



CHM 151*** General Chemistry I (Section 28625)

3 credit hours

INSTRUCTOR: Dr. Paul Gilletti EMAIL: gilletti@mesacc.edu

Or paudy84101@mesacc.edu

OFFICE: Building 15 PS-209 Appointments are necessary due to Covid.

PHONE: Office 480.461-7685

**All information here is subject to change as needed or required.

As per MCCCD rules, you are required to wear a mask in any building on any campus.

Office Hrs: Virtual by email appointments. Monday: 11:00-11:50 live in PS225 and virtual 2:00-2:50 appointment required, Tuesday 1:30-2:30 virtual or in person, Wednesday 2:30-3:30 virtual, Thursday 1:30-2:30, Friday (appointment only).

To make an appointment, email me through canvas at <u>paudy84101@mesacc.edu</u>. Please indicate your questions and/or problems and times during which you will be available. If possible, a screenshot of your question may help. I will respond as soon as possible with an appointment. Conferences can then be setup **On-line (Webex or Zoom)**.

REQUIRED TEXT: The book we will use is **free online** at:

https://openstax.org/details/books/chemistry-2e Click on the Chemistry 2e book (not the one that says atoms first). If you wish, a hard copy can be ordered for around \$53. We will cover the first 11 chapters in CHM151. CHM152 uses the second half of the book.

I will always assume that you READ the material, but I won't assume you will understand everything you read. I will try to clarify the material, but reading is a very important part of becoming educated and preparing you for your career.

A Calculator with scientific notation (log, ln, xy) is also required.

The lecture classes will be in person. <u>Your attendance is expected</u>. (I may also try to record and post each class session in canvas announcements.)

Web Page: https://gillettichemistry.com (Many of my Powerpoint presentations, assignments and old quizzes and exams are available)

<u>Computer requirements</u>: To get information about the minimum requirements for the computer set up and access some helpful resources and tips to help you get prepared for an online class, please follow this link: https://www.mesacc.edu/online/get-started

OFFICE 365 is available as a free download with your student ID number and it contains the full version of excel, Word, and PowerPoint. To download Office 365 start on this link:

https://mesacc.edusupportcenter.com/sims/helpcenter/common/layout/SelfhelpArticleView.seam?inst_name=mesa &article id=1796-1327417 There are versions for Windows and Macs.

Tutoring:

The Learning Enhancement Center (LEC) is excited to inform you that tutoring services will resume on campus this semester! We will offer both in-person (<u>by appointment</u>) and online (drop-in) tutoring. You can access all information regarding our services and schedules at our website, <u>www.mesacc.edu/students/tutoring</u>.

Virtual Online Tutoring:

For students who are unable to use our on-campus services, our <u>Virtual Tutoring Center</u> **will continue to offer** drop-in tutoring (so no appointment is necessary!). Our online tutoring is conducted through Cranium Cafe, where students can have video meetings and instant chats with tutors, upload and collaborate on documents, and organize your thoughts with a virtual whiteboard. To meet with a tutor in the Virtual Tutoring Center, visit https://www.mesacc.edu/online-tutoring. Additional Online Tutoring is available for all MCC students through Brainfuse (24/7 availability). Students are limited to 10 hours of online tutoring per semester using this platform.

On-Campus Tutoring

For those who are on campus, we highly encourage making use of our **in-person appointments**, as they provide face-to-face tutoring in safe learning spaces. Appointments for in-person tutoring will be available beginning August 23. All appointment slots are 25 minutes, unless otherwise noted by the center. Students can book a second appointment immediately after concluding a tutoring session. To book a tutoring appointment, visit https://tutortraclec.mesacc.edu and follow the prompts on the screen. Instructions are also attached to this email.

Locations, student resources, and some appointment procedures vary by center. Please note these specific details as you book your appointment with the center that meets your tutoring needs.

At times, you will participate in the course using Canvas learning management system. To log into Canvas go to the MCC webpage, click on the Canvas tab, and log in using your MEID and password. You must provide the same first and last name in Canvas as the one on the official class roster in SIS. NO NICKNAMES OR PSEUDONYMS! Check out this Canvas Tutorial to get familiar with the platform.

<u>Canvas download to upload assignments</u>: Some of your assignments must be scanned and uploaded into canvas. I prefer them as single files, either Word documents or scanned pdf files. If you download a free scanning app such as Adobe Scan on your smart phone, you can scan a document using your phone's camera in pdf format (you must put multiple pages in <u>one</u> document by using the continue button and scanning the next page(s)). Then after naming and saving the file, you can upload it using the canvas app directly into canvas. In the app store for your cell phone, there is a free **Canvas** app that can be linked to your canvas account through your cell phone. This app makes uploading a file easy.

NETIQUETTE: It is important to understand how to interact with one another online, netiquette. You can read more about it here <u>Rules of Netiquette</u>.

Statement of Student Responsibility: As a registered student in this class, it's your responsibility to know and understand the contents of this syllabus. Ask if you have any questions! Every student attending Mesa Community College is expected to know and comply with all current published policies,

rules, and regulations as printed in the college catalog, class schedule, and/or MCC 2020-2021 Student Handbook

I plan on giving most of the exams and quizzes during the regularly scheduled class times. I will usually announce the quiz times one class session before the quiz. I will announce exams one week in advance.

