

WORLD OF CHEMISTRY LABORATORY
CHEM 110 Spring 2021 21:160:110

Lecture Instructor: Karen Chaffee

Email: kchaffee@newark.rutgers.edu

Office location: Collaborate

Tentative Office Hours: I will be available during your class time and by appointment to meet with you in Collaborate. Please email to arrange, or come to class because I will often/normally be there.

COURSE DESCRIPTION:

A basic chemistry laboratory course designed for non-science students. Students completing this course will work safely in a chemistry laboratory and become skilled at working with a variety of equipment, learn about what chemists do, use quantitative and creative thinking and use scientific modes of inquiry.

REQUIRED MATERIAL

You will need a calculator and you may find a metric ruler handy

Meeting Times:

Section	Day	Time	Location
01	Friday	8:30-11:20 AM	distance learning
02	Tuesday	1:00-3:50 PM	distance learning
03	Wednesday	8:30-11:20 AM	distance learning
04	Friday	1:00-3:50 PM	distance learning

Grading:

Your grade is a SUM of your points from labs and BIG QUIZZES and some introductory exercises.

The maximum number of points is 1000.

In Lab:

There will be a Blackboard item for each lab, each lab session, in Course Documents.

I will load word docs (hand out) on how to do the lab. I will record a lecture and/or load power points on how to do the lab. You should listen to/look at these first. I will load this before your lab session starts.

During lab a TA or myself will be in Collaborate session at all times. You are not supposed to do the lab without help. We have people to help you during class time.

The lab will open at 1PM and will typically begin by having you listen to a pre-recorded lecture. Then you will watch a lab video. Then you will take a quiz on what you learned. I will often load the material ahead of time so you can get started.

Next, you will do a sort of mock lab on Blackboard. You will be given results to lab procedures; you will be asked questions and/or you will do activities. (Again, I will often load the material ahead of time so you can get started early.)

There will typically be a written assignment, perhaps a graph, or drawing, or summary of the lab.

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I will list (on Blackboard) all the requirements for each lab. I will go over it in my pre-lecture and you should join the Collaborate session during your class time so we can explain it better. Distance lab is a challenge, so please bring any concerns to me and I will try to help. You are allowed to ask for help before you submit anything. You are not supposed to do the labs without help.

The TAs will be available during class time to answer questions. However, you will have days to do your lab, or perhaps a week, depending on the lab.

Every few weeks we will have a BIG QUIZ to quiz you on your lab and what you have learned. These quizzes will be given in during lab time, so you must take them then. You must do the BIG QUIZ on your own, but it is open book/open notes.

COURSE POLICIES

1. Laboratory session will be online and open for days, often more. However, someone will be in Collaborate to help you **during scheduled class times only**. After that, you might not get the same help.

2. Please remember that you have signed up for a lab course that has structured times. I cannot reopen labs once they are closed, and you will have to do a make-up lab (a different lab) if you do not complete the lab during the generous time period I will offer. You may need an excuse to do the make up lab.

DOCUMENTED valid university-accepted excuses: sickness, death in the family, religious holiday, power outage, other valid excuses. Valid documentation must be provided.

If you know that you will never have time during lab days to do your lab, or that you will not have internet access during lab days, you need to contact me right away. Otherwise, you must do and submit the lab during the time it is open.

3. During lab time, log in and see what is needed. (You may also log in before that time, if you want to get an early start.) The go to Collaborate if you have questions. There will be (hopefully) other students. There will be TAs discussing the lab.

If you have technical problems or need technical accommodations, you need to tell me or your TA during lab period. There may be graphs and word docs you need to complete and turn in. You might find that some things or pictures don't download on your device--I can likely accommodate you if you tell me early (for example, I can email them).

You are taking a risk if you log in to do your lab at the last minute before it is due. A valid excuse must cover the entire lab period, not the very last hour before it is due. I.e., if you wait until the very last hour of a 5-day period to log in, and then find the pictures take a longer time to download on your phone than you expected, that is not a good excuse. Please start early!

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There were students last semester who logged in the last hour of the last day and found they could not complete the lab, sometimes for technical reasons. They did not get an extension.

If you don't tell us early, and you find you can't do the lab, we cannot accommodate you. If you know you will never be able to log in during lab time (you work, for example) bring that to my attention and/or to your TA's attention. We can work with you. If you do not have internet access at home, please bring that to my attention. I will need the chemistry department and the summer session to work with us in that case.

Also, these are very difficult times. If you have circumstances due to the times, I want to help you and the university wants to help you. If you communicate with me, I can work with you, or a member of our university staff can work with you, and my experience is that Rutgers has very caring people.

4. This lab has an important live component--i.e., TAs in Collaborate waiting to help you. It was designed that way. You are not meant to figure out everything on your own. We can walk you through the lab, explain what isn't clear, and try to help you picture things. We do not expect you to do the lab by yourself. But please ask for help during their work hours or arrange some other accommodation with me or your TA.

I have done my best with videos and posted lectures, but that can never take the place of live interaction, which we have provided for you. There are of course students who figure the labs out on their own, for those students keep doing what you are doing. Collaborate isn't mandatory.

