

## CHM 111 Fall 2016 General Chemistry I Lecture

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**class time:** 8:00-9:20 am Monday & Wednesday

**office hours:** 9:20 to 10:00 am Tuesday, Thursday; 3:20 to 4:20 pm Monday, Tuesday, Wednesday and 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 most days before & after my classes either in the classroom (SCI 105, SCI 110, Jordan 108) or my office SCI 117. I am also almost always in my office during normal business hours from 9 am to 4 or 5 pm Monday through Friday. I am usually not in my office during lunch time because I usually go to the cafeteria. (Do not follow me to lunch to ask me office hour type questions.) 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 so you can follow me to wherever I am on campus.

**For the Lecture you will need:** (a) **Textbook**, Chemistry, a Molecular Approach (4<sup>th</sup> edition) by Nivaldo Tro (ISBN 978-0-13-411283-1, publisher Pearson) You will also need (b) a **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.

Quizzes and exams (& answer keys) will be posted online at <http://JulietHahn.com> (& on Haiku) after you take the quizzes and exams. I will also post the answer key for quizzes and exams immediately after you take the quizzes and exams on the bulletin board in Science. **I do not allow students to take the same exam or quiz which I gave everyone else at a later time. You can tell because I will post the answer key almost immediately after the quiz or exam.** Please download the blank form of the quiz & work through the quiz to study for the exam. Please download the blank form of the exam & work through the exams 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 General Chemistry I and General Chemistry II (using an earlier edition of the same textbook but at a different university). It is probably a good idea to download all of the old exams from General Chemistry I from Spring 2015 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:** (a) **lab procedure handouts** which I will hand out at least one lab period prior to the lab (b) **scientific calculator** (c) **lab notebook** This should be of the hardbound permanent bound kind that you cannot rip out pages. (d) **safety glasses**: If you want you may want to get your own safety glasses although you may also just use the safety glasses available in the lab class.

Chemistry 111 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 as 25% of the Chemistry 111 lecture grade.

**Grading: Grading will be based on a percentage of 850 total points**

3 exams (100 pts per exam, ~1/3MC, ~1/3SA, ~1/3LA**)	300 pts
final exam (cumulative ~1/3MC, ~1/3 SA, ~1/3 LA**)	100 pts
final exam (ACS standardized exam)	100 pts
3 quizzes (drop 1 quiz, 50 pts each quiz, SA & LA**)	100 pts
lab grade	200 pts
daily <b>HI ☺</b> In class ( <b>HI ☺</b> )	50 pts
(daily <b>HI ☺</b> will always be a ONE multiple choice question which will be open book, open notebook & open neighbor. <b>HI ☺</b> will be 50% turning in some sort of work and 50% getting the correct multiple choice answer. ( <b>Work</b> is defined as NOT simply rewriting the question and showing some sort of work towards the final answer but does not need to be correct.) You MUST turn in <b>HI ☺</b> in class in order for it to count. Once you walk out of the class, the <b>HI ☺</b> will NOT be accepted. You may NOT make up <b>HI ☺</b> however the lowest 25% of your <b>HI ☺</b> points will be dropped. Modified <b>HI ☺</b> questions WILL also show up on the quizzes, exams & final exam)	
<b>Total points</b>	<b>850 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 (i.e. 80% will not be considered to be a C). I do sometimes stretch the lower limits (below C) to your advantage.

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 is also the required general education classes for high paying jobs such as: medical doctor, engineers, pharmacists, research scientists, nurses.** Wouldn't it be great for society as a whole if we could have doctors, engineers, pharmacists, scientists, nurses come from the whole person trained Christian tradition ?

Chemistry 111 is the first semester of a two semester sequence of General Chemistry lecture & lab. 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 & miss all **HI ☺** points (lose 50 points) {50/850 pts}\*100 = 5.8 % pts, ex:74.0 % (C) vs 79.8 % (B) final percentage points with "**attempt points**".] I do not adjust final grades up if you are close to the borderline because I feel that you are a good student (or because I like you). **You** can pull **yourself** up to a higher grade from the borderline by doing all the "**attempt points**" which are all documented by hardcopy evidence.

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 the **HI ☺** 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 & really WORK the **HI ☺** problems, **study the quiz 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 **HI ☺** points)

**Please come to class the lecture between the quiz and the exams.** We will review the quiz and make sure that everyone understands everything on the quiz 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. It is also VERY IMPORTANT to understand the **HI ☺** questions (which will appear on the exams in a modified form).

