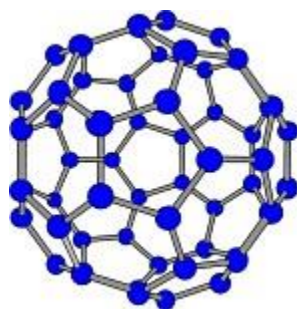


Chemistry 109

Online Students



Carnetta Skipworth
Associate Professor of Chemistry

Let's Have a Ball with Chemistry!

**It is extremely
important for you to
read every word in
the syllabus!!!
Please do not skip
anything.**

CHEMISTRY 109

Instructor: Mrs. Carnetta Jenkins Skipworth
E-mail address: carnetta.skipworth@wku.edu
Office: South Campus 173
Office Phone #: (270) 745-8741
Office Hours: Posted on office door

The best way to get in touch with me is via email. Always include **Chem 109 online** as the subject line of the email. I am available to help you. I check my email several times throughout weekdays. I will help you!!! I typically respond within 48 hours during weekdays. I may respond on the weekend but I don't guarantee it. If you haven't heard from me in 2-3 days, e-mail again with **Chem 109 online** in the subject area. Do not use "text talk" when sending emails.

It is very important that students read the Professor's documents, materials, and information carefully. Do NOT skip anything! Read every word.

All work in this course must be your work! Students who cheat and/or plagiarize will be given an F for the course.

Please, please, please feel free to ask me questions. I am here to help you!

Technology Requirements:

Technology is used in this course. **I cannot answer your technology questions. The WKU IT Help Desk number is 270-745-7000. The McGraw Hill Tech Support is 1-800-331-5094.**

Study Time:

Please realize this course requires a large amount of study time. This course is a four credit hour course; therefore, it is more time demanding than a normal three credit hour course. **You should read your lecture notes/PowerPoints and the book chapters corresponding to your lecture notes/PowerPoints. You should also watch all my videos. The documents or PowerPoints used in the videos are not available. Refer to the study tips listed later in the syllabus for a more detailed description on studying for the course.**

Course Description:

Chem 109 is a course designed to emphasize the practical aspects on inorganic, organic and biochemistry as related to human health. The course is offered specifically for students in the allied health programs, but is also recommended for students in physical education, recreation, health and safety and other disciplines dealing with human health. It does not count toward a major or minor in chemistry, but does satisfy a general education requirement (Colonnade Category: E-NS and Former Gen Ed Category: D1. No laboratory accompanies this course.

University General Education Goal:

The course fulfills the E-NS Colonnade requirement and the D.1. (Science) former general education requirement. It will help you attain an understanding of the scientific method and will give you knowledge of a natural science and its relevance in our lives.

Through coursework, literature research, and other class activities Chemistry 109 helps to improve the quality of life of citizens by elucidating the steps of the scientific method and giving the opportunity to realize the significance of chemistry in the medical field and in our lives.

Text Information: DO NOT PURCHASE THIS BOOK UNTIL AFTER YOU READ THIS INFORMATION! The book is *Principles of General, Organic, and Biological Chemistry*, 2nd edition, Author: Smith. WKU bookstore has partnered with McGraw Hill to offer your course materials through Blackboard via an electronic textbook and online homework system (LearnSmart and Connect). There will not be an access code associated with these materials so you will only need to visit the on-campus bookstore if you want a printed copy of the textbook. The access to the book and online homework is automatic in Blackboard. You will click on the LearnSmart and Connect Assignment link in Blackboard. Click on an assignment, and the registration process will begin. The bookstore will send you a bill for the price of the book (\$83). The price of the loose leaf book is \$20 at the bookstore. The loose leaf book is not required. You only need to purchase it if you would like a hard copy of the book. The ebook and online homework are required.

Calculator:

A calculator with a scientific notation function is also required. You may not use a graphing calculator. I suggest using one of the following calculators:

Texas Instrument 30xs, 30XA , or 30xx IIs

Here is a math problem to complete on your calculator. **Make sure you are getting the correct answer! I do not want you to get incorrect answers on an exam due to calculator issues. You may need to refer to your calculator's instruction book for information on how to correctly key in this problem. Hint: Most calculators do not want you to actually push (x 10). There is typically a button on the calculator to use.**

Scientific Notation

$$5.22 \times 10^{22} / 6.02 \times 10^{23} = 0.086$$

Lecture Notes:

I have provided lecture notes/PowerPoints on blackboard. Make sure to use these lecture notes as you are studying for each chapter.

