CHEMICAL PRINCIPLES II AND LAB - CHEM 1212K (4 Credit Hours)

**Course Policies and Common Syllabus Spring Term 2011**

Target Audience: This is course is primarily for the following majors: **BCHM, BIO, CHBE, CHEM, EAS, PFE-polymer, UCS and all declared pre-health in other majors** requiring many semesters of chemistry. **UEC** majors considering one of these majors should also take this course.

Instructor Information

This course will taught by

**Name:**

**Email:**

**Office:**

**Office Phone:**

**Office Hours:**

Course Components: This course comprises three hours of lecture, three hours of laboratory and a recitation problem solving session. Exams will be administered in the evening.

1. Lecture MWF 3 lectures, 50 minutes per week
2. Laboratory 1 lab, 2 hr. 50 minutes per week
3. Recitation 1 recitation, 50 minutes per week
4. Exam Period W 6:05 – 6:55 pm (three times during the term)

Exams will be held on the following dates. Please plan your schedule accordingly.

Wednesday, February 9, 2011

Wednesday, March 14, 2011

Wednesday, April 20, 2011

Required Materials

1. Atkins and Jones, *Chemical Principles*, 5th ed. 2010
2. Enhanced WebAssign Course Code
3. Interwrite PRS Rf Transmitter
4. GT Chem 1212 *Laboratory Manual*, 2010 edition
5. Safety Goggles and a lock for laboratory.

Tutoring and Support

The recitation session should be used to its fullest extent. This is an opportunity to work with other students and one-on-one with a graduate instructor.

Tutoring for freshman level (1000 level) courses is available within most housing systems.

Graduate student affiliated with the course will be available for office hours (approximately two hours per week) in the chem. annex room 50 for tutoring for both lecture and laboratory. Students are not required to seek support from their specific teaching assistant. The tutoring support is available from approximately 9 am until 5 pm Monday to Friday.

Other Programs

The student success program is another support system available at Georgia Tech. The website is listed below for contact and further information:

<http://www.successprograms.gatech.edu>

ADAPTS

Student learning disabilities as documents through this document will be honored as detailed to the instructor. Please inform the course instructor and laboratory instructor within the first week of the course or as soon as possible.

Honor Code

All students are expected to comply with the honor code regulations set forth by this institution. All violations of the honor code will be reported to the office of student affairs. Violations of the honor code can result in a zero on the particular assignment, a letter grade reduction, and can, in some instance, result in expulsion from the institution.

Course Grades (out of 1000 possible points)

Exam 1 100 points (Units 1 - 3)

Exam 2 150 points (Units 4 - 6)

Exam 3 150 points (Units 7 - 8)

Final Exam1 (date TBA) 200 points (Units 1-9 and Lab)

WebAssign (Post Lecture HW) 100 points

PRS and Recitation Participation2 100 points

Laboratory3 200 points

1 All students must take the final exam in a 1000 level course to receive credit. An F will be assigned if a student misses the final exam without a documented excuse.

2Daily PRS questions are typically administered during lecture. These will account for both participation and general knowledge of the lecture material. In addition, there will be weekly assignments during recitation that will be graded based upon participation and correctness.

3Students earning below 60% in lab will receive an automatic F for the semester and will be required to repeat both the lecture and the laboratory component. There are no exceptions to this rule.

Exams will be approximately 20 multiple choice items with no partial credit. One 8.5 x 11 crib sheet will be permitted for use on each of the three intermediate exams. Only one side of the crib sheet may be used, and they must be handwritten.

Grading Scale

A Excellent 901 – 1000 points

B Good 801 – 900 points

C Average 701 – 800 points

D Fair 601 – 700 points

F Failing Less than 600 points OR Less than a 60% in laboratory

Grade Improvement Plan

The final exam will be four sections in length with the first three section representing material from exams 1 – 3, respectively. The remaining section will cover material after exam 3 and laboratory. If you earn higher on a given section than you did on the corresponding exam, that percentage will replace the original score. For example, if a student earns a 75% on exam 1 and a 95% on section 1 of the final exam, the 95% will be used in the grade calculation.

