# **CHEM 161 – General Chemistry I (Syllabus)**

Spring term, 1/11 – 5/14, 2021 M, W, F 11:30 AM to 12:20 PM, CRN 85252, section 001.

Prerequisite: Placement Exam

Instructor: **Dr. Jeff Romine** Office: 321A Bilger Hall Email: <a href="mailto:rominej@hawaii.edu">rominej@hawaii.edu</a>

Course description: <a href="https://manoa.hawaii.edu/chem/academics/courses/">https://manoa.hawaii.edu/chem/academics/courses/</a>

**eBook: "Interactive General Chemistry"** by Jessica White et. al., Macmillan (required). (You may purchase a hard-copy through the UH bookstore website if you wish.)

Online homework: Macmillan's "Achieve"

Achieve for Interactive General Chemistry (1-Term Access) ISBN 9781319417000 Achieve for Interactive General Chemistry (2-Term Access) ISBN 9781319421373

As above: Loose-leaf Version (1-Term Access) ISBN 9781319417062 As above: Loose-leaf Version (2-Term Access) ISBN 9781319417048

Please follow this link to: "Macmillan Online Homework Registration Instructions" in order to register and access digital materials:

https://macmillan.force.com/macmillanlearning/s/article/Achieve-Join-a-course

### **Exam Schedule:**

Feb 5 (Fri) Chapters 1 – 3; Midterm 1 (150 pts) March 5 (Fri) Chapters 4 – 6; Midterm 2 (150 pts) April 14 (Wed) Chapters 7 – 9; Midterm 3 (150 pts) May 14 (Thurs) Chapters 10 – 11; Final exam (200 pts)

### **Lecture Format:**

Course instruction is online synchronous. Students will join a scheduled Zoom presentation that may either be live or pre-recorded.

### **Exam Format:**

It is presently anticipated that exams will be administered via online using Macmillan's Achieve platform. Students will be sent an exam protocol and a Zoom link prior to the exam dates. All midterm exams will begin at 11:30 AM and end at 12:30 PM. It is possible that the department may shift to in-person exams for students living on campus; requiring off campus student to take exams via an online proctoring service (ProctorU; https://www.proctoru.com/).

# Zoom

Exams will be proctored in Zoom by teaching assistants and the course instructor. All students must have a functioning webcam. A few minutes before the start of each exam students must log into a Zoom session and share their screen; the sessions may or may not be recorded. You cannot use a Chromebook for the exams.

### Webcam

All students must have a working webcam set up on their laptop or desktop computer. Exams cannot be taken with phones or tablets.

### Homework

Online homework will be assigned weekly and due dates will be posted. There is a 20% penalty per day for late submissions for the window that the homework is available. The total points earned from eleven homework assignments of 25 questions each will be divided by the total points possible, and the resulting percentage will be multiplied by 110 points, contributing 18% to your grade.

**Exams** There will be three midterm exams of 150 points each (49%) and a 200 point cumulative final exam (33%). Your lowest midterm exam will be dropped, which allows for students who have unforeseen events such as sickness, unanticipated travel, etc. No make-up exams without the prior consent of the course instructor, which will only be given for extreme situations.

**Final grades** will be determined after dropping the lowest midterm, averaging, and determining %. Total possible: 450 (three exams) -150 (dropped exam) = 300 (midterms) + 200 (final exam) + 110 (homework) = 610 points

# **GRADING\***

Overall %	Grade Earned
96% or Above	A+
92-95%	A
88-91%	A-
84-87%	B+
80-83%	В
76-79%	B-
72-75%	C+
68-71%	С
64-67%	C-
60-63%	D+
56-59%	D
52-55%	D-

51% or Below F
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\*Grades *may* be curved upon the discretion of the Instructor.

**Academic Misconduct**: Students are expected to meet academic standards, conducting themselves maturely and respecting the academic community at UH. The primary objective for students enrolled in university courses is NOT to obtain high grades, but to master the material. Your grades reflect how well you have met this objective and provide you with a means of self-assessment. Do you need more study? Do you need tutorial help? Should you change your major? Your grades assist you in making these types of decisions. Academic dishonesty, as in cheating, renders your grades a meaningless tool for this important assessment process. An online version of the Academic Honesty Policy can be found at:

http://www.studentaffairs.manoa.hawaii.edu/policies/conduct\_code/

**Professionalism:** It is important to know boundaries. It is okay to inquire about a particular score or grading mark for the sake of clarification. Occasionally, mistakes do happen and they can be corrected. It is altogether another thing to plead for points, and to do this often would certainly reflect poorly upon you. It is great when students try hard and want to be rewarded for their effort, but expend your effort by learning the material well.

