



INSTRUCTOR: Dr. Paul Gilletti EMAIL: [gilletti@mesacc.edu](mailto:gilletti@mesacc.edu) or [paudy84101@mesacc.edu](mailto:paudy84101@mesacc.edu)

OFFICE: Building 15 PS-209 PHONE: Office 480.461-7685

Web Page: <https://gillettichemistry.com> Note: cannot be reached through the Maricopa internet, must be on your own wifi. (Many of my Powerpoint presentations and old quizzes and exams are available as well as a lab page link.)

**Office Hrs PS-209:** Monday 10:30-11:20, Tuesday 10:30-11:20, Wednesday 2:00-2:50, Thursday 3:00-3:50, **(Friday 10:30-11:20 by appointment only)**. To make an appointment, email me through canvas at [paudy84101@mesacc.edu](mailto:paudy84101@mesacc.edu). 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)**.

All labs are on-line in pdf format. The WEB address, is shown below. You will be required to read, print out and bring the laboratory experiment before coming to lab. I also require you to bring the NEXT week's lab as we will look at the prelab associated with it. You should download and save all of the experiments in case of an internet outage. Excuses for not having the printed experiment are not accepted.

**Lab Schedule:** The lab schedule and experiments are found in this link:

[https://docs.google.com/document/d/1YwgCLTi9tVeuRTgp2u3b0rT4dNg\\_OD5T-WVGDHFC-A/edit](https://docs.google.com/document/d/1YwgCLTi9tVeuRTgp2u3b0rT4dNg_OD5T-WVGDHFC-A/edit)

**PRE-LABS** should be done before the class meets and will be checked during lab.

**LAB DUE DATES:** Each lab will be due at the **BEGINNING** of the *next* lab meeting (usually 1 week from actual experiment). If you encounter problems with the write-up please see me **BEFORE IT IS DUE**. It is strongly suggested that you begin writing up your lab *immediately* upon completion while the lab is fresh in your mind.

Late 1 day (or five minutes): -2.5 points (10%)      Late 2 days: -5 points  
 Late 3 days: -10 points      Late 4 days: -20 points      Late 5 days: KEEP IT!  
*The weekend counts as one day.*

**Post Lab Quizzes:** May be given when labs are handed in to check for understanding.

**GRADING:** Each Lab and/or minor quiz is worth 25 Pts. Major Quizzes are worth 50 Pts. There will a **LAB FINAL** covering material and techniques you learned during the semester (50 Pts). The Final Exam questions are mainly taken from the pre and post lab questions from your laboratory experiments so be sure to have a good understanding of each lab and review them for the final. Failure to take the final exam will result in a W or Y.

Five points of each 25 point lab are instructor discretionary points and will be forfeited if ANY of the following criteria are not met.

- Must be prepared and have a printed copy of the lab.
- Must have proper shoes and other attire and follow safety rules.
- Must wear safety goggles when required.

**Must Obtain instructor's initials on your data before leaving lab.**  
**Instructor's observation of proper laboratory techniques (poor technique = loss of points).**

**Grade Scale (%):** 90-100 A; 80-89 B; 70-79 C; 60-69 D; <59 F.

(Note, missing a lab = 25 points off grade total and lowers your grade by ~7%, which is almost a FULL LETTER GRADE.) It behooves you to not miss any labs, see me if you must miss or have missed a lab. **Missing three labs will result in an F or W for the course.**

**DATA** should be recorded in INK. Changes are made by drawing a single line through the data, placing your initials near the cross out, and then writing correct data. Data refers to numbers or observations made during the experiment, not to calculations performed or questions answered.

Example: ~~0.1503 cm~~ PG 0.1603 cm

**All numbers less than 1 must begin with a 0 not just a decimal point.**

Example: 0.5 is correct not .5 (There have been cases of patients dying due to doctors having written a prescription with just the decimal and not the 0, see the last page of this document.)

Any calculations or questions answered can be done in **pencil** (if a number is obtained by any mathematical operation, it is considered a calculation). Significant figures in data and calculations will be graded so be sure to use all significant digits (i.e. 5.0 vs 5 or 5.00).

**\*\*\*\*\*BEFORE you leave the lab, you must obtain the instructor's initials on your data.\*\*\*\*\***

**CELL PHONES: MAY NOT BE USED DURING CLASS, NOT EVEN TEXTING.**

**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.

**WITHDRAWAL:** See your student schedule in [my.maricopa.edu](http://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\*\*\*.

**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](tel:480-461-7447) or email [drsfrontdesk@mesacc.edu](mailto:drsfrontdesk@mesacc.edu).

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 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](tel:480-461-7447) or email [drsfrontdesk@mesacc.edu](mailto:drsfrontdesk@mesacc.edu).

