



A Member of the Texas Tech University System

**Course Syllabus: General Chemistry II**  
**College of MCOSME**  
**CHEM-1243 Section 203**  
**Spring of 2026, 9:00-9:50 am (MWF)**

**Contact Information**

Instructor: Dr. Jianguo Shao  
Office: Bolin-307D  
Office hours: 2:00 – 4:00 pm (TWR)  
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**Course Description**

This course focuses on the behavior of chemical systems and the factors that influence reactions. Topics include: intermolecular force and crystalline, properties of solutions, chemical kinetics, equilibrium, acid-base chemistry, thermodynamics, electrochemistry, and nuclear chemistry. The course emphasizes quantitative problem-solving and conceptual understanding, supported by laboratory work that develops practical skills in experimentation, data analysis, and scientific communication.

**Textbook & Instructional Materials**

E-Textbook (free of charge): [Openstax-chemistry book](#);  
Supplemental book: "[Preparing for Your ACS Examination in General Chemistry, 2<sup>nd</sup> Edition](#)".

**Study Hours and Tutoring Assistance**

This course will meet MWF 9:00 – 9:50 am. Free tutoring assistance is provided by MSU Tutoring Center while the Supplemental Instruction is offered by the Chemistry Department. Student can bring questions to the instructor directly during the office hours assigned or by appointment.

**Student Handbook**

Refer to: [Student Handbook](#)

## **Academic Misconduct Policy & Procedures**

Academic Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given). Additional guidelines on procedures in these matters may be found in the Office of Student Conduct.

[Office of Student Conduct](#)

## **Grading Scale**

Table 1: Points allocated to each assignment

<b>Assignments</b>	<b>Points</b>	<b>(%)</b>
4 one-hour exams (Drop the lowest)	300	30%
Final ACS Exam	200	20%
Nine Online-Quizzes via D2L	200	20%
Nine Online Homework via Macmillan	200	20%
Class Attendance	100	10%
<b>TOTAL Assignments</b>	<b>1000</b>	<b>100%</b>

Table 2: Percentage for final grade.

<b>Grade</b>	<b>Points</b>
A	$\geq 90\%$
B	80 – 89%
C	70 – 79%
D	55 – 69%
F	< 55%

## **Quizzes**

Quizzes will be given online via D2L.

## **Exams**

This course includes four one-hour exams and one ACS final exam. The points assigned for each exam are listed in Table 1 above. The style of all exams is multiple choice. The final exam will be given on May 11, 2026, 8:00 – 10:00 pm, in Bolin-306.

## **Late Work**

All work must be completed based on the announced due date. Late work is NOT acceptable.

## **Make Up Work/Tests**

Under no circumstances will make-up exams or other assignments be given. Make-up for major exams will be given for excused absence only.

## **Important Dates**

Last day for term schedule changes: Jan, 22 – 23, 2026, Check date on [Academic Calendar](#).

Deadline to file for graduation: 02/16/2026, Check date on [Academic Calendar](#).

Last Day to drop with a grade of "W:" 04/29/2026, Check date on [Academic Calendar](#).

Refer to: [Drops, Withdrawals & Void](#)

## **Desire-to-Learn (D2L)**

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into [D2L](#) through the MSU Homepage. If you experience difficulties, please contact the technicians listed for the program or contact your instructor.

## **Attendance**

Attendance is required as stated in the Student Handbook. Excessive unexcused absences will result in an instructor drop with a grade of "F".

## **Online Computer Requirements**

This course requires you to have access to a computer (with Internet access) to complete and upload your assignments. It is your responsibility to have (or have access to) a working computer in this class. **\*Assignments are due by the due date, and personal computer technical difficulties will not be considered reason for the instructor to allow students extra time to submit assignments, tests, or discussion postings.**

Computers are available on campus in various areas of the buildings as well as the Academic Success Center.

**\*Your computer being down is not an excuse for missing a deadline!!**

Contact your instructor immediately upon having computer trouble. If you have technical difficulties in the course, there is also a student helpdesk available to you. The college cannot work directly on student computers due to both liability and resource limitations however they are able to help you get connected to our online services. For help, log into [D2L](#).

## **Change of Schedule**

A student dropping a course (but not withdrawing from the University) within the first 12 class days of a regular semester or the first four class days of a summer semester is eligible for a 100% refund of applicable tuition and fees. Dates are published in the Schedule of Classes each semester.

