



Extended General Chemistry I: SOLID GEMS

Chem 165 Fall 2021

Lecturer, Administrator & Coordinator:

Christine Altinis-Kiraz, Ph.D.

Email: altinis@chem.rutgers.edu

Lectures in person in AB 4225:

Monday/Wednesday/Thursday: 9:00 AM – 10:20 AM in AB 4225

Recitation Instructor:

Dr. Mary Emenike: me293@chem.rutgers.edu

Dr. Seema Sahni : sms790@chem.rutgers.edu

Recitations in person in CCB 1209: You should attend the section you registered for.

R1: Tuesday & Friday 9:00 AM – 9:55 AM

R2: Tuesday & Friday 11:00 AM – 11:55 AM

R3: Tuesday & Thursday 3:00 PM – 3:55 PM

R4: Tuesday & Thursday 5:00 PM – 5:55 PM

Text Book:

Required: *Chemistry: Structure and Properties* by Nivaldo Tro (2nd edition). Please note that practice problems that are noted on the course schedule are for you to try and are located at the end of each chapter noted in the Tro textbook and will not be graded.

Online Resources:

We'll be using Canvas: <http://canvas.rutgers.edu/> to post lecture notes, announcements, handouts, problems, quizzes, homeworks etc. Please check the site and your email frequently. You can access Canvas with your NetID. If you have problems accessing the course site please contact the RU IT helpdesk. You can set up your NetID <https://netid.rutgers.edu/index.htm>. From the same site please select "Service Activation" and activate your Zoom account so you can access the lecture recordings.

Netiquette:

Be Respectful - Be very mindful that all your communication with the course instructor, any instructional staff (recitation instructors, Learning Assistants, or Teaching Interns) and fellow classmates is respectful and does not border on being disrespectful, discourteous, inappropriate or abusive. If you encounter any disrespectful behavior from your fellow course participants, please let Dr. Altinis-Kiraz know. We all understand that navigating the college landscape can be challenging and can cause undue stress but please understand that we are all in this together.

Allow for time for responses to queries – Please understand that the course instructors have many other responsibilities and the standard time to wait for a response is a **full business day**. You will most likely receive a response sooner but please be aware of this standard before emailing the instructor multiple times about the same topic. If similar queries are received from multiple students, an announcement will be posted on Canvas. Please ensure that in Canvas settings you allow announcements from this course to be delivered into your inbox.

Be Professional - Coursework is more than learning facts; it is a professional activity. Your conduct in this course should reflect this. Your communication should follow standard rules for grammar and spelling (unless in an online chat) and be clear, concise, courteous, and to the point.

Academic Integrity:

To maintain and promote highest standards of academic integrity, you will be expected to adhere to the following Honor's Pledge on each quiz, exam, or homework. You will be asked a question for each exam and quiz.

"On my honor, I have neither received nor given any unauthorized assistance on this examination"

Students are expected to maintain the highest level of academic integrity. You should be familiar with the university policy on academic integrity (<http://nbacademicintegrity.rutgers.edu/home/academic-integrity-policy/>). Violations will be reported and enforced according to this policy: <https://nbprovost.rutgers.edu/academic-integrity>

Use of external website resources such as Chegg.com or others to obtain solutions to homework assignments, quizzes, or exams is cheating and a violation of the University Academic Integrity policy. Fabricating an excuse that cannot be independently verified by your instructor is also a violation of academic integrity and will be treated accordingly. Cheating in the course may result in grade penalties, disciplinary sanctions or educational sanctions. Posting homework assignments, or exams, to external sites without the instructor's permission is a violation of copyright.

Misuse of Intellectual Property:

Almost all original work is the intellectual property of its authors. These works may include syllabi, lecture slides, recorded lectures, homework problems, exams, recitation worksheets and other materials, in either printed or electronic form. The authors may hold copyrights in these works, which are protected by U.S. statutes. Copying this work or posting it online without the permission of the author may violate the author's rights. More importantly, these works are the product of the author's efforts; respect for these efforts and for the author's intellectual property rights is an important value that members of the university community should take seriously.

Posting such material could lead to violation of copyright.

Keeping our Solid Gems Community Safe:

In order to protect the health and well-being of all members of the University community, masks must be worn by all persons on campus when in the presence of others (within six feet) and in buildings in non-private enclosed settings (e.g., common workspaces, workstations, meeting rooms, classrooms, etc.). Masks must be worn during class meetings; any student not wearing a mask will be asked to leave.

Masks should conform to CDC guidelines and should completely cover the nose and mouth:

<https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/about-face-coverings.html>

Each day before you arrive on campus or leave your residence hall, you must complete the brief survey on the My Campus Pass symptom checker self-screening app.

Should you need to take extended time off, please contact your Dean of Students for absences that will be more than 4 days.

To promote better hygiene, we will require students to bring their own markers and hand sanitizer to all course meetings especially recitations.

COVID contingency plans:

In the midst of the evolving situation associated with the pandemic, all instruction could be moved online with short notice. In such a case, instructional schedule will become synchronous remote. Class meeting times will not change.

