

## Sp22 CHEM 101 001 APPLYING CHEMISTRY TO SOCIETY

1<sup>st</sup> Half semester

Jan 10-Feb 22

CRN 14262

Course Credit Hours: 3

Instructor: Kristen Kull

Office: Sims 107B (Due to health precautions, meeting will not be held here)

**Individual/Virtual Meeting** Arrange via Blackboard E-mail, not Winthrop e-mail

E-mail: [kullk@winthrop.edu](mailto:kullk@winthrop.edu)

Phone: 323-4921

### Virtual Office Hours\*

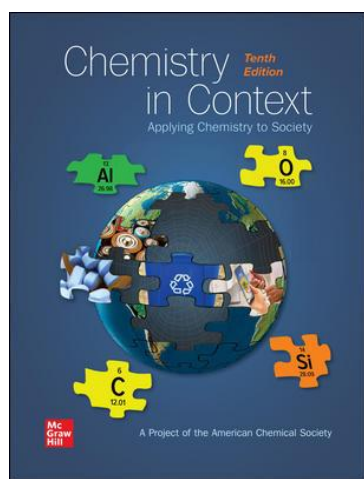
Day	Time	Course	
Tuesday	1:30-3:00 pm	All	<a href="#"><u>Zoom</u></a> <sup>@</sup>
Thursday	10:00am-11:00 am	All	
Friday	10:00 am-11:00 am	All	
Or by appointment; send email and include phone number and 3 dates/times available to "meet"		All	
<b>*Dates and times subject to changed due to use, student input, and instructor conflict. For example, a medical appointment on my part may cause cancellation of a single session. If there is poor or lacking attendance, a whole session may be changed or deleted for the semester or increased based on student requests.</b>			

@ <https://winthrop-edu.zoom.us/j/87874750313>

### Course Materials

**Calculator:** A basic scientific calculator or graphing calculators (one with exponential notation, logarithms, and orders of operation) is necessary for all quizzes and exams.

**Text:** McGraw-Hill **Connect access** with **Chemistry in Context, 10 ed. eBook.**



### Chemistry in Context

10<sup>th</sup> Edition

By American Chemical Society

ISBN10: 1260240843

ISBN13: 9781260240849

Copyright: 2021

[Read more +](#)

**The code for Connect must be purchased.**

A hardcopy of the 10ed text is optional. A package deal for Connect and a hard copy of the text is available, but its purchase is optional.

The Goal of this successful, issues-based textbook is to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and significant issues facing science. Connect: A highly reliable, easy-to-use homework and learning management solution. The non-traditional approach reflects today's technological issues and chemistry principles.

## **STUDENT INSTRUCTIONS**

Accessing course material requires purchasing the Connect for ACS, 10<sup>th</sup> Edition **code**. Obtain from the bookstore or directly from the publisher. **Go through Blackboard Chem101 to get assignments and access to Connect.** Open the first assignment and you will be directed to the external publisher's link. On your first login, you will be asked to input your code or purchase one at this time.

This price includes the e-book and all assignments. If you wish to have a paper copy, there is also a package deal which includes Connect, a paper copy, and the e-book.

Access to assignments will only be available through Bb course links.

**Time Commitment:** This course requires weekly participation.

## **Communication**

**Requirements for Communicating Through Email, Blackboard Email:** You are required to use your **Winthrop University email address** when communicating with me or classmates through email. All communications about this course will be sent by me to your Winthrop email address. When sending me an email, please use "**CHEM 101, Section 001**" in the subject line. If you use another email account, it is possible that your email will go to my junk folder.

**Questions:** If you have a question that other learners may have, post your question on the **Ask a Question Discussion Board** page in Blackboard. For private communication, please email me through Blackboard. Messages sent through Winthrop e-mail may get lost or buried.

**Expected Response Time:** I will respond to emails within one-two business days. If you send an email over the weekend and do not get a reply, I will respond first thing Monday morning. If you do not get acknowledgement within one business day, please email me again.

**Students with Disabilities/Need of Accommodations for Access:** Winthrop University is committed to providing access to education. If you have a condition which may adversely impact your ability to access academics and/or campus life, and you require specific accommodations to complete this course, contact the Office of Accessibility (OA) at 803-323-3290, or, [accessibility@winthrop.edu](mailto:accessibility@winthrop.edu), as early as possible to discuss your concerns.

## **Course Management**

**Campus Resources:** Any student enrolled in courses at Winthrop regardless of modality (traditional in-person, online, hybrid, ...) is entitled access to all campus resources. These resources include, but are not limited to, admissions counseling, recreational facilities, and health, library, and academic services. Questions regarding access to these resources should be directed to the assigned academic advisor.