Some of the assignments and quizzes will have to be worked out on paper and scanned in pdf format to upload in canvas. Refer to the canvas app mentioned above.

HOMEWORK: 3 bonus points will be awarded for each chapter (details are provided in the homework assignment document). I strongly suggest you keep a spiral notebook to work the assigned end of the chapter problems. The problems I have assigned have answers at end of the book to allow you to check your answers. The problems should be worked in organized detail to provide you with a study guide in preparation for quizzes and exams. You should work homework at the pace of the class to be well prepared. Homework improves knowledge retention and improves scores.

CELL PHONES: MAY NOT BE USED DURING QUIZZES OR EXAMS and Should not be used during class times.

There are practice tests on the Internet (These are for different books, but each of them contains practice quizzes, tests and other material). Links are provided below.

Silberberg Book (4th edition): This site provides practice quizzes that are graded online and other learning aides:

http://highered.mcgraw-hill.com/sites/0072396814/student_view0/index.html

9th Ed of Brown and Lemay. This contains practice quizzes and exams that are graded online. It is good practice for quizzes and exams. https://wps.prenhall.com/esm brown chemistry 9/

ATTENDANCE: Attendance will be taken each class period and a withdrawal (W/Y) <u>MAY</u> be initiated after three consecutive absences. Withdrawal from class is the student's responsibility. See the current Mesa Community College catalog and paragraph below for withdrawal procedures. It is my experience that attendance and class performance are very closely related, arrive prepared and on time each day. If you do not take the final exam, you will be given a withdrawal.

WITHDRAWAL: See your student schedule in *my.maricopa.edu* for the Last Day to Withdraw without an Instructor Signature for each class in which you are enrolled (This is the first seven weeks from when the class started). After that time your instructor's signature is required. (Refer to the Important Deadlines for Students to determine the Last Day Student Initiated Withdrawal will be accepted.). Either a withdrawal passing (W) or a withdrawal failing (Y) may be given, based upon student performance***. If for any reason you need to withdraw from the class, please see or email me.

STUDY HABITS AND WORK ETHIC: This is a rigorous class. It requires a great deal of time to master the material covered in this course. Students who attend class regularly and work

assigned problems have a much greater success rate. It is strongly suggested that you study a <u>MINIMUM</u> of two to three hours for every lecture hour. If your background is weak, you should plan on spending more time. DO NOT GET BEHIND. Please contact me if you are having difficulty. Remember many of you are going to take more chemistry classes in the future, so you must work to understand and retain the material. <u>I also recommend forming study groups</u>, which can even be done online with zoom, webex or some other platform. Please contact me if you are having difficulty or get tutoring.

ACADEMIC DISHONESTY POLICY: See the current MCCD student handbook on the academic dishonesty policy. Academic dishonesty may include: representation of the work of other's as one's own, use of unauthorized assistance in academic work, failure to cite sources used, copying the work of another student on any form of a test, helping others cheat, etc. Repercussions can be found in the student handbook and range from a warning to dismissal from the course with a failing grade.

STUDENTS WITH DISABILITIES: Students with disabilities must have an equally effective and equivalent educational opportunity as those students without disabilities. Students experiencing difficulty accessing course materials because of a disability are expected to contact the course instructor so that a solution can be found that provides all students equal access to course materials and technology.

Information for Students with Disabilities: If you have a documented disability, including a learning disability, and would like to discuss possible accommodations, please contact the MCC Disabilities Resources and Services Office at 480-461-7447 or email drsfrontdesk@mesacc.edu..

Information for Pregnant or Parenting Students: If you are a pregnant or parenting student you are protected under Title IX regarding classroom accommodations. Please request your accommodations through the MCC Disabilities Resources and Services Office at 480-461-7447 or email drsfrontdesk@mesacc.edu.

Mandatory DRS and Title IX Syllabus Statements:

The following link will take you to the MCCCD district policy statements.

https://district.maricopa.edu/mandatory-drs-title-ix-syllabus-statements

EARS (Early Alert Referral System) MCC Early Alert Program (EARS)

Mesa Community College is committed to the success of all our students. Numerous campus support services are available throughout your academic journey to assist you in achieving your educational goals. MCC has adopted an Early Alert Referral System (EARS) as part of a student success initiative to aid students in their educational pursuits. Faculty and Staff participate by alerting and referring students to campus services for added support. Students may receive a follow up call from various campus services as a result of being referred to EARS. Students are encouraged to participate, but these services are optional.

Early Alert Web Page with Campus Resource Information can be located at: http://www.mesacc.edu/students/ears or locate the "Early Alert" selection at the "mymcc" link from MCC's home page.

DATES:	
MLK Day Monday, January 17	NO CLASS

FINAL EXAM: MWF. 7:30 a.m. class Thursday May 12th7:30-9:20 am

The final exam is comprehensive over the material in the eleven chapters we will cover.

