

**Chemistry 124A**  
**General, Organic and Biological Chemistry Laboratory**  
**Course Syllabus – Winter Session 2022-2023**

*DRAFT - Updated Oct-2022*

**Instructor:** Dr. Myron W. Jones

**e-mail:** myrjone@siue.edu

**Office:** SLW 3125 (no on campus during WS)

**Office phone:** (contact via email)

**Online Office Hours:** TBA (Zoom)

**Blackboard:** <https://bb.siue.edu>

**Overview of Course**

This course is being offered entirely online. There are no meetings on campus. The assigned activities are designed to complement, in part, the lecture material presented in CHEM 120A. The lab component will demonstrate how the basic principles of chemistry can be experimentally verified as well as how they are applied to chemical problems. Knowledge of chemical laboratory techniques and procedures is extremely useful to a health care professional when dealing with clinical laboratory results. This online lab experience will be helpful to gain a better understanding of such techniques.

**Textbook:** Laboratory Manual for General, Organic, and Biological Chemistry by Karen C. Timberlake, 2<sup>nd</sup> Custom Edition for Southern Illinois University, Chem 124a, Pearson ISBN: 1-323-41300-6

**The Tentative Laboratory Schedule is below.**

Class begins on December 19<sup>th</sup>, 2022 and ends January 8<sup>th</sup>, 2022. The Blackboard course and the first assignments will be available starting December 19<sup>th</sup> and must be completed **PRIOR** to the posted due dates to earn full credit. Late Penalty = 1 day - 10%, 2 days - 50%, 3 days - 75%

**Tentative Lab Activity Schedule**

No.	Day	Date	Lab Name	Due Date ( by 11:59 p.m.)
1	M	12/19	Course Introduction and Lab Safety	December 21, 2021
2	T	12/20	Measurement & Significant Figures Conversion Factors & Problem Solving	December 22, 2021
3	W	12/21	Density, Specific Gravity, Temperature, Specific Heat	December 23, 2021
4	R	12/22	Energy and Matter	December 24, 2021
5	F	12/23	Atoms and Elements	December 27, 2021
6	M	12/26	Electronic Configuration & Periodic Properties	December 28, 2021
7	T	12/27	Compounds and Bonds	December 29, 2021
8	W	12/28	Chemical Reactions and Equations	December 30, 2021
9	R	12/29	Formula of a Hydrate	December 31, 2021
10	F	12/30	Gas Laws	January 3, 2022
11	M	1/2	Rates of Chemical Reactions	January 4, 2022
12	T	1/3	Solutions, Electrolytes, and Concentration	January 5, 2022
13	W	1/4	Soluble and Insoluble Salts	January 6, 2022
14	R	1/5	Acids and Bases	January 7, 2022
15	F	1/6	TBA	January 9, 2022
16	M	1/9	Last Assignment - TBA	January 9, 2022

**Additional Resources:** On some of the labs you may need additional resources. The internet is full of a variety of chemistry resources and information. You may find yourself using it to help with concepts in the labs. Contact Dr. Jones if you need recommendations for additional resources to complete a particular assignment.

**Communication:** E-mail all questions regarding the course to Dr. Jones at [myrjone@siue.edu](mailto:myrjone@siue.edu). Although responses usually arrive sooner, please allow up to 24 hours to receive reply.

**Time Commitment:** To earn a passing grade, students taking Chem 124a online in the Winter Term should expect to spend at least 12 hours a week on this Laboratory course.

**Computer Requirements and Access:** Each student must have unlimited access to a computer with internet access, a webcam, microphone, and speakers. The computer must have Adobe Acrobat Reader™, and MS Office™. Currently enrolled students can download and install Microsoft Office on up to five computers by visiting: <http://office365.siue.edu>. You will need to use your full SIUE email address (NOT just your e-ID) and e-ID password to log in. The subscription also includes full access to MS Office applications for iPhone and Android devices.

**Blackboard Login:** When logging into Blackboard, use your University e-ID and password. If you have never used your University login name go to the following website to register: <http://www.siue.edu/e-ID/>. Note that all e-ID passwords must be changed every 60 days. To change your password online you must know your old password. If you do not remember your old password, you will need to contact ITS at 618-650-5500 for assistance.

**Problems accessing Blackboard:** The only aspect of Blackboard over which the instructor has control, is course the content. If you encounter problems with the course on Blackboard, contact Dr. Jones first. He will attempt to resolve the issue or he will refer you to SIUE Information Technology Services at 618-650-5500, or at <http://www.siue.edu/its/bb/> for assistance.

**Grading:** Your grade on a lab assignment will be determined based on the: full completion of all parts of the lab in the appropriate manner, the results (how close you are to the correct results of each portion of the activity, and the answers to the laboratory questions. In some instances, you may complete the laboratory assignments more than once if needed, but each attempt must be completed prior to the due date to count.

**Lab Reports:** Each set of activities including an online lab report will be worth 100 pts. The distribution of points for each set of activities may vary depending on the nature of the assignment.

Your final course grade will be determined based on the average of all assignments. Opportunities to earn extra credit *may* be available at the end of the course.

Grade Cutoffs: (  $\geq 90\%$ =A,  $> 80\%$ =B,  $> 70\%$ =C,  $> 60\%$ =D,  $<60\%$ =F).