**Learning tips**: The lecture and textbook material constitute the course. In order to facilitate thoughtful contemplation of the material, students should plan on carefully reading the chapters and solving all the questions. By carefully listening to lectures students glean a first exposure to the material, but it is reading and doing the assignments that facilitates learning, which is more than understanding. A final reviewing of the material before exams should be sufficient to secure a passing grade.

**Disabilities**: Students with conditions requiring test accommodations are to contact the KOKUA Program (the Office for Students with Disabilities). KOKUA can be reached at (808) 956-7511 or (808) 956-7612 (voice/text) in Room 013 of the Queen Lili'uokalani Center for Student Services.

# **Lecture Schedule\***

Week	Tuesday Thursday	
Week 1 Jan 11 <sup>th</sup> - 15 <sup>th</sup>	Chapter 1: Science	e and Measurement
Week 2 Jan 18 <sup>th</sup> – 22n <sup>d</sup>	Chapter 2: Atoms & The Periodic Table	
Week 3 Jan 25 <sup>th</sup> - 29 <sup>th</sup>	Chapter 3: Compounds & The Mole	

Week 4 Feb 1 <sup>st</sup> - 5 <sup>th</sup>	Review and Midterm 1 Exam	
Week 5 Feb 8 <sup>th</sup> – 12 <sup>th</sup>	Chapter 4: Chemical Reactions & Aqueous Solutions	
Week 6 Feb 15 <sup>th</sup> - 19 <sup>th</sup>	Chapter 5: Stoichiometry	
Week 7 Feb 22 <sup>nd</sup> - 26 <sup>th</sup>	Chapter 6: Thermochemistry	
Week 8 March 1st - 5th	Review and Midterm 2 Exam	
Week 9 March 8 <sup>th -</sup> 12 <sup>th</sup>	Chapter 7: Gases	
Week 10 March 14 <sup>th</sup> - 19 <sup>th</sup>	No class (spring break)	
Week 11 - 12 March 22 <sup>nd</sup> -April 2 <sup>nd</sup>	Chapter 8: The Quantum Model of the Atom	
Week 13 April 5 <sup>th</sup> - 9 <sup>th</sup>	Chapter 9: Periodicity & Ionic Bonding	
Week 14 April 12 <sup>th</sup> - 16 <sup>th</sup>	Review and Midterm 3 Exam	
Week 15 April 19 <sup>th</sup> - 23 <sup>rd</sup>	Chapter 10: Covalent Bonding	
Week 16 - 17 April 26 <sup>th</sup> – April 30 <sup>th</sup>	Chapter 11: Molecular Shape & Bonding Theories	
Week 16 - 17 May 3 <sup>rd</sup> – May 7 <sup>th</sup>	Course Review	
Week 17 May 14 <sup>th</sup>	Final Exam	

<sup>\*</sup>Changes may be made at the discretion of the instructor.

# Chemistry 161 - General Chemistry I

Spring 2021

**Professor:** Dr. Amy Fuller **Email:** amy.fuller@hawaii.edu **Lecture:** TR 9:00 – 10:15 – On Zoom

**Office Hours:** After lecture, I will stay online to answer questions. Also email if you need help! You can also visit graduate student tutors at the *Online Learning Emporium* Hours: M-F 9:00 – 9:00 PM, see emporium schedule on Laulima for details.

# I. General Information

Course Goals: Your goal is to pass the class, my goal is to expand your problem solving ability, increase your knowledge of chemistry, and enhance your ability to see chemistry at work in the world around you.

