

## CHEM 102 (section 1454) Summer I 2013 General Chemistry II Lecture

**Professor:** Dr. Juliet Hahn  
**office:** Leatherman Science Facility L303 H (office hours will be held in CEMC 104A\*\*\*\*)  
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\*\*\*\*There are renovations going on in the 3<sup>rd</sup> floor of the LSF building so the classroom has been moved to LSF L 108 and my office has been moved to CEMC 104A during Summer I. In case of emergency (because I will probably not have access to my office phone until renovations are complete probably after the end of the semester), you may also call me on my cell phone at 803-955-6008.

**class time:** sect 1454 – MTWR 10:00 - 11:50 am in LSF 108\*\*\*\*

**office hours:** 9:15 am to 9:45 am MTWR & other times by appointment (Please email me to make an appointment. If you need me, I will always find the time to meet with you.) I will also usually be available about 15 to 20 minutes before the lecture and after the end of lectures to answer questions.

**For the Lecture you will need:** Textbook, Chemistry, a Molecular Approach (2<sup>nd</sup> edition) by Nivaldo Tro (You will also need the access code for Mastering Chemistry online tutorial and homework program.

**Course ID:** HAHNSummerI (for online homework) **scientific calculator:** To perform calculations in this course, you will need an inexpensive “scientific calculator”. It does not need to be elaborate but should be able to express numbers in scientific notation (e.g.  $6.02 \times 10^{23}$ ) and must have log (and ln) functions. You can buy such a calculator for around \$10.00 at the local discount store. You will be able to use your calculator on all exams. You will not be allowed to use a cell phone as a calculator on quizzes & exams.

Quizzes and exams (& answer keys for quizzes and exams) will be posted online at <http://JulietHahn.com> after you take the quizzes and exams. Please download the blank form of the quiz and work through the quiz before the exam to study for the exam. Please download the blank form of the exam and work through the exams before the final exam to study for the final exam. You will **never ever** see the same question given on a quiz also on an exam. (The idea is to **understand** the questions on the quizzes & exams.) In fact if you go to that website now, you will be able to download all of my exams and quizzes for Gen Chem I and Gen Chem II from Fall ‘12 and Spring ‘13.

**For the Lab you will need:** Textbook, Francis Marion University **General Chemistry 102 Laboratory Manual** (12-12 Revision edited by T.W. Ragsdale) and **safety goggles** available at McNair Science 307

Chemistry 102 is a 4 credit class. Your lecture grade makes up 75% of the class grade and your lab grade is counted as 25% of the class grade. I will include your lab grade as 25% of the Chemistry 102 lecture grade. I am also teaching CHEM 102L lab **section 1455**, All prelab lectures will be held in **LSF 108** and all labs will be held in **MSB L318NOTE:** By department policy, if you do not complete (or do not turn in any work) for **3** of the approximately 10 labs this semester, you will **earn an F** on the entire class.

**Grading: Grading will be based on 800 points**

3 exams .....	300 pts
final exam (cumulative normal format) .....	180 pts
6 quizzes (drop 2 quizzes, 25 pts each quiz) .....	100 pts
Mastering Chemistry online homework all added together .....	20 pts
lab grade .....	200 pts
extra credit attendance points .....	15 pts
(If you sign in to 90% of the class period, you will get 15 pts.)	
<b>Total points .....</b>	<b>800 pts</b>

The grading scale will be the standard grading scale. 90 & above A, 80 & above B, etc. The letter grade will never be curved to give a lower letter grade than the standard.

**Schedule of Reading Assignments:** We will spend about 2 class lecture periods per chapter and will cover each chapter consecutively until the end of the semester. We will cover Chapter 6 and Chapter 11 to Chapter 18. This reading assignment schedule is not chiseled in stone and may change during the semester. **(Exam & Quiz dates are chiseled in stone.)** I suggest that you skim the chapter before the material is covered in class and actually read (in detail) the sections covered in class after the material has been gone over in class. (skim = read introduction, conclusion, flip through book noting the major examples, figures and section headings in the chapter) You will receive homework problems (assigned using the Mastering Chemistry online tutorial and homework program that accompanies your textbook). **Exams will be given in the last hour of the exam lecture day. Quizzes will be given in the last 15 minutes of the quiz date.**

<u>dates</u>	<u>chapters</u>
5/28T .....	review CHEM 101
5/29W (Quiz I, in class open book exercise), 5/30R ..... (All other quizzes will <u>not</u> be open book.)	6
6/3M (Quiz II), 6/4T.....	11
6/5W *****	<b>Exam I</b>
6/5W (Exam I), 6/6R .....	12
6/10M (Quiz III), 6/11T .....	13
6/12W (Quiz IV), 6/13R .....	14
6/17M *****	<b>Exam II</b>
6/17M (Exam II), 6/18T.....	15
6/19W (Quiz V), 6/20R .....	16
6/24M(Quiz VI), 6/25T .....	17
6/26W *****	<b>Exam III</b>
6/26W(Exam III), 6/27R .....	18
6/27R .....	review

