be made in class, by email, or on Blackboard.