Academic Integrity: Don't cheat. Cheating in any form on an assignment or exam will, at a minimum, result in a zero grade on that assignment/exam and the filing of an Academic Dishonesty Report Form describing the incident with the Vice President of Student Affairs. I will adhere to the university policy on academic honesty found online at: http://www.studentaffairs.manoa.hawaii.edu/policies/conduct\_code/

What is cheating? For homework assignments, I encourage you to help each other and use your resources: the book, tutors, google, and more! You can share photocopies of your work, but do not copy and share screenshots of webpages or Achieve answer pages. Sharing screenshots is cheating.

For exams, you will receive directions on what you materials you can and cannot use. You are expected to do your own work to learn the material. You cannot use other people for exams.

Participation: Attendance in zoom meetings is not required. Lecture videos will be uploaded to Laulima under Resources after each lecture. If we can't meet during lecture time, a detailed resources will be posted during class lecture time. The meetings and resources will be helpful to you learning the material. Watch posted videos and take notes while watching! Finishing homework assignments on time and doing practice problems out of the book is the best way to study! Set aside consistent time each week to do homework. Force yourself to deep think!

Students with Disabilities: Students with conditions that may require test accommodations are encouraged to contact me privately and contact the KOKUA Program (the Office for Students with Disabilities). KOKUA can be reached at (808) 956-7511 or (808) 956-7612 (voice/text) in Room 013 of the Queen Lili'uokalani Center for Student Services.

<sup>\*</sup>Other university information is in section IV below.

#### **II. Lecture Materials**

Online Textbook/Online Homework (required):

Interactive Gen.Chem.Achieve Access card (1 sem) is required. Achieve will allow you access to the ebook "Interactive General Chemistry" and the on-line homework. There is a free 14 day trial, but you will need an access code purchased online. Refer to Laulima class announcement for registration details.

Hard Copy Textbook (optional): You can purchase a hard copy textbook from the UH-Manoa Bookstore or buy online at the Macmillan learning store. This can be useful if you get distracted online, but isn't required.

*Calculator:* A hand-held scientific calculator capable of scientific notation for use on homework problems, quizzes, and exams.

# III. Tentative Grading & Evaluation for Lecture

#### TENTATIVE GRADING BREAKDOWN

Grading	#	pts each	total
Exams	3	100	300
Final Exam	1	150	150
Homework*	12	10	120
<b>Total Points</b>			570

<sup>\*</sup>other assignments may be assigned

Exams: Three multiple choice/fill in the blank exams will be given. Exams will be on Laulima and only given on the assigned day and time on the course calendar. Only excused medical absences will allow students to take an exam at a later date. Contact me ASAP if you miss an exam, otherwise, no credit will be given. Any medical emergency must be documented by a hand-written doctor's note by a local doctor with a physical address and phone number on the heading of the note. Accommodations for conflicting work schedules, vacation plans, or any other non-emergency situations will not be made. Make-up exams or early exams are at the discretion of the professor, regardless of the excuse.

Final Exam: The final is a multiple choice/fill in the blank cumulative exam on Laulima given only on **Tuesday, May 11th from 9:45 – 11:45 AM**. Make-up exams will *NOT* be given.

Homework: Homework will be assigned each week and generally due on Saturday at 5 PM. The homework will be online in Achieve, you are responsible for checking deadlines and completing your homework on time. Late homework questions will have 10% deducted from your grade on that problem per day. After three days, the assignment will be scored as is.

You are encouraged to do extra "Learning Curve Assignments" and problems out of the book from practice. Odd number answers will be available on Achieve. Do more problems than assigned if a certain topic is confusing. Practice makes you better!

# **IV.** Grading

*Grade Scale:* Letter grades will be determined based on your percentage and are up to the discretion of the professor. Grades will be rounded to the nearest 0.1%. For example an 89.49% rounds to 89.5%, which is a B+.

# Approximate Grading Scale

Overall %	<b>Grade Earned</b>
98.0% and above	A+
93.0-97.9%	Α
90.0-92.9%	A-
88.0-89.9%	B+
83.0-87.9%	В
80.0-82.9%	B-
78.0-79.9%	C+
73.0-77.9%	С
70.0-72.9%	C-
68.0-69.9%	D+
63.0-67.9%	D
60.0-62.9%	D-
59.9% or below	F

### IV. UHM Title IX Syllabus Information

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, gender-based harassment, domestic violence, dating violence, and stalking. If you or someone you know experiences any of these, UHM has staff and resources on campus to support and assist you. Staff also can direct you to resources in the community. Here are some of your options:

If you wish to remain **ANONYMOUS**, speak with someone **CONFIDENTIALLY**, or would like to receive information and support in a **CONFIDENTIAL** setting, contact:

### Office of Gender Equity

The Office of Gender Equity offers direct services to victims and survivors of sexual harassment and sexual assault. Services offered include crisis screening and assessment, case referral, safety planning and risk assessment.

