

CHM1020 CHEMISTRY FOR THE LIBERAL ARTS

FALL 2022

INSTRUCTOR INFORMATION

Instructor	Email/Office/Phone	Preferred Contact
Melanie Veige melveige@ufl.edu	Email in Canvas only 352-392-0518 CCB 103	Email through Canvas messaging Zoom office hours (TBA)

TEACHING ASSISTANT

Grad TA: Yinuo Yang

Email: through Canvas email; Office hours (via Zoom): see Canvas for schedule

[Broward Teaching Center](#) offers free virtual tutoring assistance. See their website for details.

COURSE DELIVERY/MEETING TIMES

The course is 100% online/asynchronous. Students read through the text material and watch recorded lecture videos such that they keep up with the posted course schedule. Office hours are scheduled regularly during which time students may attend to ask course related questions. Outside of office hour times, students can post questions to the course Discussion Boards or use Canvas email.

COURSE FEES

Additional Course Fees: \$27.99

AUDIO/VIDEO PRESENCE POLICY

As in all courses, unauthorized recording and unauthorized sharing of recorded materials are prohibited.

Full audio and video presence are required for proctored tests administered by Honorlock.

GENERAL INFORMATION

PREREQUISITES

High school algebra.

COURSE DESCRIPTION AND GOALS

CHM 1020 is a terminal chemistry course for non-science students that presents the basic concepts of chemistry and examines the role of chemistry in both consumer products and the environment. (P)

By the end of this course, students should be able to analyze media as it pertains to topics related to chemistry, including the ability to interpret tables of data and graphs of various forms. Students will be competent in using mathematics to solve problems in chemistry. Students will be able to understand basic concepts related to atomic and molecular structure, and relationships between heat and energy. Students will be able to apply these concepts to explain the molecular and physical basis for climate change, solution chemistry, and atmospheric chemistry.

FIRST DAYS

Log into Canvas and access the course. You should check daily for new Announcements and/or emails containing important information and reminders. Click on the *Syllabus* tab to view all due dates for the entire semester. This will not change over the course of the semester. Click on *Modules* and read all of the information under the *Settling In* section. Many of your questions are answered in the *Settling In* section including: Which types of calculators are approved? What is Honorlock? Where do I do the homework? How do you get help? Can assignments be submitted late? What does the formula sheet for an exam look like? This syllabus document *and* the information in *Settling In* comprise the material for the Syllabus Quiz.

GENERAL EDUCATION OBJECTIVES AND LEARNING OUTCOMES

Primary General Education Designation: Physical Sciences (P) ([area objectives available here](#))

A minimum grade of C is required for general education credit. Courses intended to satisfy the general education requirement cannot be taken S/U.

Physical science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the physical sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern physical systems. Students will formulate empirically-testable hypotheses derived from the study of physical processes, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

In Chemistry for the Liberal Arts, these objectives will be met in a variety of ways detailed below.

At the end of this course, students will be expected to have achieved the following learning outcomes in content, communication, and critical thinking:

Content: *Students demonstrate competence in the terminology, concepts, theories and methodologies used within the discipline.* Students will acquire a basic knowledge of a variety of chemistry concepts in the context of everyday life, including portable electronics, climate change, genetic engineering and nutrition. Achievement of this learning outcome will be assessed largely through assigned homework problems, and also interactive simulations, projects, and analysis of news articles related to the content.

Communication: *Students communicate knowledge, ideas, and reasoning clearly and effectively in written and oral forms appropriate to the discipline.* Students participate in class discussions throughout the semester to reflect on pertinent topics, some of which involve participation in online simulations. Students analyze news articles on a weekly basis and are required to summarize and indicate relevance of each to the course.

Students complete projects which require written responses. Achievement of this learning outcome is largely assessed by Discussion, Project, Journal, and Interactive Assignments.

Critical Thinking: *Students analyze information carefully and logically from multiple perspectives, using discipline-specific methods, and develop reasoned solutions to problems.* Students prepare presentations (projects) for each section of the course that requires research and analysis of work done by multiple authors. Students also curate and analyze news articles on a weekly basis. Achievement of this learning outcome is largely assessed by Project, Journal, and Interactive Assignments.

