

SYLLABUS
CHEM 202 - General Chemistry II sec. 02 (STAR 50952)
11:00^{am} - 12:15 Tuesday and Thursday
Currens Hall 203
Fall, 2019

Instructor: Dr. Rose McConnell, Chairperson & Professor, Department of Chemistry

Office and Office Hours: The instructor's office is Currens 214. Office hours are 8:00 - 10:00 Tuesday; and 2:00 - 4:00 Thursday. Call the Chemistry Department (309-298-1538) or e-mail RM-McConnell@WIU.edu.

Laboratory Director: Dr. J. Scott McConnell, Professor of Chemistry

Expense Materials Required: Costs for these materials are the responsibility of the student.

Textbook. "Chemistry: Structure and Properties," 2nd edition, by Tro. Pearson, publishers.

Textbook (hard copy) only - ISBN 9780134293936.

Textbook (e-text) with Mastering - ISBN 9780134566290.

Textbook (hard copy and e-text) with Mastering - ISBN 9780134436524.

The homework assignments will use the Mastering Chemistry system
(<https://www.pearsonmylabandmastering.com/northamerica/masteringchemistry/students/index.html>)

Laboratory Manual. "General Chemistry II Laboratory Manual: CHEM 202." Hayden-McNeil, publishers. ISBN: 978-0-7380-9997-2.

Material Safety Data Sheets (MSDS) information about all chemicals utilized in the laboratory can be found at the following web site. <http://hazard.com>. E-copies are free of charge.

Approved personal eye protection is required for the laboratory component of CHEM 202. The student must purchase safety goggles.

A simple scientific calculator without extensive memory functions (i.e. Texas Instruments model 30, equivalent, or less sophisticated models).

Students enrolled in this course are levied a non-refundable laboratory usage fee of \$35 to cover the cost of consumable supplies utilized during the semester.

All CHEM 202 students must register for and attend one of the following CHEM 202 lab sections: CHEM 202 labs:

<u>STAR</u>	<u>Section</u>	<u>Time</u>	<u>Day</u>	<u>Place</u>
46704	21	8:00-10:50	Tuesday	Currens 331
46705	22	2:00 – 4:50	Tuesday	Currens 331
46706	23	8:00 – 10:50	Thursday	Currens 331

Information Regarding CHEM 202 Lab: Lab work is an integral part of the CHEM 202 course. **Lab attendance is important and you must attain a minimum of 130 total lab points to pass the course regardless of the lecture grade.**

The Primary Goals of CHEM 202:

1. Education of students about the basic fields of chemistry.
2. Develop study skills that students need to succeed in university-level science courses.
3. Preparation of students for professional positions in chemistry.
4. Develop critical thinking skills enabling students to solve chemistry problems that incorporate their cumulative knowledge.
5. Preparation of students for classes that require CHEM 202 as a prerequisite.

Prerequisites for CHEM 202: CHEM 202 students must have successfully completed CHEM 201. MATH 100 and either one year of high school chemistry or CHEM 100 was required prior to enrolling in CHEM 201.

Co-requisites for CHEM 202: CHEM 202 students are required enroll in both a CHEM 202 lecture and a CHEM 202 lab section.

Testing and Grading: All exams and quizzes will be objective.

There will be a minimum of seven (7) short quizzes (@ 30 pts each) periodically during the semester. Only the best five (5) quiz scores will be used to determine your grade. Your total number of points possible from the five quizzes will be 150 points.

There will be a minimum of seven (7) homework assignments periodically during the semester. Each homework assignment will be worth twenty (20) points. The homework assignments will use the Mastering Chemistry system (<https://www.pearsonmylabandmastering.com/northamerica/masteringchemistry/students/index.html>). **Only of five (5) best scores of the homework assignments will be used to determine your grade.** Your total number of points possible from the five homework assignments will be 100 points.

Twelve laboratory exercises and a lab final are planned for this semester. **Only your ten best laboratory exercises will be counted toward your final grade.** The labs will be worth 20 points per lab, and the lab final will be worth 50 points. Your total number of points possible from labs will be 250 points. **You must score a minimum of 130 points in the laboratory exercises to pass CHEM 202.**

Four semester examinations will cover the lecture materials presented during the regular semester. The exams will be worth approximately 125 points each. **Only your three best semester examinations will be counted toward your final grade.** Your total number of points possible from regular semester examinations will be 375 points.

To accommodate all absences (excused and unexcused) on an exam day a comprehensive make-up examination will be given on the last day of class. The make-up exam will be comprehensive over all materials covered in CHEM 202.

