

Chemistry and Society

Course Syllabus

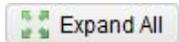
Chem 100: Chemistry and Society
Fall 2018

You are at the syllabus page for the course.

Syllabus Instructions

(Thu Jan 03, 2019 12:00 AM - Mon May 13, 2019 11:55 PM)

This new **Syllabus** tool uses sections, and each section can be opened by clicking the section heading.

 **Expand All** button at the top will open ALL sections.  **Print View** button at the top will create a continuous file, which can be printed or saved as a PDF.

Welcome

Welcome to Chem 100. This is a chemistry class for non STEM majors. Also, if you need to take one science class, this is a good one to take. In this course we see how science has affected contemporary life. We will cover some basic chemistry, but the majority of the class is on how science and society interact. For instance, we will cover how we generate electricity but also how different ways of generating electricity will affect the environment.

Instructor Information



Instructor: Professor Michael Ferguson

Office: UHMC Ike Lea 138

Office Hours: MW 4:15-5:15; T 1-4

Virtual Office: Skype, HIChemistry

Phone: (808) 984-3312

Email: mferguso@hawaii.edu or use Lulima Messages tool

Note: During normal week hours I will respond within a day. On the weekend or holidays I may not respond until the following business day.

Course Information

Course Purpose

To provide non STEM students an overview of natural science and how it affects and shapes society.

Course Description

Provides an introduction to chemistry for non-science majors. Reviews basic chemistry concepts and their application to everyday life. Provides a survey of concepts and applications of chemistry with emphasis on the role of chemistry in the real world.

Course Content

basic chemistry, nuclear chemistry, atomic structure, chemical bonding, stoichiometry, intermolecular forces, acids and bases, oxidation and reduction, organic chemistry, biochemistry, polymers, earth science, air, water, energy, food, and drugs.

Course Communication

I will send weekly announcements to the class and I will be available via email or through laulima.

Academic Prerequisites

- *ENG 22 with grade C or better or placement at least ENG 100, and MATH 75 with grade C or better or placement at least MATH 115*
- or consent
- Keyboard and [basic computer skills](#)
- Add other prerequisite skills necessary as related to your course.

Course Learning Outcomes

1. To learn the elements and principles of chemistry
2. To develop skills in employing the scientific method of learning
3. To learn how to extract practical information from theoretical information
4. To appreciate the impact and influence of chemistry on our lives, and to learn how we can cope with our environment using our knowledge of chemistry.

Program Learning Outcomes

1. Explain the natural and technological world using reflection and quantitative analysis including preparation of a plan to collect, process, and interpret data; evaluation of the plan, procedures, and findings; and communication of the conclusions;
2. Explain scientific knowledge and understanding to different audiences for a range of purposes; and
3. Apply scientific knowledge, skills, and understandings to problems and issues in daily life.

Required Materials and Technology

Textbook, OER Resources or Recommended Materials

Supplies

- Chemistry for Changing Times 12th ed.
- Lab kit eSciencelabs Chemistry kit 4, 2nd ed. (for those taking the labs)

Required Hardware and Software

- MS office
- A more recent model desktop or laptop (2014 or later model), either Windows or Mac
- Reliable high-speed (Cable or DSL) Internet connection
- A recent version of Firefox Browser. Download from <https://www.mozilla.org/en-US/firefox/new/> if you don't have

it.

- [Adobe \(Acrobat\) Reader](#). Download is free.

Technical Skill Requirements

Students should be able to create and edit word documents. Students should be able to navigate laulima (sakai learning management system).

Course Format and Outline

Course Format

There are 11 modules. Test after Mods 4, 7, and 10. Final after mod 11. For the lab, ten experiments. That is only for students enrolled in the lab.

Grading Policies

Grading Breakdown

Grades will be based on the following weighted categories (subject to change):

Assessment	% of Grade
Test 1	15%
Test 2	15%
Test 3	15%
Final	45%
Forums	10%
Total	100%

Assessment Descriptions

Tests follow each series of mods: test 1 for Mod 1-4; test 2 for Mod 5-7; test 3 for Mod 8-10; final for mods 1-11. Write in each forum topic and respond to at least one student.

Grading Policy

Grade	Percent
A	100-90%
B	89-80%
C	79-70%
D	69-60%
F	Below 60

No late tests will be accepted. The comprehensive final score will replace any tests missed. No late submissions on the forums or responses.

Course Success Factors

Attendance and Participation

It is expected that students will spend five hours on each module. Students will spend 15 hours per week on the course. Participation is in the forums and will account for 10% of the course grade.

