

Course Syllabus

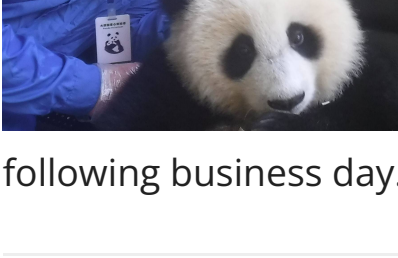
Chem 100: Chemistry and Society
Fall 2022

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 Hours: MW 9-11:30 AM (in person by appointment only)

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

Email: mferguso@hawaii.edu or use Laulima 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

Introduction to chemistry for non-science majors. Discussion of basic chemistry concepts and their application to everyday life. Provides a survey of basic concepts and applications of chemistry with emphasis on the role of chemistry in the real world. This is suitable for students who have little or no background in chemistry and serves to fulfill a general education physical science core course for the non-science major or as a preparatory course for CHEM 151 or BIOC 141.

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. Describe the relationship between properties and structure of matter.
2. Name chemicals, balance chemical and nuclear equations.
3. Solve problems involving mole and mass ratios in chemical reactions.
4. Identify the types of chemical reactions (i.e. acid-base, redox, nuclear) and their applications to everyday lives.
5. Explain the chemistry of household chemicals, and the composition of air and water.

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

Classwork and tests are on Masteringchemistry. Tests follow chapters 7, 14, and 21. Write in the introduce yourself forum on the first week of class. Homework due dates and the corresponding homework are as follows: Test 1, October 5; Test 2, November 2; Test 3, December 8.

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. No late submissions on the forums or responses.

Student Service Statement

COVID-19 Campus Information

To ensure the health and safety of our campus community, employees and students must adhere to [UHMC COVID-19 Health and Safety Protocols](#) while on campus that include wearing face masks, practicing social distancing and regular hand washing hygiene, as well as participating in UHMC self-screening surveys upon entering buildings and classrooms. If you experience any [symptoms of coronavirus](#), stay home and consult with your physician or the [UHMC Health Center](#) (984-3493). For information on COVID-19 related accommodations, contact Disability Service Counselor, Karen O'Neill, M.S., 808-984-3227 or koneill@hawaii.edu.

Assessment

A sample of your work may be anonymously used to assess student achievement of the program learning outcomes for the General Education standards.

Campus Security: 808-984-3255

Disabilities Accommodations

Reasonable accommodations will be provided for students with documented physical, sensory, systemic, cognitive, learning and psychiatric disabilities. If you believe you have a disability requiring accommodations, please make an appointment with the Disability Services Counselor: Karen O'Neill, M.S., 808-984-3227 or koneill@hawaii.edu. Videophone relay service is at 1(200) 203-9685, TTY Relay Service at 711 or 1(877) 447-5990, or the Text Telephone (TT) Relay Service at 643-8833. A student's disability status is considered confidential and is only disclosed to faculty and relevant campus personnel with the student's permission. Additional information is available on the [Disability Services webpage](#).

Student Code of Conduct

UHMC supports a positive educational environment that will benefit student success. In order to ensure this vision, UHMC has established the [UHMC Student Code of Conduct](#) to ensure the protection of student rights and the health and safety of the community, as well as to support the efficient operation of all programs. All currently enrolled students at UHMC are required to abide by this code.

Title IX

The University of Hawai'i 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, sexual exploitation, 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.

