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Chemistry and Society

(Thu Dec 10, 2020 12:00 AM)

Course Syllabus

Chem 100: Chemistry and Society
Spring 2021

You are at the syllabus page for the course.

Welcome

(Thu Dec 10, 2020 12:00 AM)

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

(Thu Dec 10, 2020 12:00 AM)



Instructor: Michael Ferguson. Ph.D.

Office: UHMC Ike Lea 138

Office Hours: MT 4-6 PM

Virtual Office: <https://hawaii.zoom.us/j/98910339608>

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 15th ed.

Required Hardware and Software

- 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 21 chapters. Tests after chapters 7, 14 and 21.

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%
Homework	50%
Forums	5%
Total	100%

Assessment Descriptions

Homework and tests are on Masteringchemistry. Tests follow chapters 7, 14, and 21. Write in the introduce yourself forum on the first week of class. Due dates for the tests and the corresponding homework are as follows: Test 1, February 24; Test 2, April 1; Test 3, May 5.

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.

Student Accommodations

UHCC Systemwide Policies, Academic and Administrative Affairs

- [UHCC System-Wide Policies](#)

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

Title IX Disclosure

The University of Hawaii is committed to providing a learning, working and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking. If you or someone you know is experiencing any of these, the University has staff and resources on your campus to support and assist you. Staff can also direct you to resources that are in the community.

As a member of the University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator. Although the Title IX Coordinator and I cannot guarantee confidentiality, you will still have options about how your case will be

handled. My goal is to make sure you are aware of the range of options available to you and have access to the resources and support you need.

For more information regarding sex discrimination and gender-based violence, the University's Title IX resources and the University's Policy, Interim EP 1.204, go to: <http://www.hawaii.edu/titleix>

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.

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.

Tutor.com- provides free online, on demand tutoring for Math, Science, Social Sciences, Business, English, Nursing, and ISS courses and writing assistance for any course. Stuck on a problem? Want someone to review your paper? Go to MyUH.hawaii.edu to access site. For more information go to: <http://maui.hawaii.edu/tlc/home/tutoring/tutor-com/>

Non-Discrimination Statement: The University of Hawai'i System Executive Policy EP 1.204, declares and reaffirms its commitment to the University's equal education and employment opportunity policy. The University is committed to a policy of nondiscrimination on the basis of race, sex, age, religion, color, national origin, ancestry, handicap, marital status, arrest and court record, sexual orientation, gender identity, and veteran status. This policy covers admission and access to, and participation, treatment, and employment in the University's programs and activities. If you feel that you are being discriminated against, contact the website (<http://maui.hawaii.edu/nondiscrimination-policy/>) or the UH Equal Employment Opportunity and Affirmative Action Office at 956-7077.

TITLE IX: The University of Hawaii is committed to providing a learning, working and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking. If you or someone you know is experiencing any of these, the University has staff and resources on your campus to support and assist you. Staff can also direct you to resources that are in the community.

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UH Email: Please check your hawaii.edu email daily. Instructors, administration and other campus programs will send important information frequently including notifications for class cancellations and important deadlines.

Safezone: This class welcomes everyone regardless of age, gender identity, sexual preference, ethnicity, or background. You are expected to strive for courtesy and respect in all course related interactions. Please let me and your classmates know the name you prefer to be called or if there is a pronouns you prefer. Do keep in mind that you can change your screen name in Lulima—that will make it easier to remember if your preferred name is not the same as what shows by default.

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)
- Lulima Assistance Form – Click on the link at the bottom of any Lulima Page to fill out and submit a question and get your answer via email.