GRADING POLICY:

I will give at least 8 quizzes worth 40 points each and will keep your best 7 scores. I will usually announce a quiz on period in advance. Most will be taken in class.

A midterm over chapters 1-6, 100 points will be given. <u>Date to be announced one week in advance</u>.

Final examination, 200 points (comprehensive final).

A B C D 90-100% 80-90% 70-80% 60-69% (580 pts possible)

 $\underline{\text{NO}}$ Quizzes or exams will be given after the scheduled times. Extraordinary circumstances $\underline{\text{may}}$ dictate otherwise.

*** Lab is a separate one-credit (CHM 151LL) course. Unless previously taken, a student must be enrolled in a lab.

COURSE COMPENTENCIES: Available on the Internet

https://curriculum.maricopa.edu/curriculum/courses/search-course-bank?course=CHM151

General Information: (we will cover chapters 1-11 CHM151)

Suggestions for homework: Keep worked problems in a <u>SEPARATE</u>, <u>homework only</u>, thin spiral or stitched composition type. Write in the starting time (and date) and ending time of each problem working session to help you in "time tracking". When working problems you should show as much detail as possible <u>including</u> writing notes to yourself and reference pages so studying at test time becomes a review and your homework notebook is your study guide.

Hint: When solving problems always determine what is being asked first and its units (and if necessary, its place in a formula), then what is given and its units (and if necessary, how it fits in a formula), and finally convert what is given into what is desired to solve the problem.

Answers to some chapter problems are located near the end of book. I also recommend you look over the appendixes so you will know where to find information as needed. There is a MATH REVIEW in the appendixes (consult when necessary).

^{***}This is the first of a two-semester course, providing a detailed study of the principles of chemistry for science majors and students in pre-professional curricula. Prerequisites: CHM 130 and CHM 130LL or one year high school chemistry and completion of intermediate Algebra or the equivalent.

PERIODIC TABLE OF THE ELEMENTS

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1A 2 Н He **2A 3A 4A 5**A **6A 7A** 1.008 4.003 3 6 9 10 В F Li Be \mathbf{C} \mathbf{N} 0 Ne 16.00 19.00 6.941 9.012 10.81 12.01 14.01 20.18 11 12 13 14 15 16 17 18 Na Mg Al Si P S Cl Ar **3B 4B 5B 6B 7B** 8B 1B **2B** 22.99 24.31 26.98 28.09 30.97 32.07 39.95 35.45 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 K Ca ScTi V \mathbf{Cr} Mn Fe Co Ni Cu Zn Ga Ge Se Br As Kr 39.10 44.96 47.88 50.94 55.85 79.90 40.08 52.00 54.94 58.93 58.69 63.55 65.39 69.72 72.61 74.92 78.96 83.80 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 Rb \mathbf{Sr} Y Zr Nb Mo Tc Ru Rh Pd **Ag** 107.9 \mathbf{Cd} In Sn Sb Te I Xe 126.9 85.47 87.62 88.91 (98)101.1 102.9 106.4 112.4 114.8 118.7 131.3 55 79 56 57 72 73 74 75 76 77 78 80 81 82 83 84 85 86 W Cs Ba La Hf Ta Re Os Ir Pt Au Hg Tl Pb Bi Po At Rn 183.8 192.2 132.9 204.4 137.3 138.9 178.5 181.0 186.2 190.2 (222)87 104 107 108 109 88 89 105 106

58	59	60	61	62	63	64	65	66	67	68	69	70	71
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140.1	140.9	144.2	(145)	150.4	152.0	157.3	158.9	162.5	164.9	167.3	168.9	173.0	175.0
90	91	92	93	94	95	96	97	98	99	100	101	102	103
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
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Une

(266)

I recommend you fill this out for you own use Student Study Schedule

Use this schedule to plan your week. Schedule chemistry and other classes or labs. Allow two to three study hours between each chemistry lecture before the next lecture occurs. Allow study time for all classes and labs. Then include work, travel time, family time, meals, sleep, exercise, etc. Remember you NEED SLEEP.

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WEEKEND STUDY TIMES. DON'T WASTE FRIDAY AFTERNOON AND EVENING AS WELL AS SATURDAY AND SUNDAY.

CHEMISTRY INFORMATION

Please print complete and return via canvas upload by the time of the next class meeting.

Semester:	<u>Spring</u>	Year:_	2022	_Course: _	<u>CHM</u>	151_	Section:	28625
Name:			Phone:		er	nail:		
Major and	CAREER Goal*:							
	Hours You Are Work							ies and
Number of	Credit Hours You are	e Taking	j:					
Previous <u>C</u>	<u>Chemistry</u> Courses Tal	ken:		Date T	<u>aken</u>	Name	e and/or Lo	cation of School
	Course(s):							
College Che	mistry Course(s):							
Highest Le	evel Math you have co	ompleted	l:					
Math Curre	ently being taken:							
Future Cher	mistry courses that you	are plann	ning to tak	e at MCC:				
	rief statement detaili s that are required t							
I have rece	vived the syllabus and	am resp	onsible f	or its conte	ent	signa	ture	