**Final Exam – 7/1 M** from 10:00 am to 11:50 am in same room

**academic deadlines & important days :** 6/21W F last day to withdraw without academic penalty, 6/17 M last day to withdraw from class

**Some Useful Information:** Chemistry is not some far away, antiseptic, horrible, technological monstrosity of the 21st century and chemicals are not some maiming, toxic substance from which we all have to keep a distance. Modern society would not be possible without chemistry. Chemistry gives us all pharmaceuticals, all synthetic materials (polyester, nylon, plastics, teflon, styrofoam, perfumes, rubber, nutrasweet), batteries, the ink in your pen, liquid crystals in your LCD watches & in your flat panel TVs. Chemicals also makes up the bodies of all living organisms. Everything that you eat are chemicals. Chemicals are everywhere!

Chemistry 102 is the second semester of a two semester sequence of General Chemistry lecture. We will cover about half the chapters in the text this semester. Do not get too cocky from having done well in your high school science classes to think that you will do well on this course by just being smart. Do not think that just because the class's name says "...Chemistry" that the class automatically will be too boring, too scary, too hard, too much like your high school chemistry class for you to enjoy and do well. Think to yourself: **[I think I'll really work on this course and maybe I'll actually (gasp #1) get an A on the class and/or (gasp #2) enjoy the class.]** Choose whichever gasp you like better : ) Just keep in mind that **no matter how smart you are**, you will not do well on this course without a **lot of hard work**.

The grade that you earn in this class will be directly related to how much time you spend preparing for the class. **The biggest secret to doing well in this course is to keep up with the lecture material.** The biggest mistake that students make which results in a bad grade in the course is **1) not keeping up with the lecture material and attempting to cram the night before every exam 2) thinking that just understanding the lecture material means that you will do well on the course – you have to actually work at least the problems on the quizzes immediately prior to the exam, the example worked problems from the lecture and for a better grade the homework problems.** When I say you have to work the problem, I mean that you have to do the problem including the final plugging in of the numbers into your calculator to obtain the final correct answer. **Just looking at the worked problem and sort of understanding it does not count as having done the problem.** If you make either of these two common mistakes, you will not learn anything. (You will also get a bad grade on this course.) General Chemistry is going to be a lot of work. **(If General Chemistry is not a lot of work, then you may be doing something wrong and your grades may reflect this.)**

The following is my suggestion for what you should do to study for this class. If you have no time, do the things listed first by no time. If you have more time and want a better grade, do the things listed by lots of time. **(no time: attend class, study the 2 quizzes given immediately before the exam, study lecture notes, rework the example problems in the lecture, do assigned homework problems, read the book :lots of time)** **Class attendance is very important to doing well on this course. Not coming to class and not taking the quizzes and exams are the surest way to get an F on the class.** (even without the attendance EC)

**Please come to class the lecture between the quiz and the exams.** We will review the quizzes and make sure that everyone understands everything on the quizzes before the exam. However you should not simply memorize the quiz because I will **not** give the same questions on the exams as appeared on the quiz. The idea is **to understand** the quiz before the exam not to simply memorize everything in sight.

### **For Missed Exams:**

**There will be no makeup exams, quizzes or final exam without a documented excused absence.**

#### **1. Exam:**

**a. no documentation excuse:** For **one and only one exam** (with no documented excuse), I will replace your missing exam grade with your final exam grade. After the first undocumented excuse, you will earn a zero for any subsequent undocumented missed exam. (ie If you miss one exam with

a no documentation excuse, I will replace your missing exam with your final exam grade. If you miss a 2<sup>nd</sup> exam with no documentation excuse, you will earn a zero on that exam, etc.)

**b. documentation excuse:** If you have documentation for a missed exam, I will replace your missing exam with either your own average for your other exams (prorated for difficulty) or your own final exam grade (which ever is higher).

## 2. Quiz:

**a. no documentation excuse:** You will earn a zero for a missed quiz but you get to drop 2 zeros with no documentation. If you miss no quizzes then you will get to drop your 2 lowest grade quizzes instead.

**b. documentation excuse:** If you have documentation for a missed quiz, I will average your own quizzes and prorate the difficulty of the quiz and plug in for your missing quiz.

**3 Final Exam:** Because of the importance of the cumulative final exam, if you miss the final exam without documentation, you will earn a zero for the final exam. If you miss the final exam with documentation acceptable to me, I will give you an incomplete (because of the grading deadline) until I have time to give you a make up final exam. The makeup final exam will be totally different from the final exam which I gave the rest of the class.

Under no circumstances do I ever give the same quiz, exam or final exam for any missed quiz, exam or final exam. I usually post the answer keys for all quizzes and exam almost immediately after the class has taken the quiz or exam. It takes me about 2 days to write a new and different exam or final exam.

