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# SCIENCE OF CONTEMPORARY ISSUES 3 – LABORATORY SYLLABUS

University of Denver – CHEM 1003 Laboratories – Spring Quarter 2021

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**Professor:** Dr. Emily Barter

**E-mail:** [Emily.Barter@du.edu](mailto:Emily.Barter@du.edu)

Teaching Assistant	E-Mail Address	Office Hours
Clint Boldt	Clint.Boldt@du.edu	Thursday 2:00pm – 4:00pm
Austin Haider	Austin.Haider@du.edu	Tuesday 2:00pm – 4:00pm
Jake McGuire	Jake.McGuire@du.edu	Wednesday 3:45pm – 5:45pm
Emma Oldani	Emily.Oldani@du.edu	Monday 2:30pm – 4:30pm
Jack Snow	Jackson.Snow@du.edu	Wednesday 3:00pm – 5:00pm

LABORATORY SCHEDULE				
Section	Day	Time	TA	Location
06	Mon	9:00 am – 11:50 am	Emma Oldani	<a href="https://udenver.zoom.us/my/eoldani">https://udenver.zoom.us/my/eoldani</a>
04	Mon	2:00 pm – 4:50 pm	Austin Haider	<a href="https://udenver.zoom.us/my/austinhaider">https://udenver.zoom.us/my/austinhaider</a>
05	Mon	6:00 pm – 8:50 pm	Emma Oldani	<a href="https://udenver.zoom.us/my/eoldani">https://udenver.zoom.us/my/eoldani</a>
07	Tues	2:00 pm – 4:50 pm	Clint Boldt	<a href="https://udenver.zoom.us/my/cboldt">https://udenver.zoom.us/my/cboldt</a>
08	Tues	6:00 pm – 8:50 pm	Clint Boldt	<a href="https://udenver.zoom.us/my/cboldt">https://udenver.zoom.us/my/cboldt</a>
09	Weds	9:00 am – 11:50 am	Jake McGuire	<a href="https://udenver.zoom.us/my/jakemcguire">https://udenver.zoom.us/my/jakemcguire</a>
10	Weds	2:00 pm – 4:50 pm	Austin Haider	<a href="https://udenver.zoom.us/my/austinhaider">https://udenver.zoom.us/my/austinhaider</a>
13	Weds	6:00 pm – 8:50 pm	Jake McGuire	<a href="https://udenver.zoom.us/my/jakemcguire">https://udenver.zoom.us/my/jakemcguire</a>
12	Thurs	2:00 pm – 4:50 pm	Jack Snow	<a href="https://udenver.zoom.us/my/jack.snow">https://udenver.zoom.us/my/jack.snow</a>
14	Thurs	6:00 pm – 8:50 pm	Jack Snow	<a href="https://udenver.zoom.us/my/jack.snow">https://udenver.zoom.us/my/jack.snow</a>

**Note:** The blue colored numbers are to highlight that the section numbers are not sequential by day/time.

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## SCIENCE AND ENGINEERING CENTER (SEC) – [HTTP://PORTFOLIO.DU.EDU/SEC](http://portfolio.du.edu/sec)

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The TAs will hold all of their office hours in their Zoom Rooms (locations above). They are available to you for assistance with both the lecture and laboratory portions of the course.

The SEC is a collaborative space that is staffed by undergraduate and graduate TAs who are trained to assist students with first and second year chemistry, physics, and engineering courses. Their goal is to help students grow as problem solvers by assisting with homework, lab reports, and exam preparations. The SEC is not a one-on-one tutoring center, it is a place where students can get guidance from TAs as well as their peers, and where students can work together (on-line) to learn and create community. **The SEC is free and open to all DU students.** The SEC is physically located in the Northwest corner of the first floor of the Anderson Academic Commons.

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## STUDENT LEARNING OUTCOMES (SLOs)

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Upon completion of this one-year course sequence, students should become proficient in these areas and/or develop these skills:

### Scientific Inquiry – Natural and Physical World SLOs:

1. Apply knowledge of scientific practice to evaluate evidence for scientific claims.
2. Demonstrate an understanding of science as an iterative process of knowledge generation with inherent strengths and limitations.
3. Demonstrate skills for using and interpreting qualitative and quantitative information.

