

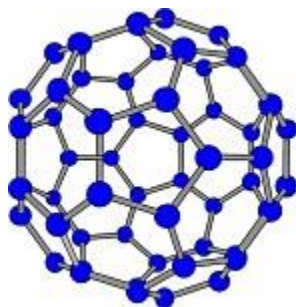
Testing Information:

You are required to take exams at an approved testing center. The WKU Testing Center is free of charge. Other testing centers may charge for this service. There are six exams in this course. I would be willing to combine exams for out of town students if these students wanted to reduce their cost of the testing center service. I do not suggest combining exams due to the abundance of content on each exam; however, I am more than glad to work with my students. I look forward to having you in class.

**Self-motivated requirement:** You must be a self-motivated student to be successful in this course and will need the discipline to “make” yourself study as you would a face-to-face section of the course. You will be using my PowerPoint documents, my videos, and the textbook to learn the course information. You will be completing approximately two online homework assignments per chapter as well as completing additional problems for practice. Please only register for this course if you are a self-motivated learner.

# 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: Professor Carnetta Skipworth  
E-mail address: [carnetta.skipworth@wku.edu](mailto:carnetta.skipworth@wku.edu)  
Office: KTH 4043

Office Phone #: (270) 745-8741  
Office Hours: Posted on Office Door

The best way to get in touch with me is via email. Emails must be in the following format:

- Email subject line - Must state the class (Chem 109 online) followed by one of the following categories: grading, attendance, miscellaneous, appointment, blackboard, homework, etc.
- Salutation – Professor Skipworth
- Body of email – Brief statement/description of your question/request
- Closing – Your name and 800 #

Any email not received in this format will not be answered. Anything that can be answered by looking at your syllabus will receive the reply, “see syllabus”. 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 line. *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 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.**

Text Information: Principles of General, Organic, and Biological Chemistry, 2<sup>nd</sup> edition, Author: Smith. You are required to have access to Connect Plus through McGraw Hill for our book. Connect Plus comes with an ebook. You already have access to the ebook and Connect Plus through my Blackboard site. Please follow the instructions below in red to register. The WKU bookstore will send you a bill for the ebook and ConnectPlus in a few days. You can purchase a loose-leaf hard copy (one to hold in your hand) through McGraw Hill or the WKU bookstore. You will be reading the book; therefore, you will want to purchase a hard copy of the book if you do not like reading online. McGraw Hill's Technical Support is 18003315094. Unfortunately, I can't help you with technical issues.

### Student Registration for Connect through Blackboard

- Sign into your school's Blackboard.
- Go to your instructor's course.
- Go to the "Tools" menu.
- Click on the "McGraw-Hill Education" link.
- Below "My Connect Section", click **Go to My Connect Section**.
- Follow the on-screen instructions to register.

McGraw Hill Tech Support: 1-800-331-5094

Information from WKU bookstore in regard to your textbook:

Around two weeks into the semester after drop/add period, you will be billed the cost of materials for the course. Each student will have access to all course materials from day one. If you choose to drop the course during the regular add-drop period you will not be charged for the online portion of the material. You should note that for this course, you **WILL BE CHARGED** for the digital materials.

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: Many 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 book 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. 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.

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 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.

Learning Assistance/Tutoring: Alice Rowe Learning Assistance Center (LAC): The LAC is 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, look at their website: <http://www.bgcc.wku.edu/LearningAssistanceCenter.htm> or call them at (270)780-2536.

The Chemistry Tutoring Center is location on WKU's main campus. Exact location TBA.

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)

#### 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.*

#### **Academic Misconduct (Excerpt from the WKU Student Handbook):**

**The University expects students to operate with the highest standard of integrity in all facets of the collegiate experience. Broadly defined, academic misconduct is any unethical self-serving action in the performance of an academic activity, deliberate or unintentional, that affords a student an unfair, unearned, or undeserved advantage.**

**Any incident of cheating will result in the student being assigned an F for the course.**

ADA Accommodation: In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004

[270-745-3030 TTY] or via email at [sarc.connect@wku.edu](mailto:sarc.connect@wku.edu) . Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

Title IX Discrimination and Harassment: Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at <https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf> and Discrimination and Harassment Policy (#0.2040) at [https://wku.edu/policies/hr\\_policies/2040\\_discrimination\\_harassment\\_policy.pdf](https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf). Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121. Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are "Responsible Employees" of the University and MUST report what you share to WKU's Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's [Counseling and Testing Center](#) at 270-745-3159.

Other syllabus information can be found at <http://www.wku.edu/syllabusinfo/>.

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 are 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.

# Chem 109 Calendar

Do not pay attention to the LearnSmart and Connect Assignment due dates listed on the McGraw Hill website or the due dates listed on the testing center website! Refer to this calendar for all due dates. All exams must be taken at a testing center. **You may complete assignments/exams early if they are available.**

Week #			Assignment/Exam Due
1	30-Jan	Thur	LearnSmart, Chapter 1
1	31-Jan	Fri	Connect Assignment, Chapter 1 and Email Instructor Assgmnmt
2	3-Feb	Mon	LearnSmart, Chapter 2
2	6-Feb	Thur	Connect Assignment, Chapter 2
<b>3</b>	<b>15-Feb</b>	<b>Sat</b>	<b>Exam 1 (Chapters 1 and 2)</b>
4	17-Feb	Mon	LearnSmart, Chapter 3
4	20-Feb	Thur	Connect Assignment, Chapter 3
5	24-Feb	Mon	LearnSmart, Chapter 9
5	27-Feb	Thur	Connect Assignment, Chapter 9
<b>5</b>	<b>29-Feb</b>	<b>Sat</b>	<b>Exam 2 (Chapters 3 and 9)</b>
6	2-Mar	Mon	LearnSmart, Chapter 4
6	5-Mar	Thur	Connect Assignment, Chapter 4
7			Spring Break - No Assignments Due
8	16-Mar	Mon	LearnSmart, Chapter 5
8	19-Mar	Thur	Connect Assignment, Chapter 5
9	23-Mar	Mon	LearnSmart, Chapter 6
9	26-Mar	Thur	Connect Assignment, Chapter 6
<b>9</b>	<b>28-Mar</b>	<b>Sat</b>	<b>Exam 3 (Chapters 4, 5, and 6)</b>
10	30-Mar	Mon	LearnSmart, Chapter 7
10	2-Apr	Thur	Connect, Chapter 7
11	6-Apr	Mon	LearnSmart, Chapter 8
11	9-Apr	Thur	Connect, Chapter 8
<b>11</b>	<b>11-Apr</b>	<b>Sat</b>	<b>Exam 4 (Chapters 7 and 8)</b>
12	13-Apr	Mon	Chapter 10/11 LearnSmart
12	16-Apr	Thur	Connect Assignment, Chapter 10/11
13	20-Apr	Mon	LearnSmart, Chapter 12 and 14
13	23-Apr	Thur	Connect Assignment, Chapter 12 (No assignment, chapter 14)
<b>14</b>	<b>2-May</b>	<b>Sat</b>	<b>Exam 5 (Chapters 10, 11, 12 and 14)</b>
15	4-May	Mon	LearnSmart, Chapter 16
15			There is no Connect Assignment for chapter 16
<b>16</b>	<b>13-May</b>	<b>WED</b>	<b>Final Exam (Chapter 16 and comprehensive over all chapters)</b>