An averaged grade to plug in is derived by the following equation. For example if you have a documented excuse for missing Quiz II, your plug in Quiz II grade will be calculated as follows:

missing Quiz II grade /class Quiz II average = your average all quizzes / class average all quizzes

**Please provide me a hard copy of your documentation for my files ASAP.** Examples of valid excuses include: medical grounds, death in the immediate family and documented weather related transportation problems and university business. You must have hardcopy documentation such as a doctor's signed note on letterhead, newspaper article for funeral or a letter from a professor stating that worked on behalf of the university on the given date. Examples of working on behalf of the university could be that you were a part of an official university sports team or that you represented the University at a conference. Examples that are not valid excuses include: personal problems, going away for the weekend, intramural sports, etc. (In general acceptable excuses for absences for missed exams will be much more rigorous than acceptable excuses for absences with no missed work.) You will be allowed to drop two lowest quiz grades. (The lowest quiz grades dropped may be up to two zeros for two unexcused absence.) You will not be allowed to drop the final exam. (All exams will be given in the last hour of the 1 hour 50 minute class. All your Exams will start at 10:50 am. If you come to class the day of the exam at 11:50 am, I will not let you take the exam. This would be a missed exam. If you come at 11:40 am, you will be able to take the exam only until 11:50 am.) If you are not sure if your excuse is acceptable, please ask me rather than just assuming that it is not an acceptable excuse.

**The exams will cover the materials discussed in class.** Unless specifically mentioned, exams will not cover materials in the textbook that were not discussed in the class. However it is strongly recommended that you read the text. Exams and the final exam will have almost identical format. Quizzes will be mostly short answer and long answer. **An exam will be a mixture of multiple choice (MC), short answer/fill in the blank (SA) with one (or two) long answer (LA) questions per exam.** A long answer question is a question which will have a half page to a full page blank for which you will have to show your work for solving some sort of word problem. You may be asked to write a few sentences to explain something for

the long answer question. Exams will be very similar to the quizzes however you will never get an identical question on an exam which you got on a quiz.

When you get back your graded quizzes and exam you will also get an answer key with a list of points taken for common mistakes. You will get to keep your exams & quizzes to study so that you learn from your mistakes. You will get partial credit for LA (& some SA) questions. If there are any mistakes on the graded exams any requests for regrades **must** be made during the class in which the exam or quiz is returned in writing. Once you leave the class, any requests for regrades will **not** be honored.

Pay attention in class and follow the syllabus. I am the only one who is deciding on how this class will be run. (Example: Lets say that all of your friends tell you that if you miss an exam, you will get the class average on the exam. The syllabus and I did not say this. So you need to ask me or refer to the section of this syllabus on missed exams & quizzes. You will note that without an excuse **one missed exam is replaced by the final exam grade**. Without an excuse a second missed exam is replaced by a **zero**. If the missed exam is an acceptable (to Dr. Hahn) excused absence, you will get your own average prorated for the degree of difficulty of the exam.) or the final exam whichever is the higher grade. I personally make up all of the exams & I personally grade all of the exams.

**Absences:** If you miss a class or a portion of a class, it is your responsibility to obtain the lecture notes and any class assignment given out during the classes you missed. I will not redo the lecture individually for any individual who missed a class or give my lecture notes for the missed classes. **Missing a class during which I give an assignment (such as a change in exam date) does not excuse you from the assignment. It is your responsibility to contact classmates or me either before your missed class period or as soon after missing the class as possible.**

**Students with Disabilities:** Students who have special conditions as addressed by the Americans with Disabilities Act should notify the professor of the course immediately. **Academic Dishonesty:** Academic dishonesty in any form will not be tolerated. University regulations on academic honesty will be strictly enforced throughout this course. **Drop Date:** The last date to drop this class without academic penalty is 6/12 W. **Cell Phones and Electronic Devices:** Please turn off cell phones and electronic devices before entering the classroom. Use of cell phones is strongly discouraged in the classroom. **Pre-requisite (or co-requisite) :** CHEM 101, MATH 111 (You must have credit for or be currently enrolled in this math class.) **Co-requisite:** CHEM 102 L (You must be enrolled in the lab class at the same time as the lecture.)

**One final suggestion,** please go to <http://JulietHahn.com> to download the exams and quizzes from the Spring 13 semester for General Chemistry II. I will do my best to not give the same question on your exams and quizzes but I tend to think similarly so that the exams and quizzes which you will get will be similar to the quizzes and exams which the Spring 13 class got. (Note: You do not need to have a friend who was in the Spring 13 semester to get the exams either ; )

**One final point,** my objective is to teach General Chemistry to everyone in this class. I want you all to do well because you are my students. If you have any difficulties, please come to see me before your difficulties cause irreparable damage. Do not just stop trying without coming to see me first.