### Course-Specific SLOs:

4. Use graphs to display numerical data and interpret graphical data.
5. When presented with a science-related question, find relevant information to help answer the question.
6. Evaluate sources of information – especially information gleaned from the Internet – to determine their usefulness.
7. Use the skills described above to evaluate scientific claims in the news; learn to identify bogus science and overblown claims.
8. Have the skills and knowledge to make informed choices that impact your health, the environment, and community well-being; view science as a source of power and not fear.
9. Always ask why. Become empowered to take time to do any necessary research to make your own informed decisions; building both confidence and critical thinking skills.

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## ABSENCES

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**Excused absences** – If you are missing class because of an emergency, illness, or a religious activity, communicate with me ASAP. I know this is a challenging situation and I will do my best to help everyone with excused absences or emergencies. Please also recognize the immense challenges for myself and the TAs as we navigate this, together – as a community.

**If you already know that you will be absent for any required course activities during the quarter, tell us about it as far in advance as possible, preferably by the end of the first week of classes.** You still must complete all of the course assignments, but may be able to do so at a different time. Speak with Dr. Barter *before* your absence to work out the details. If you anticipate missing multiple days, schedule a private meeting with Dr. Barter to discuss your needs.

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## MY PLEDGE TO YOU

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I was fortunate to have amazing professors and classmates during my time in both college and graduate school. My goal is to provide all of you with that same experience. I want this class to be a valuable, meaningful, and memorable experience for all of you. Our classroom is going to be one of inquiry and inclusiveness; I want everyone to feel welcome and encouraged to ask any questions that they may have. If you have a question it is likely that someone else in class has the same question, so go ahead and ask it! I will do everything I can to make this the best class and experience it can be. If you have comments or suggestions, you can submit them to me at any time by sending me an email. I will do my best to incorporate your feedback into how I teach the class. I am thrilled to have each of you in this class and am looking forward to a great quarter.

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## DESCRIPTION OF LABORATORY ASSIGNMENTS

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- Unless otherwise noted, labs will always be held in your TA's Zoom room.
- Lab points will be based on your performance on lab assignments.
  - What the laboratory assignments look like will change throughout the quarter.
- The TAs will be present in their zoom room for a minimum of the 1<sup>st</sup> hour of your scheduled laboratory period. You will join your TA, in their zoom room, when your laboratory section is scheduled to begin. This will help to build community and your TAs will run the laboratories and provide assistance with the content.
- **We will be taking academic integrity very seriously.** As we will not have lab partners, there is no reason students should turn in identical work. All work must be your own.
- **If your lab has a pre-lab assignment** it is due at the beginning of the laboratory. These assignments will help you prepare to engage during lab.
- **Laboratory worksheets** are due at the beginning of your next lab period.
- **Lab attendance:** You should plan to attend all of your labs, as scheduled. *If you are going to miss a lab, plan ahead to try to reschedule.* Laboratory worksheets are not accepted for grading or credit without lab attendance.
  - **Rescheduling Labs:** You may **reschedule one lab per quarter for a pre-planned absence, excused absence, or emergency:**
    - Labs may only be completed the week they are scheduled in the syllabus.
    - The rescheduling must be completed before your normal lab meeting time.
    - You will need approval from Dr. Barter and both your TA and the TA whose section you will work with that week.

For example, if you normally have lab on Monday but will be absent on Monday during week 5, you may attend that lab with a different section on Tuesday, Wednesday, or Thursday, as long as Dr. Barter, the TA from that lab period, and your normal TA approve the switch before your normally scheduled lab period.

***The labs are a required component of the class – you will automatically fail the class if you do not complete two or more labs. Please do not let this happen.***

Make sure that you understand this policy. It is a chemistry department policy that we must follow. **Please avoid missing labs!**

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## INCLUSIVE LEARNING ENVIRONMENTS

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In this class, we will work together to develop a learning community that is both inclusive and respectful. Our diversity may be reflected by differences in race, culture, age, religion, sexual orientation, socioeconomic background, and a myriad of other identities and life experiences. The goal of inclusiveness, in a diverse community, encourages and appreciates expressions of different ideas, opinions, and beliefs, so that conversations and interactions that could potentially turn divisive turn instead into opportunities for intellectual and personal enrichment.

A dedication to inclusiveness requires respecting what others say, their right to say it, and the thoughtful consideration of others' communication. Both speaking and listening are valuable tools for furthering thoughtful, enlightening dialogue. Respecting one another's individual differences is critical in transforming a collection of diverse individuals into an inclusive, collaborative, and excellent learning community. Our core commitment shapes our core expectation for behavior inside and outside of the classroom.

