

# CHEMISTRY 101 On Demand– Syllabus and Calendar

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**Office Hours:** Posted on Office Door

## Contacting Me:

**The best way to get in touch with me** is through email. **Always include “Chem 101 online On Demand” 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. If you haven't heard from me in 2-3 days, e-mail again with “Chem 101 online On Demand” in the subject area.

**Prerequisites:** None

## Text and Materials:

- Chem2 with OWLv2. Western Kentucky University has partnered with our on-campus bookstore and Cengage Learning to offer your course materials through Blackboard via an electronic textbook and OWLV2 homework materials. 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 to purchase a printed copy of the textbook. The access to OWLV2 is automatic in Blackboard. Students will click the link to “ebook and OWLv2” within Blackboard, which will automatically open up without requiring an access code. Students are billed by the bookstore after the date when students can add or drop the course. The publisher calls the ebook the “MindTap reader.” Call 1.800.423.0563 for [technical assistance](#) with OwlV2 or use the following address: <http://support.cengage.com/magellan/ClassLandingPage.aspx?OptyId=1077110>. Professor Skipworth can't answer technology questions.
- Goggles

*Information from WKU bookstore in regard to your textbook:*

*Our department at WKU has worked together to reduce the price of course materials for students. In order to save you money, maximize your effective use of your textbook, increase learning and evaluate the best ways of teaching you difficult topics, we have entered into a partnership with Cengage.*

*By enrolling in this course, you agree to purchase the digital materials associated with this course. These materials include a 6 to 24 month (depending on the course) access to online homework where appropriate, a downloadable e-copy of the textbook, and the option to purchase a loose leaf copy of your textbook at a greatly reduced cost. The cost per text is about 35% to 50% the cost of purchasing a new textbook, even before purchasing online materials. **If you would like to purchase a printed copy at a reduced price, you must order it through The WKU Store during the first week of class.***

*In order to make these savings available to you, we have partnered with The WKU Store to streamline the delivery process. As a result, 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. Please **DO NOT** buy a copy of the book from online or local vendors. **ONLY** the digital format is required for use in this course.*

## **Learning Objectives:**

Upon completion of this course you will be able to:

- Apply the scientific method to laboratory experiments and other issues
- Use the periodic table and explain matter and its properties
- Explain and differentiate between the components of a chemical reaction
- Distinguish between several types of chemistry such as nuclear, organic, and water chemistry
- Recognize the importance of chemistry in our society

## **Things You Need To Know To Be Successful In This Course:**

- It is very important students read the instructor's documents, materials, and information carefully. **Do NOT skip anything! Read every word.**
- Students should have regular access to a computer with Microsoft Word.
- Check your WKU TopperMail at least once a week. I would suggest checking it more often.
- The course format for any text documents (from me or from you) is Word doc or rtf. You may have to save my files before opening it with some computer configurations.
- All work in this course must be your work! Students who cheat and plagiarize will be given an F for the course.
- There will be no synchronous (face-to-face) class meeting times. You can complete the work during your own schedule as long as you complete all assignments by your On Demand course expire date.

## How You'll Be Graded:

### 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

Your grade can be calculated by adding your points earned, divide by the points possible and multiply by 100.

Points are given for all homework assignments, other assignments, lab portfolio, and exams as follows:

Syllabus Quiz	5 points
Email Your Instructor Assignment	5 points
Chapter Homework (11 chapter homework assignments)	165 points total (each chapter homework is worth 15 points)
Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Exam 4 (final exam)	100 points
Lab Portfolio	100 points
Water Treatment Assignment	10 points
Total	685 points

**Chapter Homework: You are required to complete chapter homework using Owlv2. Each homework assignment is worth 15 points and can be found under the "ebook and Owlv2" button in Blackboard. You will be completing the EOC (End of Chapter) Homework Assignments in Owlv2.**

You may use your book and lecture notes to complete the homework assignments. You may NOT use the help of people (including classmates) to answer any questions. The homework questions will help prepare you for the exam. Owlv2 offers multimedia and mastery questions for you to use as review. These questions are not graded. Call 1.800.423.0563 for technical assistance with Owlv2. Professor Skipworth can't answer technology questions.

**Exams:** There will be a total of 4 exams. Exams are worth 100 pts. each. The majority of your grade will be based on these exams.

Exam 1: Chapters 1, 2, and 3

Exam 2: Chapters 13, 5, and 8

Exam 3: Chapters 9, 10, and 11

Exam 4: Chapters 12, 14, and comprehensive (covering all previous chapters)

It is very important to read the book chapters, study the lecture note PowerPoints, and complete the homework assignments to be prepared for the exams. Owl2 also provides study tools for each chapter.

