Course Info and Policies

Instructor: Dr. Richard A. Himes  
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e-mail: himesra@cofc.edu  
Phone: (843)953-3618  
Connect web page: http://connect.mcgraw-hill.com/class/chem-112-Spring16-himes  
SI Leader: Savannah Jones (jonessl@g.cofc.edu)

Office hours: Subject to change: MWF 11 am-11:50 am, T 10 am-11:30 am.  
If I’m in my office and the door is open, I’m willing to take questions. If the door is closed, please understand that you may need to come back another time or make an appointment. Dr. Himes is a busy guy!

Lecture: Section 01: 9:00 am – 9:50 am, MWF. Location: SSMB 203.  
Section 02: 10:00 am – 10:50 am, MWF. Location: SSMB 127.

Important dates: Jan. 13: Last day to Drop/Add  
Jan. 18: MLK, Jr. Day (no class)  
Mar. 6-13: Spring Break (no class)  
Mar. 14: Mid Term grades available  
Mar. 18: Last day to withdraw with a grade of ‘W’  
Apr. 21: Last day of class (THURSDAY)

MIDTERM EXAMS:

Exam 1: Monday, February 1st  
Exam 2: Monday, February 29th  
Exam 3: Monday, March 28th  
Exam 4: Monday, April 18th

FINAL EXAM: SECTION 01: Apr. 29, 8-11 am, SSMB 203.  
SECTION 02: Apr. 25, 8-11 am, SSMB 127.

Required Text: Chemistry: Atoms First, 2nd edition, Burdge/Overby (same text as CHEM 111)

Calculators: A calculator that performs exponential and logarithmic functions is required and not provided. Please bring it to class meetings and all exams. Graphing calculators are permitted but not required; memory must be cleared prior to exams.

Prerequisite: A basic working knowledge of general algebra; CHEM 111. Co-requisite: You must be registered for Chem 112 lab concurrently. Withdrawing from either lecture or lab course requires withdrawing from both courses.

Attendance: Attendance is not recorded, but is strongly encouraged: attending lectures is required to do well in the course! Material not covered in the textbook may be covered in lecture. You are responsible for material that you miss. Office hours will not be used to teach missed topics. Participation in lecture is highly recommended.

Exams: You are expected to take each exam in class, on the dates listed above. Makeup exams will not be administered. ONLY if the instructor is consulted prior to the scheduled exam and ONLY for legitimate, documented circumstances will rescheduling be considered – but NOT guaranteed. Rescheduling the final exam requires pre-approval from the registrar and the chemistry department chair.
Disabilities: If there is a student in this class who has a documented disability and has been approved to receive accommodations through SNAP Services, please feel free to come and discuss this with me during my office hours.

Academic integrity: This course is conducted under the Honor Code of the College of Charleston (http://www.cofc.edu/studentaffairs/HonorBoard?HonorBoard.htm). Review the Department of Chemistry and Biochemistry’s policy on Scientific Integrity (http://www.cofc.edu/~chem/advising/integ.pdf).

Electronics Device Policy: Devices that are prohibited in class at any time are: cell phones, radios, TV, CD, DVD, and MP3 players and similar devices. Keep these devices off and out of sight. Devices that are allowed to be used at certain times during class, except during tests, exams and quizzes are mobile computing devices (no bigger than laptops), laptops, handheld computers, PDAs, electronic pens, calculators, and similar devices. The sound must be off unless otherwise specified by the instructor. During tests, exams, and quizzes no electronic devices are allowed to be on or in sight, unless otherwise specified by the instructor. The use of any wireless communication device during a quiz, test, or final exam is prohibited and will be considered a violation of the Honor Code.

Email: Email is considered an official method for communication at the College of Charleston. If students wish to have email redirected from the official College-issued account to another email address (e.g., @gmail.com, @hotmail.com), they may do so, but at their own risk. Having email redirected does not absolve the student from the responsibilities associated with communication sent to his or her College account. The College is not responsible for the handling of email by outside vendors or unofficial servers. Students are expected to check their CofC official email frequently for College related communications. Checking email on a daily basis is recommended. Students are responsible for reading all time-sensitive communications. "I didn’t check my email", forwarding errors, or email returned to the College with “Mailbox Full” or “User Unknown” are not acceptable excuses for missing official College communications via email. Please check your e-mail frequently and carefully read each e-mail from the instructor.

Course Performance and Evaluation

Grades: Assignment weighting and the grading scale for the course are below. You are responsible for picking up graded assignments, either in class or the instructor’s office. Graded papers cannot be left in public areas nor will grades be distributed by e-mail or over the phone. Please come to office hours if you need to discuss your grade and class performance.