<b>CHEM 1003 Lab Schedule</b>							
Week	Sun	Monday	Tuesday	Wednesday	Thursday	Friday	Sat
<b>1</b>				March 31	April 1	2	3
		First Week of Classes – No Labs This Week					
<b>2</b>	4	5	6	7	8	9	10
		Lab 1: Polymers					
<b>3</b>	11	12	13	14	15	16	17
		Lab 2: Title TBD					
<b>4</b>	18	19	20	21	22	23	24
		Lab 3: Title TBD					
<b>5</b>	25	26	27	28	29	30	May 1
		Lab 4: Video Project Work and Update TA on Progress					
<b>6</b>	2	3	4	5	6	7	8
		Lab 5: Title TBD					
<b>7</b>	9	10	11	12	13	14	15
		Lab 6: Title TBD					
<b>8</b>	16	17	18	19	20	21	22
		Lab 7: The Lactase Enzyme					
<b>9</b>	23	24	25	26	27	28	29
	Video Projects Due by 5:00 pm	Lab 8: CHEM 1003 Video Project and Screening					
<b>10</b>	30	31	June 1	2	3	4	5
		Memorial Day No Labs	NO LABS FOR Tuesday, Wednesday, or Thursday Students: Study for Exams!				
<b>11</b>	6	7	8	9	10	11	
		No Labs (Lab #8 is the last lab of the quarter)					

**\*\*Note:** Most of the laboratories are listed as “Title TBD”, as I want to have the flexibility to be able to adapt and write new laboratory content as we progress through this unique quarter.

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## ONLINE AND WEB-SUPPORTED CLASSES

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It is your responsibility to procure reliable, readily-accessible Internet service in order to fulfill course expectations. I am under no obligation to accept late assignments or waive required tasks (e.g., discussion participation) due to lack of online access or malfunctioning computer hardware. Please consider identifying an alternative Internet source in case of technical problems. Computer help is available from [University Technology Support \(UTS\) Help Center](#).

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## ACADEMIC HONESTY

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I encourage you to do your CHEM 1003 coursework in groups. Some of your best learning can happen when you explain what you know to someone who doesn't understand. **However, all work that you turn in must be your own**. If two identical assignments are turned in, both students will receive grades of zero.

**Integrity:** acting in an honest and ethical manner

**Respect:** honoring differences in people, ideas, and opinions

**Responsibility:** accepting ownership for one's own conduct

For more information, consult these resources:

DU Honor Code Statement: <http://www.du.edu/studentlife/studentconduct/index.html>

DU Policies for Student Conduct: <http://www.du.edu/studentlife/studentconduct/policies/>

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## DISABILITY SERVICES PROGRAM

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Any student who feels that they may need an accommodation based on the impact of a disability should contact the Disability Services Program (DSP) in a timely manner to coordinate reasonable accommodations. Information is available online at <http://www.du.edu/disability/dsp>; see the *Handbook for Students with Disabilities*. DSP will provide me with an official notice of accommodations so I can provide support. I cannot provide accommodations without this step.

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## LEARNING EFFECTIVENESS PROGRAM

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The Learning Effectiveness Program (LEP) provides academic support services beyond basic academic accommodations. <http://www.du.edu/studentlife/learningeffectiveness>

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## HEALTH AND COUNSELING CENTER

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The Health & Counseling Center (HCC) provides many medical and mental health services. <http://www.du.edu/health-and-counseling-center/>

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## RESTRICTION OF AUDIO OR VISUAL RECORDING, REPRODUCTION, AND DISTRIBUTION OF CONTENT IN ONLINE COURSES

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At the University of Denver, we protect the intellectual property of all our faculty, and safeguard the privacy of all our students in online learning environments. To this end, students may not record, reproduce, screenshot, photograph, or distribute any video, audio, written, or visual content from their online courses.

This restriction includes but is not limited to:

- Pre-recorded and live lectures or laboratories
- Live discussions
- Discussion boards
- Simulations
- Posted course materials
  - *Students who post to, or copy work from, any web environment (such as Chegg or Course Hero) will be reported to the Office of Student Rights & Responsibilities.*
- Faculty feedback forms
- Visual materials that accompany lectures/discussions, such as slides
- Virtual whiteboard notes/equations, etc.

As we engage in online learning as an academic community, it is imperative to be respectful of all. Keep in mind that if any student is identifiable in an online class recording, this may constitute a violation of the educational record protections provided under FERPA.

- **Students who violate this policy will be reported to The Office of Student Rights & Responsibilities and may be subject to both legal sanctions for violations of copyright law and disciplinary action under *Student Rights & Responsibilities Policies*.**