COURSE LEARNING OUTCOMES

A complete list of student learning outcomes is posted in Canvas, organized by module/chapter.

REQUIRED & RECOMMENDED COURSE MATERIALS

TEXTBOOK (ONLINE EBOOK WITH HW; REQUIRED IN FULL)

A significant portion of your grade stems from electronic homework (SmartBook assignments, both terms may be used) associated with an ebook (*Chemistry in Context: Applying Chemistry to Society*, 10th ed., McGraw-Hill). There are two options for purchasing access to homework/ebook: **Option 1:** consent to have the purchase price charged to your student account following the directions posted on the course homepage in Canvas; this is a time-limited option after which only Option 2 is available. **Option 2:** purchase an access code for the materials at the UF Bookstore (at a slightly higher price).

To opt in, navigate to: <https://bsd.ufl.edu/allaccess>. Click the "Opt In" tab or view the "View Eligible UF All Access Classes" button. You will be prompted to log in using Gatorlink credentials. Follow the prompt to authorize charges to your student account. The access code will then be provided. Copy the access code to your clipboard. In the Canvas course, click on the McGraw-Hill Connect tab. Provide the access code when prompted to do so. If you have any questions about the authorization process or refunds contact Included@bsd.ufl.edu.

A paperback version of the text is completely optional. The bookstore may stock paper versions of the text, or you can order one directly through the McGraw Hill website. A paper version is on reserve at the Marston Science Library for reference purposes.

See the course homepage in Canvas for detailed information about acquiring and redeeming the access code. You can begin immediately using a free trial, and purchase the access code during the first week or so of class.

All other assigned material will be available through Canvas.

CALCULATOR

You will require a calculator capable of logarithmic functions.

WEBCAM/MICROPHONE/SPEAKERS

You are required to have a functioning webcam, microphone, and speakers for proctored exams. See the minimum technical requirements at honorlock.com/support. Ensure your computer system meets their

minimum system requirements. You are also required to have a handheld mirror/reflective surface for proctoring.

COURSE TECHNOLOGY

The student may require Adobe Acrobat Reader, Adobe Flash Player, Microsoft Silverlight and other software. Free tutorials on many software applications can be found at Lynda.com. All UF students are expected to have reliable access to a computer, especially for an online course. Honorlock has specific hardware/software requirements: honorlock.com/support. Check the support page for McGraw-Hill for technical support using their platform: <http://www.mheducation.com/highered/platforms/connect/training-support-students.html> .

COURSE COMMUNICATIONS

GENERAL QUESTIONS

General course questions should be posted to the Discussion: Course Q&A in Canvas. The instructor/TA response time is <48 h (typically <24 h) during the work week.

I encourage you to post questions related to homework or end of chapter questions you're working on to the Discussion board. The homework isn't meant to be a test, it's a learning tool. For the best response, take a screenshot of your question and/or the solution you propose. The more information you provide, the easier it is for your instructor/TA/another student to help.

PRIVATE OR GRADE-RELATED QUESTIONS

Direct these to your instructor via the mail function in Canvas. Do not email outside of Canvas to your instructor's external email address – we aren't permitted to discuss grade related questions outside of Canvas. You will be asked to resend the query through Canvas.

COURSE POLICIES

SYLLABUS QUIZZES/SURVEYS

You can submit these assignments late, with a 10% penalty per day submitted late. Make sure to open and submit the quizzes for all attempts prior to the due date to avoid the late penalty. Note that even 1 s past the due date counts as a whole day late.

QUIZZES

Sectional quizzes are delivered through the McGraw Hill platform. These quizzes are not proctored, but are timed, and are subject to the Honor Code. When you're ready to begin, simply click the link. You will have three attempts at each quiz, with the highest score counting for credit. You can submit quizzes late, with a 10% penalty per day submitted late, with the last possible date a quiz can be completed for any credit being the last day of term, 11:59 pm Dec. 7th.