**Course Withdrawal:** See schedule for the last day to S/U or W/D this course. *Students may not withdraw from a course after this date without documented extenuating circumstances.*

**Academic Success Center:** Winthrop Academic Success Center is a free resource for all undergraduate students seeking to perform their best academically. The ASC offers a variety of personalized and structured resources that help students achieve academic excellence, such as tutoring, academic skill development (test taking strategies, time management counseling, and study techniques), and group/individual study spaces. The ASC is located on the first floor of Dinkins, Suite 106. Tutoring for this specific course is offered through the office. If you wish to request a tutor, you must attend ONE Tutee Seminar, offered every Friday. Please contact the ASC at 803-323-3929 or [success@winthrop.edu](mailto:success@winthrop.edu) if you have any questions. For more information on ASC services, please visit [www.winthrop.edu/success](http://www.winthrop.edu/success).

**Online learning:** Any student enrolled in courses at Winthrop regardless of modality (traditional in-person, online, hybrid, ...) is entitled access to all campus resources. These resources include, but are not limited to, admissions counseling, recreational facilities, and health, library, and academic services. Questions regarding access to these resources should be directed to the assigned academic advisor.

**Masking Expectations:** Winthrop requires that all students adhere to safety practices that will minimize the transmission of COVID-19 within the campus community. Accordingly, students are expected to engage in social distancing and wear a cloth face mask while on campus. Failure to comply with this requirement in the classroom will result in dismissal from the current class meeting. Repeated violations will be reported to the Dean of Students as a violation of the Student Conduct Code. Students with conditions that prohibit the wearing of a face mask should discuss this with their instructor and/or contact the Office of Accessibility to arrange appropriate accommodations.

**Sp2022 COVID-19 Statement:**

During this pandemic period each student is expected to act in the best interest of the WU community by behaving responsibly to limit the spread of the COVID-19 virus. All students, faculty, and staff must wear masks inside buildings and classrooms, unless alone in a private office. All members of the campus community must follow campus guidance on masking. Please do not attend class if you have fever or any signs of the COVID virus; do not attend class if your roommate or someone you have close contact with acquires the virus and be respectful of others' desire to remain COVID-free. Students who violate WU guidelines will be asked to comply. Continued failure to comply may result in referral to the Dean of Students Office as a student conduct violation.

**Sp2022 COVID-Related Absence:**

Students should contact Health Services regarding a positive test, close contact, or enhanced COVID-like symptoms. Any student who has either tested positive, has COVID-like symptoms, or has close contact with someone who has COVID, must contact Health Services. Students should log in to the Patient Portal to schedule a TELEPHONE TRIAGE Appointment w/ COVID as the reason and upload the positive test

result if applicable. Health Services will communicate with the student on what steps to take next, and if need be, the Dean of Students Office will get absence verification for required isolation and quarantine. Students who verify their absences through the Dean of Students Office often minimize any academic impact caused by missed class time. Health Services will only provide dates of absence, not medical information. Please note, residential students who test positive or are a close contact are expected to follow their personal COVID Quarantine and Isolation Plan.

**General Education Requirements:** Chem 101 fulfills three hours of general education requirement for natural sciences. Listed below are the seven fundamental student learning outcomes for natural science courses as well as examples of how they will be fulfilled in Chem 101.

**Students should be:**

1. Conversant with a few fundamental concepts from the three main areas of natural science, including earth, life, and physical sciences. (e.g., *chemical reactions, global warming, nuclear power, etc.*)
2. Able to apply the scientific methodologies of inquiry. (e.g., *Problem solving exercises*)
3. Able to discuss the strengths and limitations of science. (e.g., *discussion of scientific methodology*)
4. Able to demonstrate an understanding of the history of scientific discovery. (e.g., *The development of the periodic table and discovery of subatomic particles*)
5. Able to discuss the social and ethical contexts within which science operates. (e.g., *global warming, fossil fuels, nuclear power...*).
6. Able to communicate about scientific subjects including the defense of conclusions based on one's own observations. (e.g., *homework assignments and analytic exam questions*)
7. Able to discuss the application of scientific knowledge to the social sciences and to non-scientific disciplines. (e.g., *research paper on current scientific topic in the news*)

**Syllabus Changes:** This syllabus is a working document. It will be changed as needed and mistakes corrected, as necessary. Announcement or Email notification will be sent with any changes to this syllabus through Blackboard.

**Class Preparation:** This course will test your time management and prioritization skills. You will perform better on graded events if you spend time reading the material, reviewing lessons on Blackboard and answering suggested problems well in advance of assignment deadlines. **Once an assignment is due, it will become unavailable to you. Failure to complete on time will receive a grade of zero.** You may work at an accelerated pace, but you may not request a retake if you rushed ahead and were not fully prepared.

### **Lectures:**

There are no classroom meeting times for this course. Chapter PowerPoint slides are available with the text. There are also many resources on the online book site.

**Homework:** These problems will not be collected but are recommended for practice before completing a graded assignment. The odd chapter problems are representative of questions asked. Their answers available at the end of the text.