The American Chemical Society (ACS) General Chemistry Examination will be the Final Examination for CHEM 202. The Final Exam will be worth approximately 125 points and cover all materials of CHEM 201 and CHEM 202. The ACS offers a study guide for the comprehensive test at: <http://uwm.edu/acs-exams/>

No make-up quizzes, homework, or laboratory exercises will be given. If it is necessary to be absent during a quiz or laboratory exercise, your score will be zero and your low grade. Missing more than two exams; having fewer than the required number of quizzes or homework assignments; or missing three laboratory exercises will ensure a zero will be incorporated into your final grade. **DO NOT MISS MORE THAN THE ALLOWED NUMBER.**

Exceptions to the above rules will only be made for University sponsored functions that require your presence during the class period (i.e. WIU band trips, field trips in other WIU classes, WIU athletics, and similar WIU sponsored events), and military commitments. **Notification of the official WIU sponsored function, in the form of a signed memo from the faculty sponsor or coach or commanding officer, must be submitted to the instructor one week prior to the expected absence.** Evidence of military commitment should be presented as soon as possible.

There are approximately 1,000 points possible during the semester. Your letter grade will be based on your total accumulated points NOT on percentages. Please note: the following grading scale is rigorously followed. Grades are based on point totals at the end of the semester. No Unearned credit of any sort will be given to any student.

Course Grading Scale:

<u>Total Points</u>	<u>Grade</u>
≥ 920	A
880 - 919	A-
840 - 879	B+
800 - 839	B
760 - 799	B-
720 - 759	C+
680 - 719	C

640 - 679	C-
600 - 639	D+
560 - 599	D
520 - 559	D-
≤ 519	F

Be aware that many Department of Chemistry courses at the 300 level require the grade of a “C” or better in CHEM 202 to progress to the next course. A grade of “C-“ is **NOT** considered a satisfactory grade by the Department of Chemistry at WIU. An “incomplete” grade will **NOT** be given to a student with a failing grade. No incomplete grade will assigned to a student without documented evidence of an emergency that requires that the student be away from the university or requires that the student miss the final examination. Students shall notify the instructor of the emergency as soon as possible and prior to the final examination. Lab work is an integral part of the CHEM 202 course. Lab attendance is important and you must attain a minimum of 130 total lab points to pass the course regardless of the lecture grade.

Attendance Policy: You are expected to attend class regularly and punctually. You are responsible for all information and materials in sessions and classes whether you are present or not. Any student who receives six or more absences may be dropped from this course without notice and will be reported to financial aid office.

Any student arriving more than ten minutes late for any exam, laboratory exercise, or the final examination may not be allowed to take or complete the assigned work at the instructor’s discretion. Any student attempting to turn in a homework assignment more than ten minutes late may not be allowed to turn in the assigned work at the instructor’s discretion.

Leaving the classroom prior to completion of a quiz or an exam is prohibited. When a student leaves the classroom, the exam or quiz is considered complete. If the student leaves the classroom with an exam or quiz without submitting the exam or quiz for grading, the value of the exam or quiz is zero. Additionally, the student may be prosecuted for academic dishonesty.

Classroom and Course Policies: Any student convicted of academic dishonesty will receive a failing grade and may be subjected to further academic penalty, including expulsion. See the WIU Academic Integrity Policy: <http://www.wiu.edu/policies/acintegrity.php>. **CHEATING WILL NOT BE TOLERATED.**

Data storage or data transfer devices (including but not limited to: notes, cell phones, graphing calculators, iPods, and similar devices) are **NOT** to be used in CHEM 202. Cell phones should be turned off and put away during all class

meetings. The use of any data storage or data transfer devices during any quiz, laboratory exercise, test or the final examination shall constitute **CHEATING**.

Simple scientific calculators without extensive memory functions (i.e. Texas Instruments model 30 and less sophisticated) may be used.

No head covering of any sort (including but not limited to: hats, caps, hoods, and scarves) may be used during the taking of a quiz, exam, or the final examination without specific permission of the instructor.

Assigned seating, rearrangement of seats, and closing of selected seats and areas of the classroom are the option of the instructor.

Work Requirements for CHEM 202 outside the classroom: Students are expected to read, review, study and learn all material discussed in class and lab; read assigned chapters in the textbook; work all homework assignments; and work the questions and problems at the end of each chapter of the text book. A minimum of two to three hours of study time outside of class is generally required for each one hour of class time in CHEM 202.

Electronic homework assignments must be completed as described to achieve a passing grade in CHEM 202. Mastering Chemistry (Pearson).

Course ID: MCONNELLRFL19SEC02

Review Sessions and the Chemistry Resource Center (CRC): Review sessions for CHEM 202 will be scheduled and held one or two days a week in the afternoons or evenings. Days, times, and locations will be posted on Western Online.