**Exams 1, 2, and 3 can be taken on your own computer. Exam 4 must be taken at an approved testing center. The WKU Testing Center is free of charge. Other testing centers may charge for this service.** Each exam will have a time limit. Exams will consist of multiple choice, true/false, and short answer questions. You are not allowed to receive classmates or any person's help while completing these exams. You will not have time to look up every answer to every question. You should study for the exam as if you were taking it in a classroom situation. You will see one question at a time and will not be able to go back to a previous question after submitting the answer.

You will be given 60 minutes to complete each exam. You will be required to complete the exam when you open it. You will not be allowed to close the exam and return later. You **MUST** make sure to have a good internet connection when you open the exam. **I will not reset exams in case of an internet malfunction.** If you do not feel comfortable with your internet connection please contact the [WKU Testing Center](http://www.wku.edu/testing) (www.wku.edu/testing) to schedule a proctored exam. You will not be able to see your incorrect questions once you submit your exam due to dishonesty issues.

Do not share exam questions and/or answers with anyone!!! Cheating will not be tolerated.

**Lab Portfolio** – You are required to complete 5 labs, and complete a lab portfolio during the course. All lab information can be found in the Assignments button in Blackboard.

You will be required to purchase several materials for this portion of the course. A list of items needed for each lab is in the lab document on Blackboard. You can't pass the course without completing this project due to WKU's Colonnade requirements. This exercise is worth 100 pts. I suggest spacing the labs out over the entire course. I do not suggest waiting to complete all of the labs at one time. Do not submit the labs to me individually. You will be submitting the labs to me as one document via the Blackboard assignment link. **DO NOT EMAIL THE LABORATORY PORTFOLIO TO ME!** Use the template I provided on Blackboard when submitting the laboratory portfolio.

**Lab Project Safety** - Safety is an issue when completing any lab. You will need to purchase a pair of goggles to wear during all labs. You can purchase the goggles at the university bookstore or any department store. Please choose the goggles that make a complete seal around your eyes. Below is a picture of the style of goggles you will need.



### **Lab Safety Rules - For your own safety, you must...**

- Wear safety goggles at all times
- Dress with safety in mind (no loose clothing, open toed shoes, dangling jewelry)
- Tie up loose, long hair
- Never eat, drink, chew gum or use tobacco products while completing a lab
- Always think about what you are doing at all times
- Have a fire extinguisher available when using a flame.
- Use special caution when dealing with a glass material or a sharp object.

**Additional Assignments** - You are required to complete additional assignments. The assignments include:

- Email Your Professor (Start Here option in Blackboard)
- Water Treatment Assignment (Assignments option in Blackboard)

### **Technology Requirements:**

- Regular access to a high-speed internet connection
- Regular access to Microsoft Word
- Current version of Blackboard compatible internet browser, such as Firefox, Google Chrome, Safari or Internet Explorer. NOTE: You may have issues viewing Mediasite videos in Internet Explorer.
- Access to your TopperMail account
- The course format for any text documents (from me or from you) is Word doc or rtf. You may have to save my files before opening it with some computer configurations.
- I cannot answer your technology questions. The WKU IT Help Desk number is 270-745-7000.
- Call 1.800.423.0563 for technical assistance with OwlV2.

### **E-Mail Addresses:**

All students are required to have an active e-mail account listed as their preferred e-mail address under TopNet and Blackboard.

### **Plagiarism:**

Plagiarism is not acceptable. Students who are found plagiarizing will be giving an F for the assignment.

**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.

The U.S. Department of Education requires that distance education courses must include regular and substantive interaction between students and faculty. For more information about Regular and Substantive Interaction at WKU, please visit the [Regular and Substantive Interaction in Online and Distance Learning webpage](#).

In this course, regular and substantive interaction will take place in the following ways:

- You will receive weekly (or more frequent) announcements from me.
- I will provide information and will respond to questions about the content of the course.

- Assignment and assessment deadlines are spread throughout the term of our course.
- Welcome message with course description and learning outcomes listed in the syllabus.
- Suggested course schedule to successfully complete a self-paced, On Demand course within a specific timeframe.
- Student expectations and study tips to enhance student success in this course.
- Communication and interaction via email along with expected response of 48 hours listed in syllabus.
- Office Hours posted within the course.
- Direct Video Instruction for each chapter (14 chapters total)
- A lab portfolio including a total of 5 labs, and a written paper assignment requiring grades / feedback.
- All graded assignments will be graded within a 2-week period, with feedback.

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.

## **Course Description:**

A one semester terminal course covering applied chemistry and environmental considerations which can be used for general education requirements in the science field for non-science majors and minors. In-class laboratory constitutes 20 percent of class. It does not count toward a major or minor in chemistry nor does it satisfy the requirements for certain home economics and agriculture majors.