## **Refund and Repayment Policy**

A student who withdraws or is administratively withdrawn from Midwestern State University (MSU) may be eligible to receive a refund for all or a portion of the tuition, fees and room/board charges that were paid to MSU for the semester. **HOWEVER**, if the student received financial aid (federal/state/institutional grants,

loans and/or scholarships), all or a portion of the refund may be returned to the financial aid programs. As described below, two formulas (federal and state) exists in determining the amount of the refund. (Examples of each refund calculation will be made available upon request).

### **Services for Students with Disabilities**

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to [Disability Support Services](#).

### **College Policies**

#### *Campus Carry Rules/Policies*

Refer to: [Campus Carry Rules and Policies](#)

#### *Smoking/Tobacco Policy*

College policy strictly prohibits the use of tobacco products in any building owned or operated by WATC. Adult students may smoke only in the outside designated-smoking areas at each location.

#### *Alcohol and Drug Policy*

To comply with the Drug Free Schools and Communities Act of 1989 and subsequent amendments, students and employees of Midwestern State are informed that strictly enforced policies are in place which prohibits the unlawful possession, use or distribution of any illicit drugs, including alcohol, on university property or as part of any university-sponsored activity. Students and employees are also subject to all applicable legal sanctions under local, state and federal law for any offenses involving illicit drugs on University property or at University-sponsored activities.

#### *Campus Carry*

Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes has prohibited. The new Constitutional Carry law does not change this process. Concealed carry still requires a License to Carry permit, and openly carrying handguns is not allowed on college campuses. For more information, visit [Campus Carry](#).

#### *Active Shooter*

The safety and security of our campus is the responsibility of everyone in our community. Each of us has an obligation to be prepared to appropriately respond

to threats to our campus, such as an active aggressor. Please review the information provided by MSU Police Department regarding the options and strategies we can all use to stay safe during difficult situations. For more information, visit [MSUReady – Active Shooter](#). Students are encouraged to watch the video entitled "Run. Hide. Fight." which may be electronically accessed via the University police department's webpage: ["Run. Hide. Fight."](#)

### **Grade Appeal Process**

Update as needed. Students who wish to appeal a grade should consult the Midwestern State University [MSU Catalog](#)

**\*Notice:** Changes in the course syllabus, procedure, assignments, and schedule may be made at the discretion of the instructor.

### **Core Assessments**

CHEM 1243 is a core course. As such, the following assessments are required:

<b>COURSE</b>	<b>Objective: assignment</b>
<b>CHEM 1243</b>	<b>Critical Thinking: POGIL Kinetics assignment</b> Using kinetics definitions, concepts, and equations to solve applied problems and formulate conclusions
	<b>Quantitative Analysis: ACS final</b> for quantitative analysis (rubric for old Weave reporting can be used- is in the exam folder)

### **Course Schedule**

<b>Date(s)</b>	<b>Chapter</b>	<b>Topic</b>
Jan. 21 – 28	11	Intermolecular Forces, Liquids, and Solid
Jan. 30. – Feb. 06	13	Properties of Solutions
<b>Feb. 09</b>	<b>TEST-1</b>	<b>Chapters 11 &amp; 13</b>
Feb. 11 – 20	14	Chemical Kinetics
Feb. 23 – Mar. 02	15	Chemical Equilibrium
Mar. 04	Assessments	POGIL Kinetics assignment (core assessment: critical thinking)
<b>Mar. 06</b>	<b>TEST-2</b>	<b>Chapters 14 &amp; 15</b>
Mar. 09 – 13	<i>Spring Break</i>	<i>No Class</i>
Mar. 16 – 25	16	Acid-Base Equilibrium
Mar. 27 – Apr 08	17	Additional Aspects of Aqueous Equilibria
Apr. 02 – 03	<i>Holiday Break</i>	<i>No Class</i>
<b>Apr. 10</b>	<b>TEST-3</b>	<b>Chapters 16 &amp; 17</b>
Apr. 13 – 20	19	Chemical Thermodynamics
Apr. 22 - 29	20	Electrochemistry
May 01 - 06	21	Nuclear Chemistry
<b>May 08</b>	<b>TEST-4</b>	<b>Chapters 19 – 21</b>
<b>May 11</b>	<b>FINAL TEST</b>	<b>ACS Final (Core assessment: quantitative analysis); 8 – 10 am, Bolin-306</b>

