



# General Chemistry, 806-134

## Spring 2013

Instructor:	Christen Smith
Office:	260D
Office Hours:	Tues. and Wed. 10-11 AM <i>or by appointment</i>
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### Required Materials:

- *Introduction to Chemistry, 3<sup>rd</sup> edition*, by Bauer, Birk and Marks (ISBN: 978-007340267).  
*Note:* You do not need to purchase the text package with online codes.
- Chemistry 134 Laboratory Manual
- Safety goggles that completely seal around the eyes and fit over regular glasses.
- A scientific, non-graphing, calculator capable of performing square roots, logarithms, exponentiation, and scientific notation operations (TI-30X IIS or TI-36X recommended). Programmable calculators are NOT allowed in this course.

**Course Description:** This course covers the fundamentals of chemistry. Topics include: the metric system; problem solving; periodic relationships; chemical reactions; chemical equilibrium; acids, bases and salts; and gas laws. (4 credits)

### Class Schedule:

#### Lecture:

Tuesday and Thursday 2:30-3:45 pm (Room 209)

#### Lab:

#63548 – Tuesday 4:00- 5:50 pm (Room 334)

#63547 – Thursday 4:00- 5:50 pm (Room 332)

### Prerequisites:

1. Elementary Algebra w/Apps (10-804-110) with a C or better or Math Compass score of Algebra 30+
2. College Reading Strategies (10-808-101), English 1 (20-801-201), Written Communications (10-801-195), or Compass Reading 75+

**Course Competencies:** You have the opportunity to learn many skills in this course. A full list of learning outcomes arranged by textbook chapters and topics is posted on Blackboard.

**Core Abilities:** In addition to specific job-related training, Madison College has identified core abilities that are transferable skills and knowledge that extend beyond the context of a specific course. Core Abilities are eight essential life and success skills that contribute to the development of students as life-long learners on the job, at home, and in the community. This class addresses the following: *Communication, Critical Thinking, Mathematics, Science and Technology.*

**Course Calendar:** Tentative lecture and lab schedules are attached and also available on Blackboard.

*Last day to drop:* Thursday Feb. 7<sup>th</sup>, 2013

*Last day to withdraw:* Friday May 3<sup>rd</sup>, 2013

**Note:** I cannot withdraw students from this class (i.e., assign a “W” grade), even if they stop attending lecture and lab. It is the sole responsibility of the student to withdraw from a course.

<b>Grading Scale:</b>	92-100%	A
	88-91%	AB
	82-87 %	B
	78-81	BC
	70-77	C
	60-69	D
	Below 60%	F

<b>Grade Components:</b>	Exams: 3 exams @ 100pts each	300	36%
	Final exam @ 200 pts	200	24%
	Lab Reports 11 @ 20 pts each, <i>drop2 lowest grades</i>	180	22%
	Quizzes: 12 @ 10 pts each, <i>drop 2 lowest grades</i>	100	12%
	Homework: 14 @ 3 pts each, <i>drop 2 lowest grades</i>	36	4%
	Participation	20	2%
	<b>Total</b>	<b>836</b>	<b>100%</b>

**Exams:** Three mid-semester exams will be given during the course of the semester, each worth 12% of your final grade (see attached schedule for exam dates). Please make an effort not to miss these exams. Because of the difficulty associated with creating fair evaluations, **there will be NO make-up exams**. If you have an emergency or an unavoidable obligation that necessitates missing one of the mid-semester exams, you must notify me to discuss your situation—before the exam if possible. If you miss an exam, the weight of your final exam will be increased to determine your final grade (that is, one missed exam will make the final worth 36%).

**Final Exam:** The final exam will be comprehensive in nature and include content from the entire semester. Our final is scheduled for **Tuesday, May 14th, 3:30-5:20 PM**.

**Quizzes:** A short quiz (~10-15 minutes) will often be given at the start or end of lecture. Please see the attached schedule for **tentative** quiz dates. These quizzes draw from previous lectures or homework assignments, and serve to help you and me gauge your understanding of the current topic. **There are NO make-up quizzes** including if you are late to class. The two lowest quiz scores will be dropped at the end of the semester, so you can miss two quizzes without penalty.

**Attendance:** Attendance of this class is crucial! Students who miss more than a few class periods rarely succeed in passing the course. Missing lecture periods will also adversely affect your participation grade. If you are late, it is better to quietly join the class than to miss lecture entirely.

**Participation:** Your participation grade is earned based on your performance in lecture and lab. Attendance, completion of in-class activities, group work, and participation in lab will all contribute to your grade. The following provides a rough illustration of how your participation is scored:

High Grade	Student has excellent attendance, is actively involved in class and lab, and asks for help when needed. He or she is a respectful and reliable lab partner.
Mid-Grade	Student has missed several classes, occasionally participates in class and lab, and does not necessarily ask for help when something is unclear. He or she might not always be a reliable lab partner.
Low Grade	Student rarely participates in class and lab, or is disrespectful of other students. He or she has missed many classes, and is not a reliable partner in class or lab.