Four crib sheets will be permitted on the final exam.

Post-Lecture Assignments

Online homework will be administered using WebAssignTM software.

URL: [www.webassign.net](http://www.webassign.net)

The access code that was purchased with the textbook bundle or a standalone access code (purchased through the website) will be needed. If you purchased an e-book, you will need to purchase a standalone code. The access codes are approximately $35.

In addition, for the self-registration process, the unique class key below will be needed to register you for the appropriate section.

Class Key: **gatech 4760 5154 (example only)**

When registering, please make sure you enter your GT ID number (902xxx) with no spaces. This is your unique identifier that will be used to pull your final marks at the end of the term. Also in the event that you register more than once, please contact the administer at [genchem@chemistry.gatech.edu](mailto:genchem@chemistry.gatech.edu) to correct this issue.

**Schedule of Post-Lecture Assignments:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Corresponding** |  | **Point** |
| **Assignment** | **Chapters** | **Deadline** | **Value** |
| Homework 1 |  |  | 10 |
| Homework 2 |  |  | 10 |
| Homework 3 |  |  | 10 |
| Homework 4 |  |  | 10 |
| Homework 5 |  |  | 10 |
| Homework 6 |  |  | 10 |
| Homework 7 |  |  | 10 |
| Homework 8 |  |  | 10 |
| Homework 9 |  |  | 10 |
| Homework 10 |  |  | 10 |
| Homework 11 |  |  | 10 |
| Bonus | All Chapters |  | 10 |

Homework Assessment:

1. Five (5) submissions will be allowed for each problem in the homework sets.
2. Homework is due at midnight on the date indicated (usually Tuesday with the exception of the last two assignments).
3. The lowest **ATTEMPTED** homework will be dropped when grades are computed. If the assignment is not downloaded, a zero that is not dropped will be recorded.
4. Homework is 10% of the semester average.
5. Extensions will usually not be granted with the WebAssign homework.

Questions regarding content on WebAssign should be addressed first to your teaching assistant. Other questions regarding technical difficulty can be emailed to [genchem@chemistry.gatech.edu](mailto:genchem@chemistry.gatech.edu) for resolution.

**Tentative Schedule:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week beginning** | **Monday** | **Wednesday** | **Friday** |
| **January 10, 2011** | Introduction | 1211 Review | Chemical Equilibria |
| **January 17, 2011** | Holiday | Chemical Equilibria | Chemical Equilibria |
| **January 24, 2011** | Acids and Bases | Acids and Bases | Acids and Bases |
| **January 31, 2011** | Acids and Bases | Aqueous Equilibria | Aqueous Equilibria |
| **February 7, 2011** | Aqueous Equilibria | **Exam 1** | Electrochemistry |
| **February 14, 2011** | Electrochemistry | Electrochemistry | Electrochemistry |
| **February 21, 2011** | Chemical Kinetics | Chemical Kinetics | Chemical Kinetics |
| **February 28, 2011** | Chemical Kinetics | Chemical Kinetics | First Four Groups |
| **March 7, 2011** | First Four Groups | First Four Groups | First Four Groups |
| **March 14, 2011** | Topical Review | **Exam 2** | Last Four Groups |
| **March 21, 2011** | Spring Break | Spring Break | Spring Break |
| **March 28, 2011** | Last Four Groups | Last Four Groups | Last Four Groups |
| **April 4, 2011** | Last Four Groups | D Block | D Block |
| **April 11, 2011** | D Block | D Block | D Block |
| **April 18, 2011** | Topical Review | **Exam 3** | Nuclear Chemistry |
| **April 25, 2011** | Nuclear Chemistry | Nuclear Chemistry | Review |
| **May 2, 2011** | Final Exam Week | See Registrar’s schedule | Final Exam Week |