MISSISSIPPI COLLEGE
A CHRISTIAN UNIVERSITY

General Chemistry I Laboratory

CHE 141 Sections 1,2,3,4,5,6 | Fall 2025
Total Credit Hours: Zero credit hours | Three hours Lab
Classroom: 309 Hederman

Instructors

Instructor	Contact Info	Section	Day	Time
Pamela Clevenger	pclevenger@mc.edu	1	Tuesday	12:30pm – 3:20pm
Pamela Clevenger	pclevenger@mc.edu	2	Wednesday	12:30pm – 3:20pm
Dr. David Magers	magers@mc.edu	3	Thursday	12:30pm – 3:20pm
Dr. Scoty Hearst	shearst@mc.edu	4	Tuesday	3:30pm – 6:20pm
Dr. David Magers	magers@mc.edu	5	Wednesday	3:30pm – 6:20pm
Pamela Clevenger	pclevenger@mc.edu	6	Thursday	3:30pm – 6:20pm

Office hours – as needed

Course Description

A laboratory study of the topics covered in the lecture portion of the course. The chemical and physical properties of elements and compounds will be examined.

Rationale for Course

This course will provide a general understanding of chemistry for a science major. Development of problem solving and critical thinking skills will be stressed.

Learning Objectives

Students will learn the fundamental laws and theories of chemistry through laboratory experiences.

Prerequisites

This course is taken with General Chemistry I, CHE 141

Instructional Materials

Laboratory Manuals and a pair of safety glasses will be distributed during the first week of lab. Students will sign for the receipt of the materials. If the materials are lost, the student will be financially responsible for replacing the items. Personal calculators can be used for lab quizzes and calculations.

Methods of Instruction

Students will construct laboratory experiments to make observations and measurements to support chemical calculations and other topics.

Methods of Evaluation

Each week there will be the following graded evaluations for a total of 50 points per week. At the end of the semester there will be a lab final worth 100 points.

Online Pre-lab Quiz	5 points
Lab Quiz	10 points
Lab Report	30 points
Safety/Participation/Clean-Up	5 points

MC Syllabus Statement

The MC Syllabus contains all policies and procedures that are applicable to every course offered by Mississippi College, both on campus and online. The policies in the MC Syllabus describe the official policies of the University as they relate to instruction and will take precedence over those found elsewhere. It is the student's responsibility to read and be familiar with every policy. The MC Syllabus may be accessed at any time on the MC website at the following: https://www.mc.edu/provost/mcsyllabus.

MC Honor Code

A fundamental principle of academic, business, and community life is honesty. Mississippi College has adopted an Honor Code that applies to all members of our academic community. The code is as follows: "As a member of the Mississippi College community, I will live, speak, and work in a way that honors myself and others around me. I will hold myself and others to the highest standards of virtue and truth." Upon accepting admission to Mississippi College, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor Code. As such, academic dishonesty is not tolerated. Students will be required to affirm this statement on examinations, research Academic Affairs—2.19 Academic Honesty 2 papers and other academic work. Ignorance of the rules does not exclude any member of the Mississippi College community from the requirements or the processes of the Honor Code. For additional information, please visit: https://mc.edu/provost/honorcode.

Grading Policy

The percentage of points earned will be reported to the lecture instructor. The CHE 141 lab counts 22% of the total CHE 141 four-hour credit.

There are eleven weekly labs scheduled. At the end of semester, the top ten lab grades will be counted for the lab report portion of the grade. This gives everyone a drop lab. The drop can be due to an absence or the lowest grade received. The lab final can not be used as the drop grade. Departmental calculators will be provided for use on the lab final.

The course goals are to (1) meet the course objectives and (2) ensure fairness. Accordingly, please do not contact the instructor at the end of the course to request

an extra assignment, bonus opportunity, or grade change for any reason except an error in the calculation of the final grade. Grade appeals should follow the process outlined in MC Policy 4.20.

Additional Course Policies

1. Safety glasses are required at all times in the laboratory.
2. Wear long pants, scrubs, or long skirts and closed toed shoes. A shirt worn in chemistry lab should provide coverage of at least half of the arm from shoulder to elbow. The shirt should be long enough to stay tucked-in or down, so there is no bare midriff.
3. Long hair should be tied back. No hats, caps, scarves or head coverings (exceptions for religious purposes).
4. No food, drink or chewing gum in the laboratory.

Failure to meet the proper safety requirements will result in the dismissal from the laboratory environment.

Best Practices

Attendance in Chemistry Laboratory is required for all students enrolled in CHE 141. In the event that an absence is unavoidable, permission to make up the laboratory must be obtained. The lab must be made up during the week of the absence. A list of all labs is provided at the beginning of this syllabus. It is your responsibility to contact both instructors for permission and to make the appropriate arrangements.

Be on time for lab. Tardiness of more than 10 minutes will result in the dismissal from that laboratory session.

Course Outline / Schedule

Fall 2025 CHE 141 Lab Schedule			
Week 1	Aug. 19-21	Lab Orientation	Safety, Distribution of Lab Manuals and Safety Glasses
Week 2	Aug. 26-28	Lab 1	Data Handling
Week 3	Sept. 2-4	Lab 2	Measuring Techniques and Density
Week 4	Sept. 9-11	Lab 3	Determine the Concentration of an Unknown Sodium Chloride Solution using a Calibration Plot
Week 5	Sept. 16-18	Lab 4	Paper Chromatography
Week 6	Sept. 23-25	Lab 5	Nomenclature
Week 7	Sept. 30 – Oct.2	Lab 6	Formula of a Hydrate
Week 8	Oct. 7-9	Lab 7	Empirical Formula
Week 9	Oct. 14-16	Lab 8	VSEPR Theory
Week 10	Oct. 21-23	Lab 9	Molarity
Week 11*	Oct. 28-30	Open*	
Week 12	Nov. 4-6	Lab 10	Titration
Week 13	Nov. 11-13	Lab 11	Determination of Gas Law Constant
Week 14	Nov. 18-20	Lab Final	

* Week 11 is reserved as a week to use for lab in the event that the Mississippi College schedule is interrupted.

Disclaimer

The instructor reserves the right to modify the schedule proposed in the syllabus as necessary. Modifications will be provided in writing.