Pay close attention to the due date/time, which is set to 11:59 pm EST "McGraw Hill time". This may differ slightly from the time on your computer/clock – ensure you begin well in advance of the due date/time or you may suffer a late penalty. There are no exceptions.

The two lowest quiz scores are dropped from your final course grade.

EXAMS

Three progress exams are administered using the Quizzes tool in Canvas. These exams are remotely proctored by Honorlock. Each exam is available over a range of dates. Exam dates are: Exam 1: Oct. 4-6; Exam 2: Nov. 3-7; Exam 3: Dec. 6-7.

Exam questions may include numeric entry, formula/algorithmic questions, multiple dropdown, matching, multiple answer, multiple choice, and multiple fill in blank questions.

Practice exams are available in Canvas for you to familiarize yourself with quiz navigation in Canvas.

PROGRESS EXAM “AVERAGE/REPLACE” POLICY

This applies to all students. No progress exam score will be dropped for any reason. To alleviate the stress of potential issues that do not fall under officially sanctioned absences, we have incorporated an “average/replace” policy: the lowest of the three progress exams will be replaced by the average of the three progress exams. This policy helps to minimize the impact of a single poor performance (it will not disappear, but will be minimized). For example, if a student scores the following on their three progress exams: 0%, 65%, 80%, the 0% would be replaced with the average of 0, 65 and 80, which is 48%. That is a much better score than a 0.

HONORLOCK

Honorlock will proctor your exams this semester. You do not need to create an Honorlock account, download software, or schedule an appointment for your exam. Honorlock is available 24/7 and requires a computer, webcam, microphone, and a stable internet connection.

To get started, you will need Google Chrome and to download the Honorlock Chrome Extension. You can download the extension at www.honorlock.com/extension/install.

When you are ready to test, log into Canvas, go to your course, and select your exam. Click “Launch Proctoring” to begin the Honorlock authentication process, during which you will take a picture of yourself, show your ID, and complete a scan of your room. You will need a small handheld mirror/reflective surface to show the camera underneath your table/desk, etc. Honorlock will record your exam session and record your screen.

If you encounter technical difficulties with Honorlock, contact Honorlock directly. You may live chat, phone (855-828-4004) and/or email support@honorlock.com. You should spend some time reading about their service and testing your system on their website. For other technical issues contact the Help Desk.

Extensive Honorlock documentation, including a student privacy guide, is available at <https://dce.ufl.edu/services/online-proctoring/>.

QUIZ/EXAM QUESTION DISPUTES

If you believe you have found an error on a quiz/exam or would like to dispute a question, the deadline for doing so is within 72 h of the assessment.

ATTENDANCE, EXTENSION REQUESTS

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

Exam absences will be handled in accordance with official UF academic regulations. For more information, see <https://catalog.ufl.edu/UGRD/academic-regulations/> . See below for further clarification for two different types of situations.

(1) Conflicts with other events: this should be rare, as CHM1020 proctored exams are available over a wide range of time. You should plan accordingly. Such reasons may include religious holidays, military obligations, special curricular requirements (e.g., attending professional conferences), or participation in official UF-sanctioned activities such as athletic competitions, etc. For more information on such absences see the official UF Policy at <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/#absencestext>). If you must be absent for an exam due to a documented and approved conflict known in advance, you must e-mail your instructor (within Canvas) the documentation at least one week prior to the scheduled exam and an early conflict exam will be scheduled for you.

(2) Missing an exam due to an emergency or sudden illness: If you are absent for an exam due to an unpredicted documented medical reason or family emergency, you must contact the instructor as soon as possible, and you may be asked to have your excuse verified by the Dean of Students Office (DSO). Your instructor will follow UF academic regulations in evaluating the notification and/or documentation received from you or from the DSO on your behalf. Once your instructor is satisfied with the validity of your exam absence a make-up exam will be scheduled after a reasonable amount of time, i.e., before the end of the semester. If your documentation is deemed insufficient to excuse your absence you will receive a zero on the missed exam.