## **University General Education Goal:**

The course fulfills the WKU Colonnade Category E-NS E-SL and WKU Old General Education Category D1 DL.

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 laboratory experiences the Chemistry 101 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 our lives.*

## **Chem 101 Online Study Tips**

1. Make a study calendar, and do not wait until the due date to begin studying and/or completing assignments. Space your study time over each day so you are not overwhelmed with the material.
2. Read the chapter.
3. Read and learn the PowerPoints associated with each chapter.
4. Watch any videos I made describing specific course topics.

5. Complete the OWLv2 assignment with each chapter.
6. Complete the odd problems in the book if need more review. The answers to the odd problems are at the end of the book. The book chapters also contain examples with solutions that are helpful study tools.

<b>Chem 101 On Demand Calendar</b> <b>Week Number:</b>	<b>What to do this week: Chapter Homework, Assignments, Labs, and Exams</b>	<b>Due Date:</b> This calendar will cover a normal semester at WKU. I suggest making your own due dates and adhering to your own calendar.
Week 1	<ul style="list-style-type: none"> <li>○ Read the Syllabus</li> <li>○ Syllabus Quiz</li> <li>○ Email Your Instructor Assignment</li> </ul>	
Week 2	<ul style="list-style-type: none"> <li>○ Read Chapters 1 (Living in a World of chemistry) and 2 (Chemical View of Matter), review the PowerPoints</li> <li>○ Intro: Working with Owl Assignment, Intro: Non-master Assignment, and Chapter 2 OWLv2 Homework</li> </ul>	Chapter 2 – omit unit conversions
Week 3	<ul style="list-style-type: none"> <li>○ Read Chapter 3 (Atoms and the Periodic Table), review the PowerPoint</li> <li>○ Chapter 3 OWLv2 Homework</li> <li>○ Complete Glue Lab – save to submit with the entire Lab Portfolio Assignment</li> </ul>	
Week 4	<ul style="list-style-type: none"> <li>○ Exam 1 (Chapters 1, 2, and 3)</li> </ul>	
Week 5	<ul style="list-style-type: none"> <li>○ Read Chapter 13 (Nuclear Changes and Nuclear Power), review the PowerPoint</li> <li>○ Chapter 13 OWLv2 Homework</li> </ul>	
Week 6	<ul style="list-style-type: none"> <li>○ Read Chapter 5 (Chemical Bonding and States of Matter), review the PowerPoint</li> <li>○ Chapter 5 OWLv2 Homework</li> <li>○ Complete Candy Chromatography Lab– save to submit with the entire Lab Portfolio Assignment</li> </ul>	
Week 7	<ul style="list-style-type: none"> <li>○ Read Chapter 8 (Chemical Reactivity: Chemicals in Action), review the PowerPoint</li> <li>○ Chapter 8 OWLv2 Homework</li> <li>○ Complete Iron Lab– save to submit with the entire Lab Portfolio Assignment</li> </ul>	
Week 8	Exam 2 (Chapters 13, 5, and 8)	

Week 9	<ul style="list-style-type: none"> <li>○ Read 9 (Acid-Base Reactions), review the PowerPoint</li> <li>○ Chapter 9 OWLv2 Homework</li> <li>○ Complete pH Lab – save to submit with the entire Lab Portfolio Assignment</li> </ul>	
Week 10	<ul style="list-style-type: none"> <li>○ Read Chapter 10 (Oxidation-Reduction Reactions), review the PowerPoint</li> <li>○ Chapter 10 OWLv2 Homework</li> </ul>	
Week 11	<ul style="list-style-type: none"> <li>○ Read Chapter 11 (Water, Water, Everywhere), review the PowerPoint</li> <li>○ Chapter 11 OWLv2 Homework</li> <li>○ Water Treatment Assignment</li> <li>○ Exam 3 (Chapters 9, 10, and 11)</li> </ul>	
Week 12	<ul style="list-style-type: none"> <li>○ Read Chapter 12 (Energy and Hydrocarbons), review the PowerPoint</li> <li>○ Chapter 12 OWLv2 Homework</li> <li>○ Complete Scientific Method and Polymer Lab– save to submit with the entire Lab Portfolio Assignment</li> <li>○ Laboratory Portfolio (entire assignment due)</li> </ul>	
Week 13	<ul style="list-style-type: none"> <li>○ Read Chapter 14 (Organic Chemicals and Polymers), review the PowerPoint</li> <li>○ Chapter 14 OWLv2 Homework</li> </ul>	
Week 14	Final Exam (comprehensive)	