

Course Syllabus

Chem 100: Chemistry and Society
Spring 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

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

Email: mferguso@hawaii.edu or use Lailima 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 lailima.

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.

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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, 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

DISABILITIES ACCOMMODATIONS

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Accessibility Counselor to discuss reasonable accommodations that will help you succeed in this class. Roy Inouye can be reached at (808) 235-7448, royinouye@hawaii.edu, or you may stop by Hale Kākoʻo 106 for more information.

SEX DISCRIMINATION AND GENDER-BASED VIOLENCE RESOURCES (TITLE IX)

Windward Community College 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, WCC has staff and resources to support and assist you. To report an incident of sex discrimination or gender-based violence, as well as receive information and support, please contact one of the following:

Jojo Miller, Confidential Advocate

Phone: (808) 348-0663

Email: advocate@hawaii.edu

Office: Hale Kākoʻo 110

Desrae Kahale, Mental Health Counselor & Confidential Resource

Phone: (808) 235-7393

Email: dkahale3@hawaii.edu

Office: Hale Kākoʻo 101

Karla K. Silva-Park, Title IX Coordinator

Phone: (808) 235-7468

Email: karlas@hawaii.edu

Office: Hale ʻĀkoakoa 220

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 manoa.hawaii.edu/titleix/

ACADEMIC INTEGRITY

Work submitted by a student must be the student's own work. The work of others should be explicitly marked, such as through use of quotes or summarizing with reference to the original author.

In this class, students who commit academic dishonesty, cheating or plagiarism will have the following consequence(s):

Students will receive a failing grade for plagiarized assignments.

All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

ALTERNATE CONTACT INFORMATION

If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

- Location: Alaka'i 121
- Phone: (808) 235-7422

Academic Support Services

Please see the following link to access additional services:

<https://windward.hawaii.edu/services-for-students/>

Ka Piko Services

[Ka Piko Services](#) provides FREE academic and technical support to all WCC students. Our services are available both in-person and virtually (via Zoom). Our goals are to help students succeed academically and to become independent lifelong learners. We are staffed by friendly and knowledgeable peers who are ready to assist you!

- Ka Piko Math Lab provides assistance for all math courses offered at WCC, helping to improve students' understanding of important concepts and problem solving processes.
- Ka Piko Writing Lab provides assistance with any and all aspects of the writing process, including: brainstorming, research, MLA formatting and citations, drafting, and revising.
- Ka Piko Student Tech. Support can assist students with Google@UH, Lailima, MyUH, UH accounts, and can provide best-effort support for problems or questions with personal computers and other smart devices.
- Ka Piko also provides free weekly Success Connection Workshops for students

Visit the Ka Piko webpage at go.hawaii.edu/A42 for more information about our services, to learn how to connect with our tutors and tech assistants, or to RSVP for a Success Connection Workshop. Contact the Ka Piko Coordinator, Scott Sutherland, at scottjks@hawaii.edu if you have any questions.