We will use Zoom for our lecture and recitation delivery.

Active learning activities that require small group work will be conducted utilizing breakout rooms in Zoom.

Any change to exam format or delivery will be communicated via a Canvas announcement. A mini mock exam will be available in the appropriate format for you to practice taking the exam in.

Technology requirements:

We will expect you to bring your laptop/personal device to lecture in order to be able to participate in polls and utilize the whiteboard via Zoom. Because some of this will require group work, it will be sufficient for at least one group member to bring their laptop to class.

Calculator:

You must have a **non-programmable** scientific calculator for use on exams and quizzes. The calculator should have the capability of handling logarithms and scientific notation.

Assessments:

Chemistry by nature requires building on base knowledge and hence assessments will require cumulative knowledge to master and successfully complete chemistry. However, use of external websites, tutoring sites are not permitted and counterproductive as you will only have a very limited time to answer each question on the any online-assessment such as quizzes.

In-person Exams:

Paper exams will be administered during the lecture at the noted dates. Any change of the exam dates will be announced in class and noted in Canvas under the module important dates. You can use a non-programmable scientific calculator. Exam questions will consist of multiple choice, true/false, fill-in the blank, or open-ended questions. All exams will be given during the lecture and therefore there should not be any exam conflicts.

Exam	Date	Day	Lecture numbers (subject to change) *	Time
Exam 1	09/22/2021	Wednesday	1-8	9AM – 10:20AM
Exam 2	10/13/2021	Wednesday	1-16	9AM – 10:20AM
Exam 3	11/10/2021	Wednesday	1-26	9AM – 10:20AM
Exam 4	12/01/2021	Wednesday	1-34	9AM – 10:20AM
Final	TBD	TBD	All lectures	TBD

Online Homework

This year, there will be two different modes of Homework submission. One will be via Canvas and graded. The other via the eLearning platform and is not graded.

Graded homework assignments will be submitted via Canvas utilizing Assignments. You **MUST** provide **handwritten** answers to the homework questions that are submitted through assignments. You can either export the PDF into “one note” and write out everything or write it out on paper and use Genius scan to create a multipage PDF.

Homework assignments may be made up from the problems in lecture and recitations. All answers submitted through assignments **must be hand-written as research has shown that muscle memory will help with recall of information.**

In addition, there will be non-graded e-Learning mastery practice problems. Although these are not graded, the mastery nature of the eLearning platform provides you with immediate feedback to items, which can inform you about your progress on these topics. On occasion, quiz and exam questions will be derived from the mastery practice homework. We encourage you to start working on these mastery problems early and continue practicing them as part of your study routine in order to keep up with material and to help retain previously learned material. These will be available throughout the semester and you are welcome to work on them at any time as you desire.

Homework No	Date Start	Submission Date
Practice HW (0 points)	Friday, 09/03/2021 9:00AM	Monday, 09/08/2021 11:59PM
HW 1	Friday, 09/17/2021 9:00AM	Monday, 09/20/2021 11:59PM
HW 2	Friday, 09/24/2021 9:00AM	Monday, 09/27/2021 11:59PM
HW 3	Friday, 10/01/2021 9:00AM	Monday, 10/04/2021 11:59PM
HW 4	Friday, 10/15/2021 9:00AM	Monday, 10/18/2021 11:59PM
HW 5	Friday, 10/22/2021 9:00AM	Monday, 10/25/2021 11:59PM
HW 6	Friday, 11/05/2021 9:00AM	Monday, 11/08/2021 11:59PM
HW 7	Friday, 11/19/2021 9:00AM	Monday, 11/22/2021 11:59PM
HW 8	Friday, 12/10/2021, 9:00AM	Monday, 12/13/2021 11:59PM

Online Quizzes:

Quizzes will be administered on Canvas. Each quiz will be released on Sunday at 9:00 AM and you will be given 20-25 minutes to complete the quiz. Once you begin a quiz you must complete it and accept the grade you earn. You will be given 4-6 questions and you will have 20 minutes to complete the quiz. We expect you to maintain high level academic integrity as the quizzes are skill building exercises to help prep you for the exams.

Quiz	Date Open-Date Closed <i>Duration: 20 mins, one attempt (Sunday 9AM to Monday 11:59PM)</i>	Lecture number (refer to course schedule for list of topics)
Practice	09/07/2021 – 9/08/2021	Math review
1	09/12/2021- 9/13/2021	1-4
2	09/26/2021- 9/27/2021	9-10
3	10/03/2021- 10/04/2021	11-12
4	10/10/2021- 10/11/2021	14-16
5	10/24/2021- 10/25/2021	17-21
6	10/30/2021-11/01/2021	22-24
7	11/14/2021-11/15/2021	25-27
8	12/06-12/07/2021- eLearning Mock Final- NOT via Canvas	1-32

Surveys/Exams Wrappers

Exam wrappers are metacognitive activities that will be conducted during the lecture where you will have a chance to review common mistakes made on exam questions and come up with problem solving strategies to ensure that you do not make mistakes on a similar problem that addresses the same or similar topic/concepts. Exam wrappers will be administered during the lecture through Canvas quizzes, and you will be placed in breakout groups to work on the problem together. Surveys will be administered throughout the semester that will allow you to provide us with feedback; we will use this feedback to inform real-time decisions about the course format, content, activities, and assignments.