Sample Problems:

Your author provides sample problems throughout each chapter. The sample problems have each problem worked out for you. Completing these problems is an important part of the learning process.

Evaluation:

Exams – There will be six exams (including the final exam). A portion of the final exam will be comprehensive. Exams include a combination of multiple choice, completion, problem solving, and short answer/essay questions. Exams are worth 100 points. All exams will be taken at a testing center. Please go to <http://www.wku.edu/testing> to find out how to schedule an exam. If you are not near the Bowling Green, KY area, the WKU Testing Center website gives you information on how to schedule an exam at a different proctored location. The testing center will provide you with a “cheat sheet” for use during the exam. You can find the “cheat sheet” under the exam button on blackboard. Please look at the “cheat sheet” so you will know the items you will be given for each exam. You may also use a non-graphing calculator during the exam. You may not use your cell phone as a calculator at any time in the course. Exams will cover text, lecture material/problems that I present (even if it is not in the text), homework supplements, LearnSmart/Connect homework assignments, and exam sample questions/study guide. Please check the calendar for test due dates. You may take exams early. I will post the exams as soon as I have them prepared. Do not pay attention to the due date given by the testing center!

Exam 1: Scientific Method, Chapters 1 and 2

Exam 2: Chapters 3 and 9

Exam 3: Chapters 4, 5, and 6

Exam 4: Chapters 7 and 8

Exam 5: Chapters 10, 11, 12, and 14

Exam 6: Chapter 16 and

comprehensive information over all chapters

Do not share your answers or the questions with other students in the course. This type of sharing/getting answers is a form of cheating and will result in a student receiving an F for the course. Also, do not use the internet in order to obtain answers to exam questions. This action is a form of cheating and will result in a student receiving an F for the course.

Exam Cheat Sheet: I will provide an exam cheat sheet for you; therefore, you do not have to provide your own ☺. Please look at the cheat sheet under the exam button on blackboard. This cheat sheet will be provided to you during every exam. I suggest using it while you complete your homework so you get familiar with using it.

Note to students concerning exams: Statistics reveal there is not one exam more difficult than another. Many students will do great on exam 1; however, will struggle with exam 4 or vice versa. Please make sure to study hard for every exam!

Learn Smart and Connect Homework – Completing homework is crucial for your success in chemistry. You will have a Learn Smart assignment that should be completed before we begin each chapter. This assignment will require you to read the chapter and answer questions to prepare you for the upcoming lecture. Refer to the calendar for Learn/Smart and Connect Assignment due dates. Most Learn Smart assignments are worth 5 points. Most Connect Homework assignments are worth 10 points.

Homework Supplements – There will be homework supplements for most chapters on Blackboard. Homework supplements are typically easier than Connect homework. They should be completed first followed by Connect. The homework supplement answers are also on Blackboard.

Elements – Please know the names and element symbols of the first 18 elements on the periodic table. There will not be a quiz over the names and symbols; however, I will expect that you know them throughout the semester.

Videos: I have made videos associated with many (NOT ALL) topics covered. Please watch the videos. I would not take the time to make them if I didn't feel they are important. Please realize I am not a professional videographer; therefore, you may hear a phone ringing, etc. Please use the “disruptions” as comedy relief for you ☺. The videos are not in the same order as your lecture notes. You can make the screen larger by clicking on the top right button (I think). Just push ESC to minimize the screen. **The documents or PowerPoints used in the videos are not available.** Please call the IT Help Desk 270-745-7000 if you have problems viewing these videos.

Grades: Grades will be assigned based on the percent total of points earned. The university grading scale will be used to assign grades (A=90-100%, B =80-89%, C=70-79%, D=60-69%, F=59% and below). I will not curve final course grades. Your course grade will be the grade you earned throughout the semester.

E-Mail Addresses: All students are required to have an active e-mail account that is listed as their preferred e-mail address under TopNet. Class announcements, homework assignments, etc. may be distributed by this method.

Blackboard: Students should be able to use Blackboard. Class materials will be distributed by this method.