<p>COVID-19 Campus Information</p> <p>To ensure the health and safety of our campus community, employees and students must adhere to UHMC COVID-19 Health and Safety Protocols while on campus that include wearing face masks, practicing social distancing and regular hand washing hygiene, as well as participating in UHMC self-screening surveys upon entering buildings and classrooms. If you experience any symptoms of coronavirus, stay home and consult with your physician or the UHMC Health Center (984-3493). For information on COVID-19 related accommodations, contact Disability Service Counselor, Karen O'Neill, M.S., 808-984-3227 or koneill@hawaii.edu. Please click here for the Response to Covid-19 Interim Addendum to the Student Conduct Code.</p> <p>Assessment</p> <p>A sample of your work may be anonymously used to assess student achievement of the program learning outcomes for the General Education standards.</p> <p>Campus Security: 808-984-3255</p> <p>Disabilities Accommodations</p> <p>Reasonable accommodations will be provided for students with documented physical, sensory, systemic, cognitive, learning and psychiatric disabilities. If you believe you have a disability requiring accommodations, please make an appointment with the Disability Services Counselor: Aris Banaag 808-984-3278 or UHMC Disability Services at uhmcds@hawaii.edu. Videophone relay service is at 1(200) 203-9685, TTY Relay Service at 711 or 1(877) 447-5990, or the Text Telephone (TT) Relay Service at 643-8833. A student's disability status is considered confidential and is only disclosed to faculty and relevant campus personnel with the student's permission. 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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.</p> <p>If you wish to remain ANONYMOUS, speak with someone CONFIDENTIALLY, or would like to receive information and support in a CONFIDENTIAL setting:</p> <p>- Aris Banaag, UH Maui College Personal Support, Annex Bldg, 808-984-3278, arisb@hawaii.edu</p> <p>- Nicole "Cole" Sasaoka, UH Maui College Confidential Resource, Child & Family Services, 392 N. Market St., Wailuku, HI 96793, 808-877-6888 or 808-357-8260, nsasaoka@cfs-hawaii.org</p> <p>UHMC Health Center Provider Team: Jennifer "Qua" Baumstark, DNP, CNM, APRN; Kathleen Hagan, MSN, APRN-BC; Konstantina Rose, MSN, APRN-BC; and Constance Williams, MSN, RN, UH Maui College Health Center Office: Health Center, Annex Building Phone: 808-984-3493 Email: healthct@hawaii.edu</p> <p>- Laura Nagle, Deputy Title IX Coordinator for Students, Piliina 137, 808-984-3475, lleas@hawaii.edu</p> <p>- Shawna Pabingwit, Deputy Title IX Coordinator for Students, Ho'okipa 210, 808-984-3204, shawna.pabingwit@hawaii.edu</p> <p>- Susan Tokunaga, Deputy Title IX Coordinator for Employees, Ho'okipa 210, 808-984-3380, suetoku@hawaii.edu</p> <p>- Jenna Friedman, Office of Gender Equity, UH Manoa, Ctr. For Student Services, 210, 2600 Campus Rd, Honolulu, HI 96822, 808-956-9499, jenna.h.friedman@hawaii.edu</p> <p>Additional Title IX information: Title IX prohibits discrimination on the basis of sex in educational programs and activities that receive federal funding. Specifically, Title IX prohibits sex discrimination; sexual harassment, and gender-based harassment, including harassment based on actual or perceived sex, gender, sexual orientation, gender identity, or gender expression; sexual assault, sexual exploitation; domestic violence; dating violence; and stalking. For more information regarding your rights, visit the University's Title IX website.</p> <p>As a member of the University faculty, I am expected 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.</p> <p>Non-Discrimination Statement</p> <p>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, gender, sexual orientation, age, religion, color, national origin, ancestry, handicap, domestic violence, marital status, arrest and court record, 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, review the discrimination policy or call Shawna Pabingwit, UH Maui College Title IX Interim Coordinator Office: Piliina 134 Phone: 808-984-3601 Email: martinsh@hawaii.edu</p> <p>Safezone</p> <p>This class welcomes everyone regardless of age, gender identity, sexual orientation, ethnicity, or background. Everyone is expected to strive to maintain a safe and inclusive campus environment that is free from harassment and discrimination. Please let me and your classmates know the name you prefer to be called or if there is a pronoun you prefer. Do keep in mind that you can change your screen name in Laulima—that will make it easier to remember if your preferred name is not the same as what shows by default. For LGBTQ+ concerns, the UHMC Safezone coordinator is: Kealii Z. Ballao MEd, Office: 808.984.3483 Email: ballao@hawaii.edu</p>	<p>Shawna Pabingwit, UH Maui College Title IX Interim Coordinator Office: Piliina 134 Phone: 808-984-3601 Email: martinsh@hawaii.edu</p> <p>Shawna Pabingwit, UH Maui College Title IX Interim Coordinator Office: Piliina 134 Phone: 808-984-3601 Email: martinsh@hawaii.edu</p> <p>Safezone</p> <p>This class welcomes everyone regardless of age, gender identity, sexual orientation, ethnicity, or background. Everyone is expected to strive to maintain a safe and inclusive campus environment that is free from harassment and discrimination. Please let me and your classmates know the name you prefer to be called or if there is a pronoun you prefer. Do keep in mind that you can change your screen name in Laulima—that will make it easier to remember if your preferred name is not the same as what shows by default. For LGBTQ+ concerns, the UHMC Safezone coordinator is: Kealii Z. Ballao MEd, Office: 808.984.3483 Email: ballao@hawaii.edu</p>
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Academic Support Services