The Chemistry Resource Center (Currens Hall 107) is usually open 8:00am - 5:00pm Monday - Thursday, and 8:00am - 12:00pm Friday.

Emergency Preparedness: WIU Office of Risk Management and Emergency Preparedness provides resources on how to respond to emergency situations. Please view the video resources at <http://www.wiu.edu/rmep/> (Click "Resources" on the right side of the page).

Students with Disabilities: In accordance with University values and disability law, students with disabilities may request academic accommodations where there are aspects of a course that result in barriers to inclusion or accurate assessment of achievement. To file an official request for disability-related accommodations, please contact the Disability Resource Center at 309-298-2512, disability@wiu.edu or in 143 Memorial Hall. Please notify the instructor as soon as possible to ensure that this course is accessible to you in a timely manner.

University values, Title IX, and other federal and state laws prohibit sex discrimination, including sexual assault/misconduct, dating/domestic violence, and stalking. If you, or someone you know, has been the victim of any of these offenses, we encourage you to report this to the Title IX Coordinator at 309-298-1977 or anonymously online at:

http://www.wiu.edu/equal_opportunity_and_access/request_form/index.php. If you disclose an incident to a faculty member, the faculty member must notify the Title IX Coordinator. The complete Title IX policy is available at:
<http://www.wiu.edu/vpas/policies/titleIX.php>.

The following action is prohibited under the Student Conduct Code: Disorderly Conduct. Disorderly conduct is defined as any behavior which disrupts the regular or normal functions of the University community, including behavior which breaches the peace or violates the rights of others. (<http://sjp.wiu.edu/CodeOfConduct/index.asp>)

Student Rights and Responsibilities: Student rights and responsibilities are listed on the WIU website (<http://www.wiu.edu/provost/students.php>).

Tentative Course Content, Chapter Assignments, and Projected Exams Dates (Subject to Change)

<u>Chapter</u>	<u>Title</u>
10	Gases
13	Solutions
	EXAMINATION 1 (Tuesday, Sept 17, 2019)
14	Chemical Kinetics
15 & 17	Chemical Equilibrium & Aqueous Ionic Equilibrium
16	Acids and Bases & Buffer Solutions
	EXAMINATION 2 (Tuesday Oct. 8, 2019)
18	Free Energy and Thermodynamics
19	Electrochemistry
	EXAMINATION 3 (Tuesday, Nov 12, 2019)
20	Radioactivity and Nuclear Chemistry
21	Organic Chemistry
	EXAMINATION 4 (Tuesday, Dec. 3, 2019)
	COMPREHENSIVE MAKE-UP EXAMINATION FOR CHEM 202 (Friday, Dec. 6, 2019 – Time and Place to be announced)
Final Exam 10:00 am Thurs. Dec. 12, 2019	ACS COMPREHENSIVE FINAL EXAMINATION OVER BOTH CHEM 201 and CHEM 202 Final Exam Schedule may be found at http://www.wiu.edu/registrar/exams.php

THE FINAL FOR CHEM 202 WILL BE THE AMERICAN CHEMICAL SOCIETY (ASC) COMPREHENSIVE EXAMINATION. THE FINAL FOR CHEM 202 WILL COVER MATERIALS FROM BOTH CHEM 201 AND CHEM 202.

The Final Exam will NOT be given early. Plan your holiday Travel accordingly.

ALL LECTURE NOTES, HAND OUTS, TESTS, QUIZZES, HOME WORKS, AND LABORATORY MATERIALS FROM BOTH CHEM 201 AND CHEM 202 WILL BE NEEDED FOR THE CHEM 202 FINAL.

IT IS STRONGLY SUGGESTED THAT STUDENTS COMPLETE THE CHEM 201/202 (CHEM 911/912) SEQUENCE AT WESTERN ILLINOIS UNIVERSITY PRIOR TO TRANSFERRING.

Important Dates:

<u>Date (Fall, 2019)</u>	<u>Event</u>
August, 19, Mon.	Classes Begin
September 2, Mon.	Labor Day - University Closed
September. 3 Tues.	Classes Resume
October 11, Fri.	Fall Break – No Classes
October 14, Mon.	Classes Resume
October 27, Sun.	Last Day to Drop a class on STARS
Nov. 18 - 22, Mon.-Fri.	Thanksgiving Break - No Classes
November 25, Mon.	Classes Resume
Dec. 09-13, Mon.-Fri.	Final Exam Week – No Classes
December 12, Thurs.	CHEM 202 Final Exam – <u>Starts at 10:00 am</u>

Any situation, condition, or circumstance not covered in the syllabus is subject to the decisions of the instructor, only.