Professionalism

(Netiquette, short for “network etiquette” or “Internet etiquette,” is a set of social conventions that facilitate interaction over the internet. Having a statement that establishes appropriate etiquette for interaction in your online class is vital to developing a positive learning environment.)

Online discussions and peer feedback on written work are invaluable. However, we must observe appropriate behavior online, just as we would in a classroom. Here are a few guidelines:

1. Do not use all CAPS in online communication. ALL CAPS usually indicate that the writer is shouting, and this could set up an uncomfortable situation.
2. Use correct spelling, capitalization and punctuation in ALL correspondence. Do not use “texting” language.
3. At all times, be respectful to each other. Choose your words carefully. When communicating online, words can be misunderstood, so make sure to proofread before posting and consider how someone might misinterpret them.
4. Express differences of opinion in a polite and rational way.
5. Maintain an environment of constructive criticism when commenting on the work of other students.
6. Avoid bringing up irrelevant topics when involved in group discussions or other collaborative activities.
7. If you ever receive an e-mail or response in discussions that is not appropriate, please contact your instructor immediately. I have a no tolerance policy to anything that appears to be harassing, impolite, insulting or which uses profanity. Situations like this may be referred to the Dean and corrective action will be taken.

Assignment Quality and Deadlines

There are no late submissions allowed for the lecture class. Laboratory assignments (if you take the lab class) may be turned in late and by the last Friday of the course.

Academic Honesty

Academic honesty is required of all students, and you are responsible for the content and integrity of all work you submit. Each student is responsible for understanding and following campus policies on academic honesty. Refer to the general policies, academic dishonesty section of the college catalog for more information. You will be guilty of cheating if you:

- Submit or claim the work of others as your own (plagiarism).
- Use or obtain unauthorized assistance in any academic work.
- Give unauthorized assistance to other students.
- Modify a submitted examination or assignment for the purpose of obtaining additional credit.
- Misrepresent the content of submitted work.

Student Support

Safe Zone

The instructor is a safe zone advocate. That means that the instructor will speak on behalf of LGBQ+ individuals. Even outside of the LGBQ+ community, if there is any crushing issue that you need community assistance, I am a

good place to start.

No Show Policy:

Students registered in Distance Education courses must communicate to the instructor by the end of the second day of the semester; otherwise, they may be dropped by the instructor to make room for other students waiting to enroll in the class. It is the student's responsibility to notify the instructor of anticipated or unavoidable absences.

Student Accommodations

UHCC Systemwide Policies, Academic and Administrative Affairs

- [UHCC System-Wide Policies](#)

Disabilities Accommodations Statement

OVERVIEW OF DISABILITY ACCESS SERVICES

During the intake process, students engage in an interactive process with their KOKUA Counselor. At this time, KOKUA will determine what appropriate academic adjustments are necessary to create equal access to education. Though the correct term is “academic adjustments,” we often refer to these as “access services.”

The following are examples of access services provided at KOKUA. This is not an exhaustive list.

- [Letters to Faculty \(Faculty Liaison\)](#)
- [Exam Accommodations](#)
- [Notetaking Services](#)
- Alternate Format
- Priority Registration
- [Sign Language Interpreting](#)
- Mobility, Lab and Library Assistance
- Adapted Furniture
- Classroom Relocation and Elevator Use
- [Service or Assistance Animals](#)

<https://www.hawaii.edu/kokua/>

Title IX Disclosure

Title IX is a landmark federal civil rights that prohibits sex discrimination in education. Members of the UH Mānoa community, guests and visitors have the

right to be free from all forms of sex/gender harassment, discrimination and misconduct, examples of which can include acts of sexual violence, sexual harassment, domestic violence, dating violence and stalking. All members of the campus community are expected to conduct themselves in a manner that does not infringe upon the rights of others.

The university believes in zero tolerance for sex/gender-based misconduct. Zero tolerance means that when an allegation of misconduct is brought to an appropriate administrator's attention, protective and other remedial measures will be used to reasonably ensure that such conduct ends, is not repeated and the effects on the victim and community are remedied.

The Office of Title IX has the specific responsibility for providing prompt and effective responses to all complaints of sex discrimination or harassment for faculty, staff and students.

The Title IX Coordinator reports directly to the Chancellor of the University. Any questions about this policy should be directed to the Title IX Coordinator. Anyone wishing to make a report relating to sex discrimination or harassment may do so by reporting the concern to the university's Title IX Coordinator.