**Academic Code:** (<http://www.siue.edu/POLICIES/3c2.html>):

#### **Students with Disabilities:**

Students needing accommodations because of medical diagnosis or major life impairment will need to register with Accessible Campus Community & Equitable Student Support (ACCESS) and complete an intake process before accommodations will be given. The ACCESS office is in the Student Success Center, Room 1270. You can also reach the office by e-mail at [myaccess@siue.edu](mailto:myaccess@siue.edu) or by calling

618.650.3726. For more information on policies, procedures, or necessary forms, please visit the ACCESS website at [www.siue.edu/access](http://www.siue.edu/access).

**The instructor reserves the right to change any items contained in this syllabus when such changes are deemed to be in the best interest of the course. This includes, but is not limited to: course content, scheduled dates, and fraction(s) of the final grade assigned to individual components of the course. Changes, if they occur, will be limited.**

Some items in the statement below don't apply to this course since the course is 100% online. Nevertheless, the statement is included here as required by university policy. The information below may be updated for Winter session and/or Spring 2023. If so, the updated language will be provided on the course Blackboard site once class begins.

## **COVID-19 Pandemic Policies Related to Classroom Instruction (Fall 2022)**

### **Health and Safety**

The measures outlined below are required and any student who does not comply may be in violation of the *COVID-19 People-Focused Health and Safety Policy*, as well as the University's *Student Code of Conduct*.

The full text of the *COVID-19 People-Focused Health and Safety Policy* can be found here:  
<https://www.siue.edu/policies/Covid.shtml>

### **Classrooms, Labs, Studios, and Other Academic Spaces**

Under current University policy, SIUE will only require masking in campus healthcare settings. See, <https://www.siue.edu/about/announcements/coronavirus/safety-guidelines-support/index.shtml>.

Individual faculty of record may determine that masking will be required in their classrooms and are asked to communicate accordingly with students. Face masks may be required in other campus sites following guidance from governing regulatory agencies.

- Students who forget to wear a face covering when masking is required will be reminded of their obligation to comply with SIUE's *COVID-19 People-Focused Health and Safety Policy* and temporarily asked to leave the class until they are able to conform to the policy. Students who forget or lose their face coverings when masking is required may be able to obtain replacements from a friend, a faculty member, or a nearby departmental office. Face coverings are also available for purchase in the Cougar Store (MUC).
- Students who refuse to wear a face covering when masking is required will be asked to leave the classroom and referred to the Dean of Students for non-compliance with community health and safety protocols. Repeated non-compliance may result in disciplinary actions, including the student being administratively dropped from an on-ground/face-to-face course or courses without refund if no alternative course format is available.
- If a student has a documented health condition which makes wearing a face covering medically intolerable, that student should contact ACCESS to explore options with the understanding that ACCESS will not grant accommodations which excuse the need for a face covering while on campus or in the classroom. ACCESS will work with qualifying individuals to find reasonable alternatives, whenever such solutions are available. Please call or contact the ACCESS Office via email to schedule

an online appointment to discuss potential alternatives. ACCESS office (Student Success Center, Room 1203, 618-650-3726, and [myaccess@siue.edu](mailto:myaccess@siue.edu)).

### **General Health Measures**

Students and employees are expected to review the [siue.edu/coronavirus](https://www.siue.edu/coronavirus) website (<https://www.siue.edu/about/announcements/coronavirus/>) to better understand prevention strategies and safety expectations.

- Students and employees are expected to maintain healthy hygiene practices.
- Students and employees are expected to follow COVID-related guidelines and directions.
- Students and employees are expected to conduct a daily health self-assessment and isolate themselves if COVID-related symptoms are present. COVID-related symptoms include:
  - o Fever (100.4 degrees or above) or chills
  - o Cough
  - o Shortness of breath or difficulty breathing
  - o Fatigue
  - o Muscle or body aches
  - o Headache
  - o New loss of taste or smell
  - o Sore throat
  - o Congestion or runny nose
  - o Nausea or vomiting
  - o Diarrhea

### **Academic Integrity**

Students are reminded that the expectations and academic standards outlined in the Student Academic Code (3C2) apply to all courses, field experiences and educational experiences at the University, regardless of modality or location. The full text of the policy can be found here: <https://www.siue.edu/policies/3c2.shtml>.

### **Recordings of Class Content**

Faculty recordings of lectures and/or other course materials are meant to facilitate student learning and to help facilitate a student catching up who has missed class due to illness or quarantine. As such, students are reminded that the recording, as well as replicating or sharing of any course content and/or course materials without the express permission of the instructor of record, is not permitted, and may be considered a violation of the University's Student Conduct Code (3C1), linked here: <https://www.siue.edu/policies/3c1.shtml>.

### **Potential for Changes in Course Schedule or Modality**

As the COVID-19 pandemic continues, there remains a possibility that planned classroom activities will need to be adjusted. Depending on circumstances and following state-issued recommendations, potential changes include alterations to distancing requirements, course modality (e.g., transition from face-to-face to online, hybrid, or hy-flex, mask wearing, in-course activities, etc). These changes would be implemented to ensure the successful completion of the course while preserving health and safety. In these cases, students may be provided with an addendum to the class syllabus that will supersede the original version. If the course schedule or modifications significantly alter expectations, a new syllabus will be issued.