# Paxon Chang (available Tuesdays, Wednesdays, and Fridays)

Telephone: (808) 956-9499 Email: geneq@hawaii.edu

Queen Lili'uokalani Center for Student Services 210

2600 Campus Road Honolulu, HI 96822

Website: <a href="https://blog.hawaii.edu/genderequity/">https://blog.hawaii.edu/genderequity/</a>

# **UH Confidential Advocacy**

The UH Confidential Advocates provide confidential advocacy services and case management to victims\* of sex discrimination and gender-based violence (including sexual harassment, gender-based harassment, dating and domestic violence, stalking, sexual exploitation, and sexual assault) who are involved in the University system on O'ahu.

### **Natalia Villegas**

Telephone: (808) 341-4952 Email: nataliat@hawaii.edu

Pop in/Walk in Services:

Join Zoom Meeting: https://hawaii.zoom.us/my/hccmanoaadvocate

Mondays: 1PM - 3:30 PM Tuesdays: 9:30 AM - 12 PM Wednesdays 9:00AM - 11:00AM Thursdays 4:30PM - 6:30PM

# Student Parents At Mānoa (SPAM)

Student Parents At Mānoa (SPAM) seeks to increase the visibility of and resources for student parents at UH Mānoa as they pursue education while parenting. SPAM staff provide advocacy, support, and referrals for pregnant and parenting students to help them succeed in their educational goals.

#### Teresa Bill

2600 Campus Road Queen Lili'uokalani Center for Student Services 211 Honolulu, HI 96822 (808) 956-8059 gotkids@hawaii.edu http://manoa.hawaii.edu/studentparents/

# **Counseling and Student Development Center (CSDC)**

The Counseling and Student Development Center (CSDC) offers support to UHM students, staff, and faculty to assist with personal, academic, and career concerns. All services are confidential and most are free of charge for Mānoa students. They also offer free consultation to faculty and staff on personal and student-related issues as well. CSDC office hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday. They also offer immediate walk in appointments for urgent or emergency/crisis services during their regular daily hours.

Queen Lili'uokalani Center for Student Services 312 2600 Campus Road Honolulu, HI 96822 (808) 956-7927 <a href="mailto:uhmcsdc@hawaii.edu">uhmcsdc@hawaii.edu</a> www.manoa.hawaii.edu/counseling

# University Health Services Mānoa (UHSM)

The University Health Services Mānoa (UHSM) is staffed by physicians, nurse clinicians, nurses, and other support staff, and offers a wide range of medical services and programs to UH Mānoa students, with many of the services also available to UH Mānoa faculty and staff and students from other UH campuses. Services include general medical care on a walk-in basis; women's health, sports medicine, psychiatry, and dermatology clinics by appointment; pharmacy and clinical laboratory; and student training, employment and volunteer opportunities.

1710 East West Road Honolulu, Hawaii 96822 Honolulu, HI 96822 (808) 956- 8965 www.hawaii.edu/shs/

[or]

If you wish to remain **ANONYMOUS**, speak with someone **CONFIDENTIALLY**, or would like to receive information and support in a **CONFIDENTIAL** setting, contact the confidential resources available here:

http://www.manoa.hawaii.edu/titleix/resources.html#confidential

If you wish to <u>REPORT</u> an incident of sex discrimination or gender-based violence including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence or stalking as well as receive information and support, contact:

#### **Dee Uwono**

Director and Title IX Coordinator Hawai'i Hall 124 2500 Campus Road Honolulu, HI 96822 (808) 956-2299 t9uhm@hawaii.edu

As a member of the University faculty, I am <u>required to immediately report</u> 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, EP 1.204, go to: http://www.manoa.hawaii.edu/titleix/