The EEO/AA Office handles all employee versus employee complaints of discrimination. Please contact Mary Perreira, Deputy Title IX Coordinator for Employees vs Employees and Acting Director of Equal Employment Opportunity/Affirmative Action Office, at (808) 956-4650 or email at eeo@hawaii.edu. Please see www.hawaii.edu/offices/eeo/ for further information.

Privacy and Confidentiality

Out of respect for your privacy, I will maintain confidentiality about comments and discussions made by students in class and I expect all students to do the same. However, this online course may be analyzed for evaluation and assessment purposes. Should this occur, college faculty and staff will have access to course materials and student discussions.

Grades will be kept confidential, and I will do my best to respect students' requests that their course materials be kept confidential. However, if bullying or inappropriate material appears, I reserve the right to share these materials with the UHMC administration.

Right to Resolve Academic Grievances

Any student who believes that a faculty member has acted improperly or in a manner otherwise inconsistent with the faculty member's responsibilities or the student's customary academic expectations, may initiate action to achieve a remedy. Read more about the policy in the college catalog, or on the Kapi'olani Community College website under "Grievance Procedures" <http://maui.hawaii.edu/wp-content/uploads/2012/10/academic-grievance-policy.pdf>

Systemwide Student Conduct Code

To support a positive and safe learning environment, all students are required to adhere to the student conduct code found here: <https://www.hawaii.edu/policy/index.php?action=viewPolicy&policySection=ep&policyChapter=7&policyNumber=208&menuView=closed>

The student conduct code includes acts of academic dishonesty. Acts of dishonesty, include but are not limited to the following:

- (1) Cheating, plagiarism, or other forms of academic dishonesty.
- (2) Furnishing false information to any UH official, faculty member, or office.
- (3) Forgery, alteration, or misuse of any UH document, record, or form of identification.

Alleged violations of the student conduct code are taken seriously and may be reported to administration for investigation and disciplinary action.

Online Learning Success

In my experience teaching online, time management is the most common issue for student failures/withdraws. Please consider reading the following two articles.

[“What Makes a Successful Online Student?”](#)

[“Time Management Skills for Online Learners”](#).

Where to Get Help

If at any time you need support or assistance, seek help immediately. See below for a list links and/or phone numbers of support services available in person, by phone, or online to help you.

Academic Support Services – (If you need help with your coursework)

The following links provide University-wide resources for all UH Mānoa students. If you are a prospective student, please check out our [Admissions](#) pages.

Advising & Academic Support

Records

- [College of Arts & Humanities Advising](#)
- [College of Languages, Linguistics & Literature Advising](#)
- [College of Natural Sciences Advising](#)
- [College of Social Sciences Advising](#)
- [Academic Calendar](#)
- [Class Availability](#)
- [Distance Learning Courses](#)
- [Records & Registration](#)

- [Pre-Health & Pre-Law Advising Center](#)
- [Directory of Undergraduate Advisors](#)
- [Bridge to Hope](#)
- [College Opportunities Program](#)
- [First-Year Programs](#)
- [Learning Assistance Center](#)
- [Mānoa Advising Center](#)
- [Student Success Center](#)
- [Student Support Services](#)
- [Transfer Credit Search](#)
- [University Catalog](#)
- [Veterans Affairs](#)

International Education & Student Resources

- [Hawaii English Language Program \(HELP\)](#)
- [International Student Services](#)
- [International & Exchange Programs](#)
- [International Programs at Outreach College](#)
- [Mānoa International Exchange](#)
- [National Student Exchange](#)
- [Study Abroad Center](#)

Policies & Procedures

- [Academic Policies](#)
- [Accreditation](#)
- [Commencement](#)
- [Academic Grievance Procedures](#)
- [Vice Chancellor for Academic Affairs](#)
- [Leisure Center](#)
- [Service Learning](#)

Special Academic Programs

- [A Semester in Hawai'i](#)
- [Academy for Creative Media](#)
- [Air Force ROTC](#)
- [Army ROTC](#)
- [Distance Learning](#)
- [East-West Center](#)
- [Honors Program](#)
- [Interdisciplinary Studies program](#)

Technical Support Services

- [UH ITS Computer Help Desk](#) – email help@hawaii.edu or call 956-8883 (or toll free at 1-800- 558-2669 from the neighbor islands)
- [Laulima Assistance Form](#) – Click on the link at the bottom of any Laulima Page to fill out and submit a question and get your answer via email.