<table>
<thead>
<tr>
<th>Formula</th>
<th>Grading Scale</th>
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<tbody>
<tr>
<td>LearnSmart Prep:</td>
<td>A  92-100%</td>
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<tr>
<td>4 Midterm Exams:</td>
<td>A- 90-92%</td>
</tr>
<tr>
<td>Final Exam:</td>
<td>B+ 88-90%</td>
</tr>
<tr>
<td>B  82-88%</td>
<td>C- 70-72%</td>
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</tbody>
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Scores will not be rounded. A percentage of 91.99 will remain an A-, for example. Rounding is stressful.

LearnSmart Prep: LearnSmart Prep is a required part of the overall course grade (5% of the total course grade). LearnSmart Prep is based on mastery and completion of the required material, which includes review of fundamental topics from Chem 111. On average, it takes most students 5-6 hours to complete 100% of the assignment, though times will vary depending on your mastery and recall of Chem 111 topics. LearnSmart Prep will be available until Monday, January 18 at 11 pm, at which time the percent completion of the assignment will be recorded for inclusion in the overall course grade. Note that completion of LearnSmart Prep does not guarantee any particular level of success during the Chem 112 course.
Quizzes: The instructor retains the prerogative to administer in-class or take-home quizzes without notice if he determines that students are not keeping up sufficiently with the material presented in class and/or with practice problems on their own. Points earned from any quizzes will count toward the following in-class exam.

Homework: Recommended problem sets will be posted on OAKS and/or assigned from the end-of-chapter textbook problems. You are not required to complete them, HOWEVER – the best way to do well in Chem 112 is to continually practice problems! You are expected to keep up with the homework as the course progresses, in order to reinforce the material and gain proficiency in solving the problems. The more you do, the more you learn.

Our section will have a website on Connect from McGraw-Hill: http://connect.mcgraw-hill.com/class/chem-112-Spring16-himes. Extra problems and review materials may be posted there but are NOT required.

Exams: Four midterm exams will be given during regular class meetings on the dates provided above. The material covered on each exam will be announced in class. No exam will be “dropped,” but your lowest exam score will carry half the weight of each of your three best exams.

Final Exam: The final examination consists of a standardized test prepared by the American Chemical Society, timed (110 minutes) and consisting of multiple choice questions. Date, time, and location are listed above.

Course Description and LEARNING OUTCOMES

Course Description: An introductory course in chemistry emphasizing theoretical aspects, and designed primarily for students intending to take one or more additional courses in chemistry. This is the second semester of a year-long course. You must have taken and passed Chem 111/111L.

LEARNING OUTCOMES: The student who successfully completes this course should be able to meet the following outcomes:

General Education Learning Outcomes:
- Students apply physical/natural principles to analyze and solve problems.
- Students explain how science impacts society.

THESE LEARNING OUTCOMES WILL BE ASSESSED IN THE LABORATORY CO-REQUISITE COURSE (112L)

Chemistry 112 Overall Course Learning Outcomes:
- Demonstrate competency with all of the learning objectives stated for Chem 111 and Math 111
- Apply common mathematical techniques to describe the kinetic and thermodynamic processes related to chemical equilibria

A more detailed description of the textbook chapters to be covered and learning goals for each chapter will be posted on OAKS.

Suggestions for Approaching Chemistry 112

Class Preparation and Participation: Chem 112 involves a large amount of information and problem solving, and material covered early in the semester must be understood before grappling with topics taught later in the course. It is essential to keep up with the material. The following are suggestions for class preparation and study:
**Before class:** Read and become familiar with the material prior to each class meeting. This prep time will help you get the most out of the lecture, and help you ask questions that will most augment your understanding of the topics.

**During class:** Participate! I encourage and expect questions. Questions help me evaluate what you have understood and when I need to be clearer. When preparing for class, jot down potential questions you may want to ask – the more focused and specific, the more you will get out of the answer. (Coming up with a good, focused question is an excellent way to pinpoint what you understand and what you don’t.) But you should ask any question you have. To keep class moving, I may eventually need to cut off questions on a single topic, but do not let that discourage you from asking your questions! Further questions during office hours or in e-mail are encouraged. I will make every attempt to respond to all e-mail questions same-day.

**Homework and study:** The assigned textbook problems represent the *bare minimum* of problem solving that you should be doing outside of class. Working example after example is the only way to become proficient in the problem solving part of this course. You should be able to work all of the example problems given. For more practice, work as many of the end-of-chapter problems as you can. Reinforce the skill by revisiting the assigned problems over time.

Chem 112 also emphasizes theoretical concepts. A good way to demonstrate your understanding is to give a clear explanation (to a study group, or in writing – which may be practice for exams!) of a concept without resorting to notes or the text. I recommend group study. “Teach” certain topics to others and discuss questions that come up in response. Being able to clearly explain a topic and answer questions about that topic will force you to fill conceptual gaps that you may not have known were there.

And, importantly: WORK LOTS OF PROBLEMS!!!