

Summer 2024 Chemistry 151 with Dr. Michael A. Russell

CH 151, Mt. Hood Community College, Gresham, Oregon, USA 97030

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Chemistry 151 website:
<http://mhchem.org/151>

Email: mike.russell@mhcc.edu

Office Hours: Held on **Discord** at <https://discord.gg/QRcwa5P3Y4>, M 10 AM - noon
and also W noon - 2 PM

Required/Recommended Materials:

- * "Chemistry" by The OpenStax College (978-1-947172-62-3),
available here for free: <http://mhchem.org/text/OpenStaxChem.pdf>
- * *The Chemistry 151 Companion*, purchase here: <http://mhcc.edu/bookstore>
- * Calculator with at least EXP or EE (such as the TI-83, TI-89, etc.)



Course Description: CH 151 is a basic course designed for students who want to take the CH 221/222/151 sequence but lack sufficient math and/or chemistry background. This one-term course includes mathematical applications appropriate for the first term of the above chemistry sequence, as well as an introduction to classification of matter, atomic theory, stoichiometry and nomenclature.
Prerequisite: RD090, WR090, each with a grade of "C" or better; or placement above levels. **Co-requisite:** MTH 095 or higher.

Course Philosophy: To be successful, students enrolled in this summer accelerated chemistry course should complete all assignments before coming to class, attend classes regularly, participate in discussions, and think critically to discover the fundamental theories inherent to this course. All homework assignments represent the *minimum* requirement for understanding the principles of chemistry. It is assumed that A and B students will perform enough *unassigned* exercises to master the concepts.

I encourage questions in this class. If you contact me by email, I will respond to you normally within 24 hours..

The Honor Principle: All students will be expected to behave with the highest moral and academic integrity while enrolled in this class. Plagiarism, cheating or sharing information on tests or laboratory reports, disruptive behavior, and other related offenses will be dealt with according to the directives stated in the current *Mt. Hood Community College Student Guide*. Offering, asking for, giving or receiving help from a person or website without instructor consent is cheating. Copying and/or sharing any course materials outside this class is not allowed and illegal due to copyright laws.

Grading:	Midterm Exam	140 points	23.3% of total points
	Quizzes (4 total, 20 points each)	80 points	13.3%
	Final Exam	200 points	33.3%
	Problem sets (4 total)	40 points	6.7%
	Seven lab experiments (20 points each)	140 points	23.3%
	Total points:	600 points	100% (99.9%)

Tentative grading distribution: A: 90-100% B: 80-89% C: 65-79% D: 50-64% F: less than 50%

Problem Sets should include your name, the problem assignment, the setup for the problem (with units), and a circled final answer. Your **problem set grade** will be one of four possibilities: a check plus (10 points, indicates completion of the assignment with *most* of the answers correct), a check (7 points, indicates partial or total completion of the assignment with *some* answers correct), a check minus (3 points, indicates an incomplete or late assignment) and a zero for assignments not turned in. Late assignments are worth a maximum of three points.

Exams, Quizzes, Problem Sets and Labs will be completed on your own and submitted via email to the instructor by 9 AM Friday. Assignments should be submitted as PDF, Word or Google Documents format, and each assignment must be submitted as one file (i.e. if an assignment has five pages, you must submit it as a single file and not as five separate pages.) Details regarding grading will be discussed during the first week of the term.

Late Assignments will suffer a point penalty. **Quizzes, the midterm and the lecture final** *must* be turned in on time, otherwise the assigned score will be a zero - these will not be accepted late for credit.

"What's Due This Week" Schedule for CH 151 Summer 2024

All assignments (problem sets, quizzes, labs, etc.) can be found on the *Chemistry 151 website* (<http://mhchem.org/151>)