UH Maui College is committed to a supportive, inclusive, and academically challenging learning environment. To help you succeed, your college offers full suites of services to help you transition to online learning, manage your studies, and plan for your future.

Academic Support Starting Points

- **Student Support Updates:** This is a frequently updated list of student support essentials, including updates on health and wellbeing services, computer and technology services for online learning, and academic support centers and labs.
- **Kokua Marketplace:** This is your one-stop for learning services and student support services. *This is a work in progress, keep checking this link for updates.*
- **STAR Balance:** Schedule virtual appointments with your advisors, tutors, and librarians. Request an item to be picked-up from the library and more.

Technology for Online Learning

- **Top Nine for Online!**
- **The UHMC Help Desk** is your go-to place for classroom technology and computer software and hardware troubleshooting needs. [The UHMC Online - Remote Learning webpage](#) is a great resource for classroom technology and communication strategies.
- **Book a student Tech Tutor** for live, one-on-one training and personalized help with classroom technology.

- Need a laptop, Wi-Fi hotspot, computer video camera or other peripheral? Explore the [Library's Equipment Catalog](#) to request what you need. Check out the UHMC Help Desk [Wireless webpage](#) for campus Wi-Fi areas and wireless passthrough details.

Learning Services & Resources

- **Find a peer tutor** for your courses: Tutors are students who successfully passed the course they tutor. They use their experience and training to help clarify content; review course material with you; and make suggestions for studying, keeping organized, and navigating Laulima. Tutoring is online via zoom and by appointment.
- **Get It To Stick & Make Your Point** Workshops - [sign up for a workshop\(s\)](#) via zoom and learn strategies to make your college coursework more manageable.
- **Get academic coaching:** Peer and staff coaches assist you with online learning, managing distractions, overcoming procrastination, managing stress, trying new ways of studying, and connecting you to other campus resources to support you during the semester. Coaching is online via zoom or phone and by appointment.
- **Maui Online Learning:** A facilitated introduction to online learning.
- Utilize strategy videos created by UHMC students for UHMC students on topics like [communicating with your instructor](#), [getting stuff done](#), [staying motivated](#) and [more](#).
- **Chat live with a librarian** or **book an appointment:** Librarians provide research, assistance, professional support for academic success and integrity, and a wide variety of referral services including connecting you to campus and community resources. Even when the librarians are off-duty, you have access to online help via the library's [FAQ](#) and [Research Help](#) pages.

Places To Study On Campus

Due to infection control protocols, the availability of study spaces and computer labs on campus may change. Contact the offices below for updates. Those looking to study outdoors may want to refer to the [campus Wi-Fi map](#).

- **Library** — [book online](#) or call (808) 984-3715, text (808) 518-4080, email uhmclib@hawaii.edu
- **The Learning Center (TLC)** — [book online](#) or call (808) 984-3240 or email uhmctlc@hawaii.edu

Testing

Due to infection control protocols, in person and remote test proctoring availability is limited and appointments are required. To make an appointment, call (808)984-3240 or email uhmctlc@hawaii.edu. Students testing in person are required to wear a facemask at all times they are inside The Learning Center (TLC).