**Homework:** With a few exceptions, weekly homework assignments will be passed out in lecture every Thursday of the semester. If you have to miss class for unforeseen circumstances, you are responsible for emailing me to receive a copy of the assignment for that week. Homework is due at the beginning of lecture on the following Tuesday unless otherwise stated.

I do not grade every problem on your homework assignments. Your homework grade is based on completion and effort using the following rubric:

<b>3</b>	Student completed every problem and showed all necessary calculations
<b>2</b>	Student completed most problems or has incomplete work
<b>1</b>	Some questions were not answered or no work was shown in solving the problems
<b>0</b>	No assignment was turned in

In general, completion of homework assignments has a small impact on your final grade, but for many students this is the best way to consistently practice chemistry outside of class. Since I do not grade your homework assignments, you are responsible for correcting your own work outside of class. Please feel free to ask me for help! I am always very willing to answer questions outside of class. The answer key for each homework assignment will be posted on blackboard before the next lecture. ***I will NOT accept homework assignments after the key is posted online.*** Your two lowest homework scores will be dropped at the end of the semester, so you can miss two assignments without penalty. Remember that these assignments are designed to benefit you. Homework can be good practice for quizzes and tests, but only if you work and think through every problem.

In addition to assigned homework, a list of recommended problems from the text is available on Blackboard. These problems will not be collected or graded, but students are strongly encouraged to complete them in order to prepare for lecture, assignments and exams.

**Lab Reports:** Policies will be discussed in more detail during lab. A few important points:

- You must read the experiment and complete the pre-lab portion of your lab report before each lab session. If I feel that you are not adequately prepared, you may be dismissed from lab.
- You must be on time for lab. If you miss important procedural or safety instructions due to tardiness, you may not be permitted entry into lab.
- Lab reports are typically due at the beginning of the next scheduled laboratory session. No late lab reports will be accepted.
- You may work with a lab partner on most of the labs, but the final lab report must be your own work.

- Missed labs cannot be made up. Your two lowest lab report scores will be dropped to allow for any unavoidable absence.
- Without prior authorization from me, you are only allowed to attend the lab section in which you are officially enrolled.

## **RESPONSIBILITIES AND POLICIES**

**Student Responsibilities:** Students are expected to be familiar with Madison College policies and procedures. Many of the important policies and procedures are on the Madison College website, located at <http://madisoncollege.edu/student-rights-responsibilities>.

Academic Integrity is an expectation in all Madison College classes. Plagiarism, cheating and collusion are prohibited. Plagiarism is defined as passing of another person's work as your own. Students who fail to observe these standards are subject to disciplinary action. Madison College has a strong policy on Academic Misconduct which is published on its website. Please refer to this page to review all Academic Integrity and Misconduct policies located at <http://madisoncollege.edu/academic-integrity>.

**Instructor Responsibilities:** I will communicate frequently with you about this class and maintain a professional and safe learning environment in accordance with all college policies. You can expect a reply to communication via e-mail or in person within 24 hours.

**Student e-Mail:** You are responsible for monitoring your Madison College e-mail account, which is the e-mail address used by Blackboard. Instructions for forwarding your Madison College e-mail to another account can be found at <http://madisoncollege.edu/email-view#rules>.

**Blackboard:** A Blackboard course site has been created for this class. You are expected to check the course site *at least* weekly for announcements, assignments, and additional resources.

**Special Needs/Services:** Madison College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. For more information, please visit <http://madisoncollege.edu/disability-resource-services-drs>.

Please let me know as soon as possible if you require any special accommodations for this course. You will need to show me your accommodation plan from Disability Resource Services.

### **Other Resources:**

- Peer-to-Peer Tutoring Services in Chemistry at the Math Center: <http://madisoncollege.edu/truax-math-center> and
- Free chemistry tutoring available at Truax library—please refer to our course Blackboard site for an updated schedule.
- Counseling Services (608-246-6076): <http://madisoncollege.edu/counseling>
- Advising and Career Resources (Student Development Center):  
<http://madisoncollege.edu/advising-counseling-student-development-center-sdc>

**Cell phones and Laptops:** My goal is limit distractions in class and lab as much as possible. Please keep cell phones quiet during class. The use of laptops or other electronic devices is typically not permitted during lecture or lab.

**Syllabus Changes:** I may make changes to this syllabus based on scheduling, your feedback, or logistical issues. I will inform you via a Blackboard announcement as soon as any change is made.