<u>Week</u>	<u>Dates</u>	<u>Assignment</u>
1	6/24 - 6/28	<i>Begin:</i> Problem Set #1, Introduce Yourself Lab, Quiz #1, Problem Solving Lab
	6/26	<i>Due:</i> <u>Problem Set #1 Chapter 1</u> by Wednesday, June 26 by 11:59 PM via email
	6/26	<i>Due:</i> <u>Introduce Yourself Lab (Lab #1)</u> by Wednesday, June 26 by 11:59 PM via email
	6/28	<i>Due:</i> <u>Quiz #1</u> available late 6/26, due by Friday, June 28 at 9 AM via email
	6/28	<i>Due:</i> <u>Problem Solving Lab (Lab #2)</u> by Friday, June 28 at 9 AM via email
2	7/1 - 7/5	<i>Begin:</i> Problem Set #2, Nomenclature Lab, Quiz #2, Density Lab
	7/3	<i>Due:</i> <u>Problem Set #2 Chapter 2 and 3</u> by Wednesday, July 3 by 11:59 PM via email
	7/3	<i>Due:</i> <u>Nomenclature Lab (Lab #3)</u> by Wednesday, July 3 by 11:59 PM via email
	7/5	<i>Due:</i> <u>Quiz #2</u> available late 7/3, due by Friday, July 5 at 9 AM via email
	7/5	<i>Due:</i> <u>Density Lab (Lab #4)</u> by Friday, July 5 at 9 AM via email
	7/5 - 7/7	<i>Begin:</i> Midterm Exam (available late July 5, due Sunday by 11:59 PM)
		<i>Due:</i> MIDTERM EXAM by Sunday, July 7 at 11:59 PM via email
3	7/8 - 7/12	<i>Begin:</i> Problem Set #3, Crossword Lab, Quiz #3, Chemical Equations and Reaction Types Lab
	7/10	<i>Due:</i> <u>Problem Set #3 Chapter 4</u> by Wednesday, July 10 by 11:59 PM via email
	7/10	<i>Due:</i> <u>Crossword Lab (Lab #6)</u> by Wednesday, July 10 by 11:59 PM via email
	7/12	<i>Due:</i> <u>Quiz #3</u> available late 7/10, due by Friday, July 12 at 9 AM via email
	7/12	<i>Due:</i> <u>Chemical Equations and Reaction Types Lab (Lab #5)</u> by Friday, July 12 at 9 AM via email
4	7/15 - 7/19	<i>Begin:</i> Problem Set #4, Quiz #4, Percent Potassium Chlorate Lab, Final Exam
	7/17	<i>Due:</i> <u>Problem Set #4 Chapter 4 and Chapter 6</u> by Wednesday, July 17 by 11:59 PM via email
	7/17	<i>Due:</i> <u>Quiz #4</u> available late 7/15, due by Wednesday, July 17 by 11:59 PM via email
	7/17	<i>Due:</i> <u>Percent Potassium Chlorate Lab (Lab #7)</u> by Wednesday, July 17 by 11:59 PM via email
	7/19	<i>Due:</i> FINAL EXAM available late 7/17, due by Friday, July 19 at 9 AM via email

All assignments due to the instructor via email (mike.russell@mhcc.edu) on the date and time listed above.

The **textbook** for this class is **free and available here:** <https://mhchem.org/text/OpenStaxChem.pdf>

Assignments received past the deadline will be considered late with the exception of quizzes, the Midterm Exam and Final Exam; these will receive a grade of zero.

Rules for Turning in Assignments to the Instructor this Quarter

All problem sets, labs, quizzes, exams, and other work must be submitted to the instructor via email to mike.russell@mhcc.edu.

Assignments *must* be contained within one file only. If an assignment consists of multiple pages, you must combine the individual pages into a single file before submitting to the instructor.

Acceptable file formats this quarter include PDF (preferred), Word documents (.doc or .docx) and Google Documents shared files... you select the file format which is easiest for you.

Getting the assignment into a PDF, Word or Google Document is not difficult. Here are four common approaches used by students in previous classes... feel free to use all of just one of them, or if you find an alternative method, let the instructor know! :)

1 - If you have a printer and wish to complete the work "by hand".

- print the assignment and fill out as usual. You cannot print at MHCC currently so this must be done on your own.
- On your **phone** (Android or iPhone), use a free program like **CamScanner** to make pdf scans and combine into one file
- email to the instructor! done!

2 - if you have a tablet (iPad, Surface, etc.) and can write directly on the screen:

- Download the PDF file (to the desktop, Google Drive, etc.)
- Use a program which allows you to import the PDF and write directly on the tablet. Examples include (but are not limited to): GoodNotes (my current favorite), Notability, Apple Notes, Evernote, OneNote, Google Keep, Typora or Microsoft OneNote Some of these programs might have a cost associated with them.
- Email the completed PDF assignment to the instructor... you're done!