Survey	Available	Due
Intro Survey	Tuesday, 09/07/2021 6:00 PM	Sunday, 09/12/2021 11:59 PM
Big 5	Tuesday, 09/07/2021 6:00 PM	Sunday, 09/12/2021 11:59 PM
Values Affirmation	Sunday, 09/19/2021 9:00 AM	Monday, 09/20/2021 11:59 PM
Exam 1 Wrapper	Thursday, 09/23/2021 9:00 AM	Thursday, 09/23/2021 11:59 PM
Exam 2 Wrapper	Thursday, 10/14/2021 9:00 AM	Thursday, 10/14/2021 11:59 PM
Mid-Semester Survey	Monday, 10/25/2021 12:00 PM	Monday, 11/01/2021 11:59 PM
Exam 3 Wrapper	Thursday, 11/11/2021 9:00 AM	Thursday, 11/11/2021 11:59 PM
Values Affirmation	Sunday, 11/21/2021 9:00 AM	Monday, 11/22/2021 11:59 PM
Exam 4 Wrapper	Thursday, 02/02/2021 9:00 AM	Thursday, 02/02/2021 11:59 PM
Exit Survey	Monday, 09/06/2021 9:00 AM	Monday, 12/13/2021 11:59 PM

Grades:

No grades are assigned per exam/quiz. The final grade will be determined based on the total percentage points accumulated by the individual in comparison to the total percentage points accumulated by the rest of the class. B+ and C+ grading scheme will be determined based on class averages at the end of the course. In order to earn an A in the course, you must earn 80% of the total points available.

Assessment/Graded activity	Percentage of Total Grade	Grading Scale based on total percentage of points earned
Four Exams (large quizzes)	40% (10% each)	A > 80% B 70-80% C 56-69% D 55-50% F < 49% <i>Please note that the B+ and C+ will be determined based on class standing and averages. A good attendance score can help boost your grade if you end up being borderline. You can miss 3 class meetings and still remain in good standing.</i>
Quizzes (no late submissions)	20%	
Surveys/Exam wrappers	5%	
Online Homework	15%	
Attendance	Grade boost for borderline students	
Comprehensive Mandatory Final	20%	
Total	100%	

Attendance:

Attendance is required for success in the course. As an incentive, a good attendance record can help boost your grade if you end up being borderline. Your recitation group work must be submitted by each individual members of the group on Canvas.

Missed/Conflict Exams: All exams must be taken at the scheduled times and places.

If you fail to take an exam for any reason, you must provide a proof of a valid excuse accepted at your lecturer's discretion **or you will receive a grade of 0 for that quiz/exam. To be excused from an exam, you need to present your lecturer with a written notification from the Dean of your school (it's your responsibility to figure out who).**

Students with Disabilities:

If you have a disability, present your lecturer with the note from the Disability Services as soon as you receive it. Please take the necessary steps to provide your lecturer with the letter prior to the first exam/quiz. We need to receive a letter prior to the first assessment from your College's Disability Concerns Coordinator at Disability Services (732) 932-2848 or dsoffice@rci.rutgers.edu to ensure you get the accommodations you need.

Active Learning Instruction/Adjusting back to in-person instruction: Expectations/Recommendations

- Lectures will be recorded and made available through the Canvas course site.
- During lectures there will be several interactive segments which will require your participation.
 - You can ask questions publicly during the question segment
 - Students who post irrelevant, inappropriate, or distracting messages will be prevented from posting additional messages in the chat window during any of the recorded sessions.
- **Participation:** Student polling, attendance at all course sessions, submission of any group work via Canvas will help you earn a boost should you end up being borderline (please see the Grades section for more details).
 - **Polls:** The lecturers will be using the polling feature of Zoom. If you see a poll, take your time to answer the question to the best of your ability. Your responses will inform the lecturer how well the class is understanding the material. You will not be graded on your answers to the poll questions, but answering poll questions counts towards your class participation.
 - **One-minute graffiti-** you are expected to bring your laptops to the classroom in order to be able to participate in this activity.
 - **DAPPS:** You will engage in periodic Dated, Achievable, Personal, Positive, & Specific goal setting and follow up with yourself to develop goal-setting and study habits using discussion posts.
 - **Synthesizing and Extending Lecture Notes:** Making flowcharts and concept maps and utilizing simulations to visualize molecules in 3D to develop representational competency will help you learn and retain newly acquired knowledge. You will be prompted to engage in such activities outside of class time.

Tutoring:

Free tutoring is available through the Rutgers Learning Center. Please visit their site for scheduling <http://rlc.rutgers.edu>