### **For Missed Exams, Quizzes, Final Exam:** (VERY IMPORTANT)

There will be no makeup exams, quizzes or final exam without a documented excused absence. **There is no make up exam and no make up quiz.** If you miss the **final exam with documentation**, I will give you an incomplete and give you a **make up final exam** which is very different from the final exam which I gave everyone else. I **NEVER** GIVE THE **SAME QUIZ OR EXAM** AFTER I GIVE THE QUIZ OR EXAM TO THE CLASS.

#### **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.) **If you miss none of the exams, I will replace your lowest one (and only one) exam grade by the final exam.** (This assumes that one of your exams was a lower % grade than the final exam.)

**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 (whichever is higher).

2. **Quiz:**

- a. **no documentation excuse:** You will earn a zero for a missed quiz but you get to drop one zero for a missed quiz with no documentation. If you miss no quizzes then you will get to drop your one 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. **Missed HI ☺:** If you miss one of the Homework Inclass days (you turn in nothing – no work and no multiple choice answer), then you will earn a zero on that day's **HI ☺** points. However you get to drop with no documentation and no excuse 25% of your lowest **HI ☺** points. If you miss MORE than 25% of classes and have a valid documented excuse for any of your missed **HI ☺** points, then you can turn in the documentation and your average of your other **HI ☺** points will be plugged in for the documented excused absences.

4 **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 makeup 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** together with the rest of the class. I usually post the hard copy of the answer keys for all quizzes and exams almost immediately after the class has taken the quiz or exam. It takes me at least 2 to 3 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.** Even if you gave a hardcopy of the documentation to some other office, you must give me a copy for my files because excuses are not shared between offices. **Examples of valid excuses** include: medical grounds, death in the immediate family, 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 listing your name or a letter from a professor or coach 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 one lowest quiz grade (1/3 of quiz grades) and one (1/3 of exam grades) lowest grade hour exam grade will be replaced by the final exam grade with no documentation. You will not be allowed to drop the final exam. You can also provide documentation if you miss more than 25% of your **HI** ☺ points.

**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 (1/3MC, 1/3SA, 1/3LA) will have almost identical format. (The ACS Final will be all multiple choice however.) Quizzes will be mostly short answer and long answer. The **HI** ☺ questions will be multiple choice questions with ½ credit for showing work. **\*\*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 similar to the quizzes & **HI** ☺ however you will never get an identical question on an exam which you got on a quiz or **HI** ☺.

When you get back your graded quizzes and exam you will also get an answer key with a list of points for common mistakes. Check your graded exam/quiz against the answer sheet. **Keep in mind that I am grading not just your one exam but also exams for all the other students in General Chemistry, Organic Chemistry and Biochemistry. 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 & **HI** ☺ 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, quiz or **HI** ☺ is returned in writing. Once you leave the class, any requests for regrades will **not** be honored.

**Absences:** If you miss 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.**

**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 10/10 **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) :** You are automatically enrolled in the lab class at the same time as the lecture. **If you miss lab attendance & turn in no required lab work, you will lose 25% of the points for this class.)**

Don't forget you **must** attend the lab class as well as the lecture class otherwise you will earn a zero on 25% of your total points this semester.



Pay attention in class and follow the syllabus. I am the only one who is deciding on how the General Chemistry class is being taught. **Different professors** have **different rules and syllabi**. Rules for a different professor who previously taught this class do not apply to the General Chemistry class this semester. A couple of things to watch out for:

- (a) **One missed exam (no documentation excuse) 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 and 65% on the final exam (300 of 850 total points). 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.
- (b) One missed quiz with (no documentation excuse) is dropped. If you miss a second quiz (without documentation) you will earn a zero on that quiz which will not go away. If you have acceptable documentation for missing a quiz, I will average and plug in a grade for your missed quiz.
- (c) 25% of the **HI ☺** lowest grade will be dropped. If you miss less than 25% of the class attendance this semester, you will earn all of the **HI ☺** points possible. (of course if you get all the **HI ☺** questions wrong and show no work, you will earn zero **HI ☺** points). If you get all of the **HI ☺** multiple choice answer wrong but show work (work can be incorrect but cannot be the same as simply restating the question and must be somewhat related to the question) on all **HI ☺** problems, then you will earn 50% of the **HI ☺** points.

I personally make up all of the exams & I personally grade all of the exams. I never let undergraduates, 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.