3 - If you wish to complete assignments in Microsoft Word: *(Note: as a MHCC student, you can access Microsoft Office for free on both Windows and Mac platforms. More info: <https://mhcc.edu/OfficeInstall/>)*

- Open the PDF file in Word. Modern versions of Word will convert the file for you so you can complete the work within the Word program.
- To Save your work as a PDF:
 - On Mac: File -> Print -> PDF -> Save as PDF
 - In Windows (Windows 10): File -> Print -> Microsoft Print to PDF (More info for Windows users: <https://www.howtogeek.com/361612/how-to-create-a-pdf-file-in-windows/>)
- Email the completed PDF assignment to the instructor... you're done!

Please note that the formatting of the original PDF file does not have to be maintained. Using Word files can alter the formatting... but as long as the question order is maintained, and I can see which question you're answering, etc. all will be well.

4 - If you wish to complete assignments in Google Documents:

- Save the assignment to your Google Drive.
- Right click/Control click on the PDF file, then Open with Google Docs
- Complete the assignment
- To Save your work as a PDF file:
 - On Mac: File -> Print -> Print from my Computer, then File -> Print -> PDF -> Save as PDF
 - In Windows: File -> Download -> PDF Document (.pdf)
- Email the completed PDF assignment to the instructor... you're done!

Please note that the formatting of the original PDF file does not have to be maintained. Using Google Doc files can alter the formatting.... but as long as the question order is maintained, and I can see which question you're answering, etc. all will be well.

Getting Started in Chemistry 151

Welcome to Chemistry 151! I am glad to have you enrolled in CH 151! Here are some hints on how to get started in the class:

- First, **know that I am here to help you succeed in this class.** If you have any questions, please email me (mike.russell@mhcc.edu). I try to respond to student inquiries within 24 hours.
- **All relevant assignments** (problem sets, papers, etc.) as well as assessments (quizzes, etc.) will be **due at the time and date listed on the second page of the syllabus ("What's Due This Week".)** This applies to all students in all sessions. Assignments must be emailed in a suitable format (PDF, Word document, shared Google drive, etc.) for credit, and if the assignment is late, even for technology reasons, a point penalty will apply. I prefer that you email the assignments to me at mike.russell@mhcc.edu.
- **All assignments must be submitted in one single file.** If an assignment has five pages, do **NOT** send me five individual files. You are responsible for getting the separate pages into one file. The process is not hard; see page 3 of the syllabus for methods used successfully by students in the past, and email the instructor if you have any questions. If multiple assignments are due (i.e. a problem set, lab and quiz), I prefer that these be submitted individually (don't combine these in to one file.)
- You can **get the assignments** (problem sets, quizzes, labs, exams, etc.) **from the Chemistry 151 website** (see below.) If you need to save a copy of the assignment to your computer, "right click" (or control-click on a Mac) followed by "Download the file" or "Save the file"
- The "What's Due This Week" **Schedule for CH 151** located on page 2 of your syllabus **lists all the problem set due dates, assignment deadlines, labs performed, exam/quiz dates, and related information for this term.** You can plan your term by referencing this handout. I will also send out frequent email messages... follow my emails closely!
- The **Chemistry 151 website** is worth exploring. The Chemistry 151 website has a host of learning opportunities waiting for you. You can download and/or print copies of the syllabus, problem sets, quizzes and exams, labs, quiz answers, and more. The website is:

<http://mhchem.org/151>
- The **Chemistry 151 Textbook** is **free and legal to download** from our website: <http://mhchem.org/text/OpenStaxChem.pdf>
- **Office hours will be held on the CH 151 Discord server** (<https://discord.gg/QRcwa5P3Y4>). I will always be there Mondays (10 AM - noon) and Wednesday (10 AM - noon). ***There will be no "face to face" office hours at MHCC this term.*** Also: you can receive free and chemistry-specific help from the **AVID/Learning Success Center** at MHCC via Zoom - view their **website** (<https://www.mhcc.edu/lsc/>) for more information.
- You can **download** the entire **Microsoft Office** suite of programs (Word, Excel, PowerPoint, etc.) **for free**... see this link for information: <https://mhcc.edu/OfficeInstall/>

Again, welcome to Chemistry 151! Let me know if I can make your learning experience better in any way, and I look forward to working with you this term!

Peace, Dr. Michael Russell (mike.russell@mhcc.edu, 503.491.7348, AC 2568)