

CHM1020 CHEMISTRY FOR THE LIBERAL ARTS

SUMMER B 2021

INSTRUCTOR/COURSE INFORMATION

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

TEACHING ASSISTANT

Yisel Martinez Noa. Office hours (via Zoom), times provided in Canvas.

Email: through Canvas email

COURSE DELIVERY/MEETING TIMES

This is a 100% online & asynchronous course. 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 (class number 10545)

A NOTE ABOUT THE CONDENSED SUMMER B TERM

This is the same course students complete over 16 weeks each fall and spring term, condensed into a 6 week period. You can expect the pace and workload of the course to be correspondingly intense. The course material and tasks are identical to those completed over 16 weeks.

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/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, student 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 WITH HW; REQUIRED IN FULL)

A significant portion of your grade stems from electronic homework (SmartBook assignments) 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.

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 24 h during the work week (expect to wait until Monday for questions posted on a Friday).

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 20% 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 20% 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 August 5th.

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 optional 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: July 14-18; Exam 2: July 26-28; Exam 3: Aug. 4-5.

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

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, or within 24 h of Exam 3.

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 45-60 min to complete 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 20% per day submitted late, with the last possible date a discussion can be completed for any credit being the last day of term, 11:59 pm Aug. 5th. 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.

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 (-20% per day submitted late). The last possible date any assignment can be completed late is the last day of term, Aug. 5th, 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 (-20% per day late) with the last possible date any assignment can be submitted being Aug 5th at 11:59 pm.

Exam Option: Students can elect to complete three proctored exams to replace the 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

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES

Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking quizzes or exams. 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>."

U MATTER, WE CARE

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress,

please contact umatter@ufl.edu so that the U Matter, We Care team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing Staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

FEEDBACK

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/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.

These objectives are accomplished through participation in the course, and individual work done on homework assignments and assessments.

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 |
|-----------------------|------------------|-----------|--|--|
| June 27 (Drop/Add) | 28 (Drop/Add) | 29 | 30 Syllabus Quiz Quiz about Quiz/Exam Policies Netiquette Quiz | July 1 Discussion: Intro Collage |

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|--|---|--|--|---|
| 4 Ch. 1&2 Smartbooks Ch. 1&2 Quizzes Journal: Ch. 1 & Ch. 2 Discussion: Ozone Interactive Assignment: Ozone Project: Ch. 1/2 | 5 | 6 | 7 | 8 |
| 11 | 12 Ch. 3&4 Smartbooks Ch. 3&4 Quizzes Journal: Ch. 3 & Ch. 4 Discussions: Molecules & Light; Climate Change Interactive Assignments: Ch. 3 & Ch. 4 Project: Ch. 3/4 | 13 | 14 | 15 Optional Review Smartbook Ch. 1-4 Exam 1: Ch. 1-4 |
| 18 | 19 | 20 Ch. 5&6 Smartbooks Ch. 5&6 Quizzes Journal: Ch. 5 & Ch. 5 Discussions: Water Footprint; Fuel Efficiency Interactive Assignments: Ch. 5 & Ch. 6 | 21 | 22 |
| 25 Ch. 7 Smartbook Ch. 7 Quiz Discussion: Personal Radiation Dose Journal: Ch. 7 | 26 | 27 | 28 Optional Review: Smartbook Ch. 5-7 Exam 2: Ch. 5-7 | 29 Ch. 11 Smartbook Ch. 11 Quiz Discussion: Color Vision Journal: Ch. 11 |

| | | | | |
|------------------|---|---|---|--|
| Project: Ch. 5-7 | | | | Interactive Assignment: Ch. 11 |
| Aug. 1 | 2 | 3 | 4 | 5 Ch. 12&13 Smartbooks Ch. 12&13 Quizzes Journal: Ch. 12 & Ch. 13 Discussions: Functional Groups; Gene Expression Interactive Assignment: Ch. 12 Project: Ch. 11-13 Optional Review: Smartbook Ch. 11-13 Exam 3: Ch. 11-13 |