Chemistry and Society

Course Syllabus

Chem 100: Chemistry and Society
Fall 2018, CRN 64064

You are at the syllabus page for the course.

Syllabus Instructions
(Mon Aug 20, 2018 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.

button at the top will open ALL sections. 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 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

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 eScicnelabs 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):

<table>
<thead>
<tr>
<th>Assessment</th>
<th>% of Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>15%</td>
</tr>
<tr>
<td>Test 2</td>
<td>15%</td>
</tr>
<tr>
<td>Test 3</td>
<td>15%</td>
</tr>
<tr>
<td>Final</td>
<td>45%</td>
</tr>
<tr>
<td>Forums</td>
<td>10%</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>100-90%</td>
</tr>
<tr>
<td>B</td>
<td>89-80%</td>
</tr>
<tr>
<td>C</td>
<td>79-70%</td>
</tr>
<tr>
<td>D</td>
<td>69-60%</td>
</tr>
<tr>
<td>F</td>
<td>Below 60</td>
</tr>
</tbody>
</table>

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
Disabilities Accommodations Statement

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 Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Akoakoa 213 for more information.

Title IX Disclosure

Title IX is a federal law that prohibits discrimination on the basis of sex in education programs and activities that receive federal financial assistance. 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.

Windward Community College recognizes the inherent dignity of all individuals and hereby declares and reaffirms its commitment to the University’s pursuit of equal education and employment opportunity. If you or someone you know has experienced sex discrimination or gender-based violence, Windward Community College has staff and resources on our campus to support and assist you.

Confidential Resources

To speak with someone confidentially, or to receive information and support in a confidential setting, please see the resources listed below:

- Karla Silva-Park
  Mental Health Counselor, Designated Confidential Resource
  karlas@hawaii.edu
  808-235-7468

- Kaahu Alo
  Student Life Counselor, Designated Confidential Advocate for Students
  kaahualo@hawaii.edu
  808-235-7354

- Domestic Violence Action Center-Chelsey Stewart
On-Campus Advocate
chelseys@stoptheviolence.org
808-294-5483
For cases specific to domestic violence, dating violence, or stalking http://www.domesticviolenceactioncenter.org/

Office of Gender Equity-Jenna Friedman, J.D.
Gender Equity Specialist
University of Hawai‘i at Manoa
jenna.friedman@hawaii.edu
(808) 956-9499

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Making a Formal Report

Windward Community College is committed to responding promptly and effectively to reports of discrimination based on sex. For questions or concerns regarding sex discrimination or gender-based violence, or to make a formal report, please contact one of Windward Community College’s Title IX Coordinators:

- Title IX Coordinator
  - wcctix@hawaii.edu
  - 808-235-7393
  - Hale Akoakoa 220

- Karen Cho
  - Deputy Title IX Coordinator for Employees
  - kcho@hawaii.edu
  - 808-235-7404
  - Hale Alakai 120B

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Your Rights

The University strives to provide members of the campus community with fair and equitable resolution processes that include both formal and informal options.
• Reporting:
  - Reporting parties have the right to notify law enforcement of incidents and to receive assistance from campus personnel in doing so.
  - Reporting parties may decline to report to law enforcement if they so wish.
  - Reporting parties have the right to have their allegations investigated and resolved internally by the institution.

• Fairness:
  - All members of the campus community have the right to have reported incidents addressed according to the published University procedures.
  - All parties have equal opportunities to have a support person of their choosing or offered by the institution present throughout all resolution proceedings (including intake, interviews, hearings, etc.). This person can be an advisor, advocate, attorney, family member, friend, faculty member, etc.
  - All parties have the right to written notice of the outcome of sexual misconduct resolution proceedings.
  - Reporting parties, their supporters, and witnesses have a right to be free from retaliation.

• Support:
  - Students have a right to be notified of their ability to access mental health counseling, health, and advocacy services.
  - Students and employees have a right to be notified of on- and off-campus support services.
  - All parties involved in sexual misconduct allegations will receive the information and assistance needed to effectively participate in all proceedings.
  - Reporting parties have the right to seek orders of protection, no-contact orders, restraining orders, or similar lawful orders issues by criminal, or civil courts, and may seek the help of Campus Security in requesting and/or enforcing.

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**Federal Resources**

Individuals experiencing harassment or discrimination also always have the right to file a formal grievance with government authorities:

   Office for Civil Rights (OCR)
   Seattle Office
   Office for Civil Rights
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 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?
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)

**Library**

- [Library Home Page](#)

**Support Services**

- [Brainfuse - online tutoring free to our students](#)

Free online tutoring, accessed through MyUH
• Computing - computer labs, wireless network, help with your UH password

• The Testing Center

• Math Lab - tutoring for math classes

• Speech Lab - help with classroom presentations

• Writing Center - help with your writing projects

• TRiO Student Support Services

Applying to Windward CC

• Applying to WCC

• Automatic Admission - for students completing their AA Degree planning to enter UH Mānoa

• Running Start and Early Admissions

• New Student Orientation
  • Registration Guide (PDF)

Resources

• Mental Health Services

• Special Request Form (PDF)

• UH Student Conduct Code

• Student Grievance Procedure

• GPA Calculator - enter your grades and projected grades to estimate your GPA

• Tuition

Services

• Counseling and Advising

• Disabilities Services

• Financial Aid

• First Year Experience

• Ka’ie’ie - transfer to UH Mānoa

• Ka Piko Student Success Center

• Peer Mentors

• Placement Testing - available via the Testing Center

• Student and Staff IDs

• Transcript Request

• TRiO

• Writing Center

• Career and Transfer Center
  • Career Explorations - career and workforce help
Career Connections - from the UH Community College
Specialized Career Information
Transferring from Windward CC

Related Links

- Bookstore
- Commencement
- Documents - reports, program reviews, etc.
- Student Employment (SECE)
- Student Health Insurance Information - via University Health Services at UH Manoa
- The Testing Center

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.