

## CHEM 101 (section 5162 & 4752) Spring 2014 General Chemistry I Lecture

**Professor:** Dr. Juliet Hahn  
**office:** Leatherman Science Facility L303 H  
**phone:** 843-661-1483      **email:** [JHahn@fmarion.edu](mailto:JHahn@fmarion.edu) (easiest way to get a hold of me)

**class time:** sect 5162 –T,R 8:30-9:45 am; sect 4752–T,R 9:55–11:10 am in LSF L 301 (R=Thursday)

**office hours:** 1:00-1:30 pm W, 4:20-5:00 pm W, & T,R 3:40 to 5:00 pm (except when there is a seminar or faculty meeting on those T,R times) & other times by appointment. (Please email me to make an appointment to make sure that I am sitting in my office when you come to see me. If you need me, I will always find the time to meet with you.) I am almost always in my office during normal business hours from 9 am to 4 or 5 pm M to F. I am usually not in my office during lunch time. I have a log sheet on my office door so you can tell if I have left for the day. If I am somewhere else other than my office, I always leave a note saying where I am and when I will be back so you can follow me except when I go to the cafeteria.

**For the Lecture you will need:** Textbook, Chemistry, a Molecular Approach (3<sup>rd</sup> edition) by Nivaldo Tro  
You will also need the **access code** for Mastering Chemistry online tutorial and homework program. (You get **points for doing the homework** so if you do not have the access code, you may lose out on some points this semester.) **Course ID: HAHNS14830TR and HAHNS14955TR** (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 \$5 to \$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.

You will also need to register and log into BlackBoard for this class at <https://blackboard.fmarion.edu>. The directions on how to log into BlackBoard is located on my website at <http://JulietHahn.com>. Everyone in class should automatically have a BlackBoard account. If you have difficulties logging in, please contact the help desk at 843-661-1111. There will be BlackBoard discussion points so please do this by the end of your second week of classes to not lose points & to keep track of what all of your colleagues are saying. You should also be sure to log into the “Mastering” Homework website to get your homework points

Quizzes and exams (& answer keys for quizzes and exams) will be posted online at <http://JulietHahn.com> after you take the quizzes and exams. I will also post the answer key and blank quizzes and exams immediately after you take the quizzes and exams in the display case outside of LSF L301. 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 the <http://JulietHahn.com> website now, you will be able to download all of my exams and quizzes for Gen Chem I (Fall '12, Fall '13) and Gen Chem II (Spring '13 & Summer I '13). It is probably a good idea to download all of the old exams from Gen Chem I from Fall '13 to get an idea of what kind of quizzes, exams and final exam I give. It is a lot of pages because there are 4 versions of each quiz, exam and final exam because there are 2 versions for each section's exams. You may want to just download and look at it just because of the number of pages (which is why I do not print and hand out the exams to the class ~ 40 pages per exam)

**For the Lab you will need:** Textbook, Francis Marion University **General Chemistry 101 Laboratory Manual** (the latest revision edited by T.W. Ragsdale, identical to last semester) and **safety goggles** available at McNair Science 307 **lab notebook with rip out pages** available at the University bookstore. (Consult your individual lab instructor about this.) (**My sections of the lab** do not use the lab notebook from the bookstore.)

Chemistry 101 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 final lab grade (which I will get from your lab teachers) as 25% of the Chemistry 101 lecture grade. I am also teaching **CHEM 101 lab** section **4755 T 12:45 to 3:35 pm (LSF 301/MSB 318)**, section **4756 W 1:30 to 4:20 pm (LSF304/MSB 318)**, section **5163 TH 12:45 to 3:35 pm (LSF301/MB 318)**. **NOTE:** 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. If you earn an F in the lab and your lab teacher submits an F for your lab grade, I will have no choice but to assign an F for the lecture as well.

**Grading: Grading will be based on a percentage of 820 total points**

|  |         |
|--|---------|
| 3 exams (100 pt per exam).....                               | 300 pts |
| final exam (cumulative normal format) .....                  | 200 pts |
| 7 quizzes (drop 2 quizzes, 20 pts each quiz) .....           | 100 pts |
| Mastering Chemistry online homework all added together ..... | 10 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.)

Blackboard Participation Points .....