SMARTBOOK

Access the electronic homework directly from within Canvas. Each Smartbook assignment is estimated to require approximately 1-2 h to complete (this will vary by student) and covers one chapter in its entirety. Smartbook assignments are submitted as-is at their due dates/times; they cannot be completed late for credit. You will receive credit for whatever portion of the assignment you have completed by that time. You can review Smartbook assignments for exam preparation if desired after the due date without affecting your recorded score.

The two lowest Smartbook grades are dropped from your overall course grade.

DISCUSSIONS

The student is expected to contribute to threaded discussions according to the advertised timeline in Canvas. Discussions can be posted late, with a penalty of 10% per day submitted late, with the last possible date a quiz can be completed for any credit being the last day of term, 11:59 pm Dec. 7th. Ensure you post and follow up before the due date to avoid the late penalty. Post early and check your post/response. Pay close attention to the time – official Canvas time may differ slightly from the time on your computer/clock. Emailed submissions are not considered for credit. For each, the initial discussion post is graded as the final assignment submission, so make sure you post accordingly; students cannot edit or delete their posts.

The one lowest discussion grade is dropped from your overall course grade.

JOURNAL ASSIGNMENTS, INTERACTIVE ASSIGNMENTS, AND PROJECTS

Each module involves both a journal assignment and an interactive assignment, submitted in Canvas, with detailed grading rubrics. These are to be completed individually. Assignment instructions will specify the format of the assignment, which may involve free response, creation of PowerPoint/Google Slides presentations, etc. corresponding to each topic. Both of these assignment types can be turned in late for reduced credit (-10% per day submitted late). The last possible date any assignment can be completed late is the last day of term, Dec. 7th, at 11:59 pm.

There are four Projects, assigned to correlate with the course thusly: Chapters 1-2, Chapters 3-4, Chapters 5-7, and Chapters 11-13. Instructions will specify how the assignments are to be completed, and each has a detailed grading rubric. Projects can be turned in late for reduced credit (-10% per day late) with the last possible date any assignment can be submitted being Dec. 7th at 11:59 pm.

Exam Option: Students can elect to complete three proctored exams to replace the weighted combined scores of the Journal Assignments + Interactive Assignments + Projects for each section of the course. Exam 1 can be used to replace that group of assignments for Ch. 1-4, Exam 2 for Ch. 5-7, and Exam 3 for Ch. 11-13. Each student can decide for themselves which option to follow for each of the three sections of the course as detailed in the grading scheme in the course syllabus. Grades cannot be mixed and matched – either the exam score is counted for each section, or all of the assignments for those chapters with the specified weights towards the grade. These exams are remotely proctored by Honorlock.

GRADING

GRADE POLICY

There is no extra credit available for this course. Grades are not rounded at the end of term. Exam grades or course grades are not curved.

Assignments weights are as follows:

Assignment Group	Weight %
Smartbook Assignments	20%
Quizzes	25%
Discussions	5%
Surveys and Syllabus Quizzes	2%
Ch. 1-4	16%
Grading Option 1*	
Interactive Assignments	4%
Journal Assignments	4%
Projects Ch. 1&2 and 3&4 (4% each)	8%
Grading Option 2	
Proctored Exam Ch. 1-4	16%

Ch. 5-7	16%
Grading Option 1*	
Interactive Assignments	4%
Journal Assignments	4%
Project Ch. 5&6	8%
Grading Option 2	
Proctored Exam Ch. 5-7	16%
Ch. 11-13	16%
Grading Option 1*	
Interactive Assignments	4%
Journal Assignments	4%
Projects Ch. 7&11 and 12&13	8%
Grading Option 2	
Proctored Exam Ch. 11-13	16%

Grade scale (note: there is no rounding to your score in Canvas):

Letter	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Cutoff	90.0	87.0	84.0	81.0	78.0	75.0	72.0	69.0	66.0	63.0	60.0	< 60.0

UNIVERSITY POLICIES

STUDENTS REQUIRING ACCOMMODATIONS

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting disability.ufl.edu/students/get-started. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit

at the University of Florida. The following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php>."