# Chemistry 161 – General Chemistry

Tentative Spring 2021 Schedule

Prof. Amy Fuller amy.fuller@hawaii.edu T/R 9:00 – 10:15

Office Hours schedule by email

			January		
Week	Mon	Tue	Wed	Thurs	Fri
1	11	12 - Ch. 0	13	14 - Ch. 1	15
2	18 - MLK Jr Day	19 - Ch. 1/2	20	21 - Ch. 2	22
3	25	26 - Ch. 2/3	27	28 - Ch. 3	29
	February				
	Mon	Tue	Wed	Thurs	Fri
4	1	2 - Ch. 3	3	4 - Exam 1	5
5	8	9 - Ch. 4	10	11 - Ch. 4	12
6	15 - President's Day	16 - Ch. 4/5	17	18 - Ch. 5	19
7	22	23 - Ch. 5/6	24	25 - Ch. 6	26
March					
	Mon	Tue	Wed	Thurs	Fri
8	1	2 - Ch. 6	3	4 - Exam 2	5
9	8	2 - Ch. 7	10	11 - Ch. 7	12
10	15 - Spring Recess	16 - Spring Recess	17 - Spring Recess	18 - Spring Recess	19 - Spring Recess
11	22	23 - Ch. 7	24	25 - Ch. 8	26 - Kuhio Day
12	29	30 - Ch. 8	31		
April					
	Mon	Tue	Wed	Thurs	Fri
12				1 - Ch. 8/9	2
13	5	6 - Ch. 9	7	8 - Ch. 9	9
14	12	13 - Exam 3	14	15 - Ch. 10	16
15	19	20 - Ch. 10	21	22 - Good Friday	23
16	26	27 - Ch. 11	28	29 - Ch. 11	30
			May		
	Mon	Tue	Wed	Thurs	Fri
17	3	4 - Ch. 11	5	6 - No Instruction	7 - Study Day
18	10	11 - Final 9:45	12	13	14

Approximate Grading Scale

Overall %	Grade Earned
98.0% and above	A+
93.0-97.9%	A
90.0-92.9%	A-
88.0-89.9%	B+
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78.0-79.9%	C+
73.0-77.9%	С
70.0-72.9%	C-
68.0-69.9%	D+
63.0-67.9%	D
60.0-62.9%	D-
59.9% or below	F

Tentative Grading	pts each	total
Exams	3 x 100	300
Final Exam	1 x 150	150
Homework*	12 x 10	120

Total Points 570

\*other assignments may be assigned

Late homework will receive a 10% penalty per day. Homework can't be submitted more than three days late. Exams will be held on the scheduled day and time. Missed exams can not be made up.

# **CHEM 161 – General Chemistry I (Syllabus)**

Spring term, 1/11 – 5/13, 2021 T, R 1:30 to 2:45PM, CRN 93261, section 003.

Prerequisite: Placement Exam

Instructor: **Dr. Jeff Romine** Office: 321A Bilger Hall Email: rominej@hawaii.edu

Course description: <a href="https://manoa.hawaii.edu/chem/academics/courses/">https://manoa.hawaii.edu/chem/academics/courses/</a>

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Week 6 Feb 15 <sup>th</sup> - 19 <sup>th</sup>	Chapter 5: Stoichiometry
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Week 9 March 8 <sup>th -</sup> 12 <sup>th</sup>	Chapter 7: Gases
Week 10 March 14 <sup>th</sup> - 19 <sup>th</sup>	No class (spring break)
Week 11 March 22 <sup>nd</sup> - 26 <sup>th</sup>	Chapter 8: The Quantum Model of the Atom
Week 12 March 29 <sup>th</sup> —April 2 <sup>nd</sup>	Chapter 9: Periodicity & Ionic Bonding
Week 13 April 5 <sup>th</sup> - 9 <sup>th</sup>	Review and Midterm 3 Exam
Week 14 April 12 <sup>th</sup> - 16 <sup>th</sup>	Chapter 10: Covalent Bonding
Week 15 April 19 <sup>th</sup> - 23 <sup>rd</sup>	Chapter 11: Molecular Shape & Bonding Theories
Week 16 - 17 April 26 <sup>th</sup> – May 7 <sup>th</sup>	Course Review
Week 17 May 13 <sup>th</sup>	Final Exam

<sup>\*</sup>Changes may be made at the discretion of the instructor.