10 pts  
 { You will get these points if you log into my class's blackboard site [not the lab blackboard but my lecture blackboard] and (a) either asking questions or (b) answering questions (hopefully correctly – try not to answer unless you are pretty sure you know the answer) [2 pts per question, maximum of 10 pts] at least 5 times during the semester. (That is 700 individual postings that I have to read through.) I encourage you to ask and answer questions on the blackboard but you will only get a maximum of 10 total pts for both questions and answers. That way you will be able to ask and answer questions where I regularly monitor your Q&A. I will also answer some of your blackboard questions in class. (reason for answering questions in class: major point, no one understands, someone gave the wrong answer) I will do my best to read through the discussion forum at least one time on Friday evening each week. If you need a question answered by me immediately, ask me directly instead of posing it on the forum because I do not promise to answer your question & I may just wait for one of your colleagues to answer your question. }

**Total points ..... 820 pts**

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. I do sometimes stretch the lower limits (below C) to your advantage.

**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 101 is the first 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**. In fact just by trying, you can pull yourself up half a letter grade. Conversely if you do not try you will lower your final letter grade by almost half a letter. [don't show up to class (lose 15 pts), don't do homework (lose 10 pts), don't participate in Blackboard discussion (lose 10 pts) – total 35 / 820 pts = over 4 % pts, ex:76% (C) vs 80% (B) final percentage points]

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 mistakes that students make which results in a bad grade in the course are: **1) not attending the lecture 2) not keeping up with the lecture material and attempting to cram the night before every exam 3) 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 one of these three 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, Quizzes, Final Exam:**

**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. There is absolutely **no strategic advantage to not taking a quiz, exam or final** when everyone else in the class takes the exam. I usually post the hard copy of the answer keys for all quizzes and exams (in the glass cases outside LSF L301) almost immediately after the class has taken the quiz or exam. It takes me at least 2 days to write a new and different exam or final exam.

An averaged grade to plug in (for an excused absence) 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:

$$(\text{missing Quiz II grade}) / (\text{class Quiz II average}) = (\text{your average all quizzes}) / (\text{class average all quizzes})$$

**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 you 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 and one zero hour exam. You will not be allowed to drop the final exam. You can provide documentation to ensure that you get the attendance extra credit.

**Please take quizzes and exams in your own section unless I give you prior permission.** I make up the number of exams and quizzes for the expected number of students and I may not have enough quizzes or exams for you to take the quiz or exam if you come to the wrong section. **I also reserve the right to refuse to let you take the quiz or exam in the wrong section even if I have enough quizzes or exams.** (If you come to class the day of the exam for the 9:55 am – 11:10 am class at 11:10 am, I will not let you take the exam. This would be a missed exam. If you come at 11:00 am, you will be able to take the exam only until 11:10 am.) If you have a good reason for missing an exam and are not sure if your excuse is acceptable, please ask me rather than just assuming that it is not an acceptable excuse. I am a reasonable person.

**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 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 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. I am asking you to check your graded exam/quiz against the answer sheet. **Keep in mind that I am grading ~ 140 six to ten page exams (with partial credit) by myself and I am a human being so you are supposed to check for human error. (Help me by checking for human error.)** 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 these particular sections of this class will be run. There are usually **multiple sections of the General Chemistry I & II Lectures** and **each section** is run by a **different professor** with **different rules and syllabi**. Rules for one of the other sections of the lecture do not apply to this section. Example 1: If your friend (or even the Chemistry tutor) in professor X's Gen Chem II class says that they do not need to do the online homework, this is probably correct for your friend (& the tutor is probably thinking of professor X's class). However in my section if you do not do the online quiz, you will lose 10 of the 820 points or the equivalent of 10 points on one of the exams (i.e. One exam grade of 70 pts could become 80 pts if you do the homework but will remain 70 if you do not do the homework.) . Example 2: Let's say that all of your friends tell you that if you miss an exam, you will get the **class** average on the exam. Or your friend says that all of the classes use the same exam so you can take the exam in another professor's class. 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**. If you get a 65 % on your final exam, you will have a 65 on your missing exam. Without an excuse a second missed exam is replaced by a **zero**. If the one missed exam is an acceptable (to Dr. Hahn) excused absence, you will get your own average prorated for the degree of difficulty of the missing exam.) or the final exam grade whichever is the higher grade.

I personally make up all of the exams & I personally grade all of the exams. I never let undergraduate students, staff or other faculty help me grade the exam – not even to add up the final points. Because there is partial credit, this policy ensures consistency in grading.

**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 person who missed a class or give out 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.**

**[I will try to post class document camera notes (or if I can technically do it, a YouTube video of the lecture) on the class' Blackboard site.]**

**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 (W) is 2/6 R. Last day to withdraw from the class is 4/4 F **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. You may **not** use your cell phone as a calculator during an exam or quiz. **Pre-requisite (or co-requisite)**: MATH 111 (You must have credit for or be currently enrolled in this math class.) **Co-requisite**: CHEM 101 L (You must be enrolled in the lab class at the same time as the lecture.)