### **Graded assignments:**

- There will be nine quizzes/evaluations worth 30 points each. **No make-ups will be allowed.** See point distribution table.
- The lowest quiz grade will be dropped. If a quiz is missed, that grade will be one of the dropped scores.
- **You should carefully read the Winthrop University Student Conduct Code printed in the *Winthrop University Student Handbook*. As noted in the Student Conduct Code: *Responsibility for good conduct rests with students as adult individuals. This policy on student academic misconduct is outlined in the Student Conduct Code Academic Misconduct Policy in the online Student Handbook***  
<http://www2.winthrop.edu/studentaffairs/handbook/StudentHandbook.pdf>

### **Course Goals:**

- Establish an understanding of basic chemistry principles
- Relate how these principles apply to the world around us
- Develop problem-solving and critical thinking skills

### **University Level Competencies:**

- Competency 1: Winthrop graduates think critically and solve problems.
- Competency 2: Winthrop graduates are personally and socially responsible.
- Competency 3: Winthrop graduates understand interconnected nature of the world, time in which they live.
- Competency 4: Winthrop graduates communicate effectively

**Course Outline:** The following topics may be covered during the course:

- 1 Portable Electronics: The Periodic Table in the Palm of Your Hand
- 2 The Air We Breathe
- 3 Radiation from the Sun
- 4 Climate Change
- 5 Energy from Combustion
- 6 Energy from Alternative Sources
- 7 Energy Storage
- 8 Water Everywhere: A Most Precious Resource
- 9 The World of Polymers and Plastics
- 10 Brewing and Chewing
- 11 Nutrition
- 12 Health and Medicine
- 13 Genes and Life
- 14 Who Killed Dr. Thompson? A Forensic Mystery

**Table 101a: Point Distribution**

			Lowest quiz dropped
<b>Quizzes/Evaluations</b>	9@ 30 pts	270 pts	240 pts
<b>Test/Project/Paper</b>	2@ 75 pts	150	150
Stimulus Points/other			
Meet your instructor			
Meet your classmates			
Quiz retake <sup>§</sup>			
<b>Total</b>		<b>420 pts</b>	<b>390 pts</b>

<sup>§</sup> If all quizzes completed by Q8 deadline, retake may be requested

**Table 101b: Grade Scale**

Sp22 C101 Final break out			
	Percent	tot pts	LQD
A	100	420	390
	89.6	376.32	349.44
B+	89.5	375.9	349.05
	86.6	363.72	337.74
B	86.5	363.3	337.35
	79.6	334.32	310.44
C+	79.5	333.9	310.05
	78.6	330.12	306.54
C	78.5	329.7	306.15
	69.6	292.32	271.44
D	69.5	291.9	271.05
	59.6	250.32	232.44
F	59.5	249.9	232.05

**This is a tentative schedule and will be updated as needed.**

- Quizzes and exams will be available in **Connect**, along with the e-text. They are linked to Blackboard and should be completed/ submitted there.
- There is no time limit on an individual graded event, but the Events must be submitted by the due date.

## Assignments-Due dates Sp22\_Chem101001\_1<sup>st</sup>\_half CRN21759

Date (not later than)	Day #	Assignment/Activity <b>Submitted by 11:59 pm</b>	Text Focus Sections	Suggested Homework Problems (answers to odd problems found in book)	Points
1/10	1	Class official start			
1/13	4	Last day to Add/Drop			
1/16	7	Meet the Instructor/Classmates Discussion Board			
1/17	7.5	MLK day			
		Connect Start			
		<b>Project 1</b>		<b>See Blackboard for details</b>	
1/18	8	Quiz 1	All	Ch 1: odd	30
1/20	10	Quiz 2	All	Ch 2 odd	30
1/23	13	Quiz 3	All	Ch 3 odd	30
1/27	17	Project 1			75
1/30	20	Quiz 4	All	Ch 4 odd	30
2/3	23	Quiz 5	All	Ch 5 odd	30
2/5	25	Quiz 6	All	Ch 6 odd	30
2/8	29	<b>W/D and S/U deadline</b>			
2/15	37	<b>Project 2</b>		<b>See Blackboard for details</b>	75
2/20	41	Quiz 7	All	Ch 7 odd	30

**Complete course evaluation** - Chemistry course evaluations for Spring 2022 are located at

[https://winthrop.qualtrics.com/jfe/form/SV\\_d4o6rQZWmJOwGPK](https://winthrop.qualtrics.com/jfe/form/SV_d4o6rQZWmJOwGPK)

Each student will sign in with their student number (W-----) and section CRN.

Example: Student number: W12345678 Access outside the available dates will give a message of survey ended.

Available dates

Course

Section

**Jan 10 – Feb 28**

**Chem 101**

**Section CRN: 21759**

**Section 001, 1<sup>st</sup> ½ sem**

Mar 1 – Apr 25

Chem 101

Section CRN: 21330

Section 002, 2<sup>nd</sup> ½ sem

2/23	44	Quiz 8	All	Ch 8 odd	30
2/26	47	Quiz 9	All	Ch 9	30
2/28	49	Class ends	All		

- *This document may be adjusted as needed during the semester. The student is responsible for being aware of any changes and so should check Blackboard course page for changes to this syllabus. There will always be notification sent from the announcements*