**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.

**Suggestion:** Go to **<http://JulietHahn.com>** to download my earlier General Chemistry I Exams & Quizzes to get a preview of what types of exams and quizzes I give. (earlier edition of the same text, different university)

## Syllabus attachment – College Policy on Academic Honesty

### **Purpose**

As a Christian community of faith and scholarship, we at Brewton-Parker College are committed to the principles of truth and honesty in the academic endeavor (2 Timothy 3:16). As faculty and students in this Christian community, we are called to present our academic work as an honest reflection of our abilities; we do not need to defraud members of the community by presenting others' work as our own (Mark 10:17-22). Therefore, academic dishonesty is handled with serious consequences for two fundamental reasons: it is stealing – taking something that is not ours; it is also lying – pretending to be something it is not. In a Christian community, such pretense is not only unnecessary it is also harmful to the individual and community as a whole. Cheating should have no place at a campus where all labors are informed by our faith because God desires us to be truthful with each other concerning our academic abilities. Only with a truthful presentation of our knowledge can there be an honest evaluation of our abilities. To such integrity, we as a Christian academic community are called. The following acts are those which we consider to be dishonest:

### **Plagiarism:**

It is presenting as your own work the words, ideas, opinions, theories, or thoughts of another which are not common knowledge. Students who present others' words or ideas as their own without fair attribution [documentation] are guilty of plagiarizing. Unfair attribution includes, but is not limited to, a direct quotation of all or part of another's words without appropriately identifying the source. It is also unfair attribution to have included a source within a citation page without having carefully cited the source within the text of the document.

Plagiarism also includes, but is not limited to, the following acts when performed without fair attribution: directly quoting all or part of another person's words without quotation marks, as appropriate to the discipline; paraphrasing all or part of another person's words without documentation; stating an idea, theory, or formula as your own when it actually originated with another person; and purchasing (or receiving in any other manner) a term paper or other assignment, which is the work of another person, and submitting that work as if it were one's own.

### **Inappropriate Assistance:**

Giving or receiving assistance that has not been authorized by a faculty member in connection with any exam or academic work is academically dishonest. Students should assume that any assistance on exams, quizzes, lab work, etc., is unauthorized unless the faculty member involved in the exercise has approved it. Examples of prohibited actions include, but are not limited to, the following: copying or allowing others to copy answers to an exam; transmitting; receiving, or in some form obtaining information during an exam which would offer answers within the framework of the material being tested; giving or receiving answers to an exam scheduled for a later time; and completing for others or allowing others to complete for oneself, all or part of an assignment; submitting as a group assignment work which was prepared by less than all of the members of that group. It is the responsibility of the student to inform an instructor of the lack of participation of one member of a group.

### **Lying:**

Offering false information with regard to your performance in academic work is academically dishonest and in opposition to the Christian life. Such activity includes, but is not limited to, the following: giving false reasons for failure to complete an academic assignment; falsifying the results of laboratory work or other data; altering academic work after it has been submitted; altering grades, lab work, or attendance records; falsely signing another person as present when he/she is absent in a class; submitting for academic advancement an assignment which has previously been submitted for academic advancement (unless so authorized by the faculty member supervising the work).

### **Theft:**

Stealing or otherwise taking, in an unauthorized manner, information which relates to academic work is academically dishonest.

### **Procedures:**

First Offense: The student must be advised of the penalty within seven days of the discovery of the Academic Integrity infraction. The student will be issued a grade of zero on the assignment and a mandatory counseling session with a member of the Academic Integrity Advisory Committee will be scheduled within a week of notification of the offense. The professor will inform the Office of the VPA of the offense, and the Vice President for Academics will subsequently maintain the student's Academic Integrity record.

Second Offense: The Office of the VPA will be notified of the offense, and the Professor will issue a grade of zero on the assignment. Upon being informed by the Office of the VPA that this is the second Academic Integrity offense, the student will be dropped from the course and a failing grade will be recorded.

Third Offense: The office of the Vice President of Academics will be notified of the offense, and the Professor will issue a grade of zero on the assignment. Upon being informed by the Office of the VPA that this is the third Academic Integrity offense, the student will be dropped from the course and a failing grade be recorded. The student will be reported to the Dean of Students for disciplinary action to consist of immediate expulsion from the College for a period of one Academic Year. Petition for redress is made to the Appeals Committee.

**Disabilities**

The student has the responsibility of informing Brewton-Parker College, of any disabling condition for which the student will request course modifications. Brewton-Parker College provides academic adjustments and auxiliary aid to individuals with disabilities, as defined under law, who are otherwise qualified to meet the institution's academic requirements. It is the student's choice and responsibility to initiate any request for accommodations. Required documentation must be provided before the college can make accommodations. To communicate a disabling condition and receive the required documentation please contact Dr. Robert Brian by phone at 912-583-3107 or email at [rbrian@bpc.edu](mailto:rbrian@bpc.edu).



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

I have read and understand the policies stated in the syllabus for Dr. Hahn's CHM 111 Lecture class for the Fall semester of 2016. 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 CHM 111 Lecture Fall 2016

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 Fall 2016 semester for CHM 111

(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.