IN-CLASS RECORDING

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor. A "class lecture" is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session. Publication without permission of the instructor is prohibited. To "publish" means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

CAMPUS RESOURCES

U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit [U Matter, We Care website](#) to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: Visit the [Counseling and Wellness Center website](#) or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the [Student Health Care Center website](#).

University Police Department: Visit [UF Police Department website](#) or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the [UF Health Emergency Room and Trauma Center website](#).

GatorWell Health Promotion Services: For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit the [GatorWell website](#) or call 352-273-4450.

ACADEMIC RESOURCES

E-learning technical support: Contact the [UF Computing Help Desk](#) at 352-392-4357 or via e-mail at helpdesk@ufl.edu.

[Career Connections Center](#): Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

[Library Support](#): Various ways to receive assistance with respect to using the libraries or finding resources.

[Teaching Center](#): Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.

[Writing Studio](#): 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints On-Campus: Visit the [Student Honor Code and Student Conduct Code webpage](#) for more information.

On-Line Students Complaints: View the [Distance Learning Student Complaint Process](#).

FEEDBACK

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

NETIQUETTE

Please see the detailed Netiquette guide in the Settling In section of the Canvas course.

GETTING HELP

For issues with or technical difficulties with Canvas, contact the UF Help Desk: <https://lss.at.ufl.edu/help.shtml>; (352)-392-HELP.

Other resources are available at <http://www.distance.ufl.edu/getting-help> for Counseling and Wellness resources, disability resources, resources for handling student concerns and complaints, and library desk support.

DISCLAIMER

This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.

SCHEDULE

*The most up to date complete schedule is posted in Canvas. This document may have been updated since posting– check Canvas for details.

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
		Aug. 24	25	26
29	30	31 Discussion: Intro Collage	Sept. 1 Syllabus Quiz Quiz about Quiz/Exam Policies Netiquette Quiz	2 Ch. 1 Smartbook & Quiz Ch. 1 Journal
5 HOLIDAY	6	7	8	9
12	13 Ch. 2 Smartbook & Quiz Discussion: Ozone Interactive Assignment: Ozone Ch. 2 Journal Project: Ch. 1/2	14	15	16
19	20	21	22 Ch. 3 Smartbook & Quiz Ch. 3 Journal Discussion: Molecules & Light Interactive Assignment: Ch. 3	23
26	27	28	29	30
Oct. 3 Ch. 4 Smartbook & Quiz Ch. 4 Journal Discussion: Climate Change Interactive Assignment: Ch. 4 Project: Ch. 3/4	4	5	6 Optional Review: Smartbook Ch. 1-4 Exam 1: Ch. 1-4	7 HOLIDAY
10	11	12	13	14

			Ch. 5 Smartbook & Quiz Ch. 5 Journal Discussion: Water Footprint Interactive Assignment: Ch. 5	
17	18	19	20	21
24 Ch. 6 Smartbook & Quiz Ch. 6 Journal Discussion: Fuel Efficiency Interactive Assignment: Ch. 6	25	26	27	28
31	Nov. 1	2 Ch. 7 Smartbook & Quiz Ch. 7 Journal Discussion: Radiation Dose Project: Ch. 5-7	3	4
7 Optional Review: Smartbook Ch. 5-7 Exam 2: Ch. 5-7	8	9	10	11 HOLIDAY
14 Ch. 11 Smartbook & Quiz Ch. 11 Journal Discussion: Color Vision Interactive Assignment: Ch. 11	15	16	17	18
21	22 Ch. 12 Smartbook & Quiz Ch. 12 Journal Interactive Assignment: Ch. 12 Discussion: Functional Groups	23-25 HOLIDAYS		
28	29	30	Dec. 1	2

5	6 Ch. 13 Smartbook & Quiz Ch. 13 Journal Discussion: Gene Expression Project: Ch. 11-13	7 Optional Review: Smartbook Ch. 11- 13 Exam 3: Ch. 11-13	8/9 READING DAYS
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