Spring 2021 Lab Calendar

You should follow along in Course Documents to understand what you need to do.

Please log in to Blackboard every single week to see your lab.

Week No.	Experiment
1	Safety video and first lab lecture 30 points
2	Metric System and Calibrate 85 points
3	Calibrate II and III, and Graphing Concentration vs Density 85 points
4	Physical Properties /Crime Scene Investigation 85 points

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5	BIQ QUIZ I -- 97 points
6	Distillation and Separation 85 points
7	Vinegar Analysis (titration) 85 points
8	Chromatography 85 points
9	Big Quiz II -- 97
10	Spot Tests part I and Reactions 85 points
11	Spot Tests part II and Reactions 85 points
12	Make up week (date to be announced)
13	Make up week (date to be announced)
14	BIG QUIZ III -- 96 points (date to be announced)

Total points 1000

As an academic community dedicated to the creation, dissemination, and application of knowledge, Rutgers University is committed to fostering an intellectual and ethical environment based on the principles of academic integrity. Academic integrity is essential to the success of the University's educational and research missions, and violations of academic integrity constitute serious offenses against the entire academic community. The entire Academic Integrity Policy can be found here:

<http://academicintegrity.rutgers.edu/>

Accommodation and Support Statement

Rutgers University Newark (RU-N) is committed to the creation of an inclusive and safe learning environment for all students and the University as a whole. RU-N has identified the following resources to further the mission of access and support:

For Individuals with Disabilities: The Office of Disability Services (ODS) is responsible for the determination of appropriate accommodations for students who encounter barriers due to disability. Once a student has completed the ODS process (registration, initial appointment, and submitted

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documentation) and reasonable accommodations are determined to be necessary and appropriate, a Letter of Accommodation (LOA) will be provided. The LOA must be given to each course instructor by the student and followed up with a discussion. This should be done as early in the semester as possible as accommodations are not retroactive. More information can be found at ods.rutgers.edu. Contact ODS at (973)353-5375 or via email at ods@newark.rutgers.edu.

For Individuals who are Pregnant: The Office of Title IX and ADA Compliance is available to assist with any concerns or potential accommodations related to pregnancy. Students may contact the Office of Title IX and ADA Compliance at (973) 353-1906 or via email at TitleIX@newark.rutgers.edu.

For Absence Verification: The Office of the Dean of Students can provide assistance for absences related to religious observance, emergency or unavoidable conflict (e.g., illness, personal or family emergency, etc.). Students should refer to [University Policy 10.2.7](#) for information about expectations and responsibilities. The Office of the Dean of Students can be contacted by calling (973) 353-5063 or emailing deanofstudents@newark.rutgers.edu.

For Individuals with temporary conditions/injuries: The Office of the Dean of Students can assist students who are experiencing a temporary condition or injury (e.g., broken or sprained limbs, concussions, or recovery from surgery). Students experiencing a temporary condition or injury should submit a request using the following link: <https://temporaryconditions.rutgers.edu>.

For English as a Second Language (ESL): The Program in American Language Studies (PALS) can support students experiencing difficulty in courses due to English as a Second Language (ESL) and can be reached by emailing PALS@newark.rutgers.edu to discuss potential supports.

For Gender or Sex-Based Discrimination or Harassment: The Office of Title IX and ADA Compliance can assist students who are experiencing any form of gender or sex-based discrimination or harassment, including sexual assault, sexual harassment, relationship violence, or stalking. Students can report an incident to the Office of Title IX and ADA Compliance by calling (973) 353-1906 or emailing TitleIX@newark.rutgers.edu. Incidents may also be reported by using the following link: tinyurl.com/RUNReportingForm. For more information, students should refer to the University's Student Policy Prohibiting Sexual Harassment, Sexual Violence, Relationship Violence, Stalking and Related Misconduct located at <http://compliance.rutgers.edu/title-ix/about-title-ix/title-ix-policies/>.

For support related to interpersonal violence: The Office for Violence Prevention and Victim Assistance can provide any student with confidential support. The office is a **confidential resource** and does *not* have an obligation to report information to the University's Title IX Coordinator. Students can contact the office by calling (973) 353-1918 or emailing run.vpva@rutgers.edu. There is also a confidential text-based line available to students; students can text (973) 339-0734 for support.

For Crisis and Concerns: The Campus Awareness Response and Education (CARE) Team works with students in crisis to develop a support plan to address personal situations that might impact their academic performance. Students, faculty and staff may contact the CARE Team by using the following link: tinyurl.com/RUNCARE or emailing careteam@rutgers.edu.

For Stress, Worry, or Concerns about Well-being: The Counseling Center has confidential therapists available to support students. Students should reach out to the Counseling Center to schedule an

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appointment: counseling@newark.rutgers.edu or (973) 353-5805. If you are not quite ready to make an appointment with a therapist but are interested in self-help, check out *TAO at Rutgers-Newark* for an easy, web-based approach to self-care and support: <https://tinyurl.com/RUN-TAO>.

For emergencies, call 911 or contact Rutgers University Police Department (RUPD) by calling (973) 353-5111.