

Introductory Chemistry I Lab (CHEM 1106 5A1)

CREDIT

1 SCH, Semester Credit Hours (0 hours lecture, 2 hours lab)

MODE OF INSTRUCTION

Online

PREREQUISITE/CO-REQUISITE:

N/A

COURSE DESCRIPTION

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students.

COURSE OBJECTIVES

Upon completion of this course, the student will be able but not limited to:

- Use basic apparatus and apply experimental methodologies used in the chemistry laboratory.
- Demonstrate safe and proper handling of laboratory equipment and chemicals.
- Conduct basic laboratory experiments with proper laboratory techniques.
- Make careful and accurate experimental observations.
- Relate physical observations and measurements to theoretical principles.
- Interpret laboratory results and experimental data and reach logical conclusions.
- Record experimental work completely and accurately in laboratory notebooks and communicate experimental results clearly in written reports.
- Design fundamental experiments involving principles of chemistry.
- Identify appropriate sources of information for conducting laboratory experiments involving principles of chemistry.

In addition to the course objectives above, the student will also develop the following:

- Critical Thinking Skills (CT) - creative thinking, innovation, inquiry and analysis, evaluation and synthesis of information.
- Communication Skills (COM) – effective development, interpretation and expressions of ideas through written, oral, and visual communication.
- Empirical and Quantitative Skills (EQS) – manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
- Teamwork (TW) – ability to consider different points of view and to work effectively with others to support a shared purpose or goal.



**LAMAR INSTITUTE
OF TECHNOLOGY**

INSTRUCTOR CONTACT INFORMATION

Instructor: Conor Smith

Email: casmith4@lit.edu

Office Phone: (409)247-4871

Office Location: MPC 238

Office Hours:	Monday	9:00 am	–	5:30 pm
	Tuesday	12:00 pm	–	9:00 pm
	Wednesday	9:00 am	–	5:30 pm
	Thursday	12:00 pm	–	7:30 pm
	Friday	9:00 am	–	2:30 pm

Preferred contact: Blackboard message or email

REQUIRED TEXTBOOK AND MATERIALS

Required Textbook – Bauer, Introduction to Chemistry 6th edition

Supplementary Textbook – OpenStax, Chemistry 2nd edition

ALEKS Chemistry – Introductory College Chemistry

Scientific calculator

ATTENDANCE POLICY

Attendance is monitored in blackboard but does not count towards the overall grade.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process.

If you stop coming to class and fail to drop the course, you will earn an “F” in the course.

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Virtual Lab Assignments 60 %
- CORE Assignment 20 %
- Final Exam 20 %

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

COURSE CALENDAR – CHEM 1106 Online, Spring 2025

DATE	TOPIC	READINGS (Bauer, 6 th)	ASSIGNMENTS	Due Date
Jan 20 – Jan 26	Virtual Lab Tutorial	-----	Virtual Lab 1 Assignment	1/24
Jan 27 – Feb 2	Safety	-----	Virtual Lab 2 Assignment	1/31
Feb 3 – Feb 9	Density	CH 1.2	Virtual Lab 3 Assignment	2/7
Feb 10 – Feb 16	The Scientific Method	CH 1.4	Virtual Lab 4 Assignment	2/14
Feb 17 – Feb 23	Solubility	CH 5.3 + 8.3	Virtual Lab 5 Assignment	2/21
Feb 24 – Mar 2	Replacement Reactions	CH 5.1 – 5.5	Virtual Lab 6 Assignment	2/28
Mar 3 – Mar 9	Stoichiometry	CH 6.1 – 6.5	Virtual Lab 7 Assignment	3/7
Mar 10 – Mar 16	Spring Break			
Mar 17 – Mar 23	VSEPR	CH 8.1 – 8.5	Virtual Lab 8 Assignment	3/21
Mar 24 – Mar 30	Diffusion	CH 9.1 – 9.4	Virtual Lab 9 Assignment	3/28
Mar 31 – Apr 6	Ideal Gas Law	CH 9.3	Virtual Lab 10 Assignment	4/4
Apr 7 – Apr 13	pH	CH 13.1 – 13.5	Virtual Lab 11 Assignment	4/11
Apr 14 – Apr 20	Titration	CH 13.1 – 13.5 + CH 11.5	Virtual Lab 12 Assignment	4/18
Apr 21 – Apr 27	CORE Assignment	-----	CORE Assignment	4/25
Apr 28 – May 4	Help Session / Lab Review	-----	-----	-----
May 5 – May 11	Final Exam	All Chapters	Final Exam	5/9
May 11 – May 15	-----	-----	-----	-----

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

Each lab assignment is given through ALEKS. If you experience any issues with ALEKS, look over the materials in the course information folder and if none of these fixes work then contact me so that we can find a solution.

All late work will be subjected to a late penalty (10 % for assignments, 20 % for the final exam) unless in exceptional circumstances with evidence (e.g. doctor's note).

It shall be considered a breach of academic integrity to collaborate with other students during any/all examinations completed throughout the class (i.e. complete tests/questions as a group). Examinations cannot be submitted after correct answers are revealed to the class to ensure academic integrity.

1st Offense: The student will receive a grade of zero (0) for the exam which will count towards the student's class average and there will be NO MAKEUP of the test.

2nd Offense: The student will be removed from the class and will receive a failing grade (F) for the entire lecture and lab grade.

Students with specific accommodations, needs, or medical/personal emergencies should communicate with their instructor regarding individual exceptions/provisions. It is the student's responsibility to communicate such needs to the instructor.