**Schedule of Reading Assignments:** Please plan ahead. Here is your entire semester schedule. We will spend about 2 or 3 class lecture periods per chapter and will cover each chapter consecutively until the end of the semester. We will cover Chapter 1 to Chapter 10 (skipping Chapter 6). 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) I cannot cover every detail in the textbook if I need to cover all the needed chapters, so I skip around. (This is why you should read after I go over the material in class.) You will receive homework problems (assigned using the Mastering Chemistry online tutorial and homework program that accompanies your textbook). **Exams (E) will take up an entire class period. Quizzes (Q) will be given in the last 15 minutes of the quiz date.**

| <u>dates</u>                                  | <u>chapters</u> |
|---|-----------------|
| 1/7T, 1/9R, 1/14T(QI).....                    | 1               |
| 1/16R, 1/21T(QII) .....                       | 2               |
| 1/23R, 1/28T(Exam I), 1/30R .....             | 3               |
| <b>1/28T .....</b>                            | <b>Exam I</b>   |
| 2/4T, 2/6R(QIII), 2/11T .....                 | 4               |
| 2/13R, 2/18T(QIV), 2/20R .....                | 5               |
| <b>2/25T .....</b>                            | <b>Exam II</b>  |
| 2/27R, 3/4T .....                             | 7               |
| 3/6R(QV), 3/11T, 3/13R .....                  | 8               |
| 3/25T(QVI), 3/27R, 4/1T(Exam III), 4/3R ..... | 9               |
| <b>4/1T .....</b>                             | <b>Exam III</b> |
| 4/8T, 4/10R, 4/15T(QVII) .....                | 10              |
| 4/17R.....                                    | review          |

**Final Exam ... 8:30 am class – 4/24R 8:30-10:30 am, 9:55 am class – 4/24R 3-5 pm (in same room)**

**Holidays** 1/20M - **MLK Holiday**; 3/17M to 3/21F **Spring Break**; 2/6R - **last day withdraw without W**; 4/4F - **last day withdraw**; 4/21M - **last day classes**; 4/22T - **reading day**; 4/28M noon - **final grades due for seniors**; 4/30W noon - **final grades due**

**One final suggestion**, please go to <http://JulietHahn.com> to download the exams and quizzes from the Fall '12 & Fall '13 semester for General Chemistry I. 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 Fall '12 & Fall '13 class got. (Note: You do not need to have a friend who was in the Fall '12 & Fall '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. I may be able to advise you on how to best study for this class so that you spend your time for the best effect. Do not just stop trying without coming to see me first.

**Syllabus Agreement Form, Information Sheet & PIN number selection**

I have read and understand the policies stated in the syllabus for Dr. Hahn's CHEM 101 Lecture class for the Spring semester of 2014. All questions have been answered to my satisfaction. By signing this sheet I agree to abide by the policies stated therein.

Your signature \_\_\_\_\_ Dr. Hahn CHEM 101 Lecture S'14

Print your name: \_\_\_\_\_ Date submitted: \_\_\_\_\_

\*\*\*\*\* Information Sheet

contact phone # \_\_\_\_\_ contact email address \_\_\_\_\_

major \_\_\_\_\_ year (please circle one) fresh, sophomore, junior, senior, other

if other please explain \_\_\_\_\_ last chemistry course taken (course name) \_\_\_\_\_

when (year, semester) \_\_\_\_\_ where (here, other) \_\_\_\_\_ cumulative GPA \_\_\_\_\_

grade received on last chemistry course \_\_\_\_\_

other science courses taking currently (give course name) \_\_\_\_\_

Are you doing research? (yes, no) If so with whom? \_\_\_\_\_

Why are you taking this class? \_\_\_\_\_

hobbies: \_\_\_\_\_

Feel free to tell me anything else you would like me to know about you: \_\_\_\_\_

\*\*\*\*\* PIN Selection

I \_\_\_\_\_ (sign name) give Dr. Hahn permission to

post my grades by using the PIN # \_\_\_\_\_ for the Spring 2014 semester for CHEM 101

(General Chemistry I Lecture) I may opt out of having my grades posted (Do not use your SS# or

student ID # to ensure the security of your posted grades.) I also [(do) or (do not)] (circle one) give Dr.

Hahn permission to return my actual exam in a self serve fashion in folders

(return inside your manila folder in the hanging file folder by first letter of last name)