Student Learning Objectives:

- Students will gain problem solving skills to use throughout this course, other courses, and life.
- Students will be able to understand the scientific method.
- Students will be able to understand the concept of an atom and the importance of the periodic table

- Students will gain a basic understanding of organic and biological chemistry.
- Students will be able to realize the significance of chemistry in our society and in the health field.

Topics Covered:

- Matter and Measurement (Clinical Conversions and Temperature)
- Atoms and the Periodic Table
- Ionic and Covalent Compounds
- Energy and Matter
- Chemical Reactions
- Gases (Respiration, Partial Pressure)
- Solutions (Osmosis and Dialysis)
- Acids and Bases (Blood Buffers, Acidosis/Alkalosis)
- Nuclear Chemistry (Medical Isotopes, PET, CT, XRAY, etc.)
- Organic Chemistry (Saturated and Unsaturated Hydrocarbons, fatty acids, oral contraceptives, structure of medication, phenols - antioxidants)
- Organic Compounds Containing Oxygen, Halogen, and Sulfur
- Carboxylic Acids, Esters, Amines, Amides (antiseptics, anesthetics)
- Carbohydrates (starch, fiber, artificial sweeteners)
- Lipids
- Amino Acids, Proteins, and Enzymes (Disease diagnosis, vitamins)

Students with disabilities: In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Disability Services in DUC A-200 of the Student Success Center in Downing University Center. Please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.

Learning Assistance/Tutoring: Alice Rowe Learning Assistance Center (LAC): The LAC is located in the Preston Success Center, room C234 at South Campus. The LAC also has computers for academic use, calculators and textbooks for checkout, as well as offering a variety of other services. For more information, check out our website: <http://www.bgcc.wku.edu/LearningAssistanceCenter.htm> or phone us at (270)780-2536. **Brianna Stephens is the summer tutor in the LAC at South Campus. She is available Monday, Thursday, and Friday. She will be out of town the first week in June. She will only be available in the afternoon starting June 6. You can call to confirm her tutoring times.**

The Chemistry Tutoring Center is located in TCCW 125B.

Instructor reserves the right to make changes to the syllabus at any time during the semester.

Study Tips

1. Complete Learn Smart assignment (requires the reading of each chapter).
2. Read/review PowerPoint lecture notes. Watch videos associated with each section.
3. Complete Homework Supplement.
4. Complete Connect assignment.
5. Possibly complete homework in book if you are still unsure of the material. Selected answers are at the end of each chapter. Sample problems throughout each chapter are also great questions to use for review. The answers worked out with the problems.
6. Complete questions listed at end of PowerPoint lecture notes (if available) and exam sample questions/study guide.
7. Review all information to get ready for the exam.

Please study every day. Do not wait until the day before the exam to study.

Course Calendar

Exams must be taken at a testing center. All exams will be open as soon as they are prepared; therefore, I have only put the date that the exam will close. Make sure to have the exam completed by the closing date. Contact the testing center early to make sure there is a spot available for you to test.

Do not share exam questions and/or answers with anyone!!!

Cheating will not be tolerated.

Week Number	Due Date	Assignment
1	Wed, May 18 Fri, May 20	LearnSmart Chpt 1 and Discussion Bd. Question Connect Chpt 1
2	Wed, May 25 Fri, May 27 Sat, May 28	LearnSmart Chpt 2 Connect Chpt 2 Exam 1 (Chpts 1 & 2)
3	Wed, June 1 Fri, June 3 Sat, June 4	LearnSmart Chpt 3 & 9 Connect Chpt 3 & 9 Exam 2 (Chpt 3 & 9)
4	Wed, June 8 Fri, June 10	LearnSmart Chpt 4 & 5 Connect Chpt 4 & 5
5	Wed, June 15 Fri, June 17 Sat, June 18	LearnSmart Chpt 6 Connect Chpt 6 Exam 3 (Chpt 4, 5, and 6)
6	Wed, June 22 Fri, June 24 Sat, June 25	LearnSmart Chpt 7 & 8 Connect Chpt 7&8 Exam 4 (Chpt 7&8)

7	Wed, June 29 Fri, July 1 Sat, July 2	LearnSmart Chpt 10/11 (organic), 12, 14 Connect Chpt 10/11 (organic), 12 Exam 5 (Chpt 10/11 (organic), 12, 14)
8	Wed, July 6 Fri, July 8	LearnSmart Chpt 16 Exam 6 (Chpt 16 and comprehensive over entire course)