### **MCC Early Alert Referral 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.

### **Face Coverings Rule**

In accordance with the Maricopa County Community College District (MCCCD) policy (per Chancellors emails 2022):

Face coverings are encouraged, but not required for staff, faculty, students, and guests inside all Mesa Community College (MCC) buildings.

Please provide respect and support for all individuals no matter what their masking choice may be. MCCCD understands that all individuals – employees, students, and community members – may feel safer or more comfortable wearing a face covering.

### *Covid Reporting Requirements*

Members of the Maricopa County Community College District (MCCCD) community must notify Risk Management if they are diagnosed with COVID-19 or if they believe they have been exposed to COVID-19. This includes students who are enrolled in either in-person, hybrid (in-person and online combination) and/or online classes at Mesa Community College.

Your personally identifiable information, including name, address, and medical conditions will remain confidential and will not be shared with instructors, other students, or staff but your information may be shared with local health authorities as permitted under the ADA. For more information and/or to submit a COVID report, visit: <https://together.maricopa.edu/health-safety/covid-19-reporting>

### **Online Tutoring by Brainfuse**

All MCC students have access to 10 (ten) hours of free online tutoring by [Brainfuse](#) in multiple sessions throughout the semester by choosing an option below:

- Live Help – Receive instant support for various subjects
- Writing Lab – Have your writing reviewed by a tutor
- Offline Questions – Send a tutor an academic question.
- And More!

## **Learning Enhancement Center**

We care about your success! In addition to meeting with your instructor, as an MCC student you are encouraged to use FREE tutoring and other support services in the Learning Enhancement Center (LEC).

Visit one of nine LEC locations to reinforce your understanding of course concepts and improve performance in your course(s). Fall 2020 semester: our highest priority during the COVID-19 crisis is the health, safety, and well-being of all students, faculty, and staff; thus, our services can be accessed online.

To connect to with a tutor, and for a full list of subjects, visit <https://www.mesacc.edu/students/tutoring/tutoring-online>

## **Student Resource Referral Guide**

If you need support with academic or basic needs at MCC, such as tutoring and transportation issues, there are resources available to assist you. MCC has compiled a list of them, which can be found in the following link: Student Resource Referral Guide.

<https://www.mesacc.edu/get-help>

## **Counseling Services**

The Counseling Department at Mesa Community College provides a variety of counseling services to assist students in addressing their personal, academic, career development, prevention, and intervention challenges. Confidential services are offered free of charge to students. Counseling faculty support and empower students in the process of setting and attaining their academic, career, and personal goals. To schedule an appointment to meet with a counselor call:

MCC S&D (480) 461-7588

MCC Red Mountain (480) 654-7720

Visit [www.mesacc.edu/departments/counseling\\_for\\_more\\_information](http://www.mesacc.edu/departments/counseling_for_more_information)

## **Recommendations for Academic Success**

Students do not fail at the end of the semester. If a student is failing in the last week, it is because of what he or she has done throughout the semester. Keep up with the work. Keep track of your points and percentage in the class. Keep track of assignment due dates on the course calendar. Remember, you cannot complete all the assignments in the last few days of the semester.

# CHM 151 LL Laboratory Schedule

Fall 2022, Tuesday - Thursday labs

[https://docs.google.com/document/d/1YwgCLTi9tVeueRTgp2u3b0rT4dNg\\_QD5T-WVGDHFC-A/edit](https://docs.google.com/document/d/1YwgCLTi9tVeueRTgp2u3b0rT4dNg_QD5T-WVGDHFC-A/edit)

| Dates                    | Lab Activities  | Textbook                  |
|--------------------------|---|---------------------------|
| August 23 - 25           | <a href="#">Safety</a><br>QUIZ: Lab Safety<br><a href="#">Elements, Ions &amp; Periodic Table</a>   | 2.3, 2.5                  |
| August 30 - September 1  | QUIZ: Element Names & Symbols; Selected Ion Names, Formulas & Charges (monatomic & polyatomic ions);<br><a href="#">Chemical Nomenclature</a>                           | 2.4, 2.6, 2.7             |
| September 6 - 8          | <a href="#">Chemical Equation Balancing</a> , and<br><a href="#">Classification of Chemical Reactions I—Double Replacement</a>  | 4.1, 4.2                  |
| September 13 - 15        | <b>MAJOR QUIZ 1: Nomenclature</b><br><a href="#">Identification of Ionic Solutions</a>  |                           |
| September 20 - 22        | <a href="#">Classification of Chemical Reactions II—REDOX Reactions</a> , and<br><a href="#">Empirical Formula of a Copper Chloride</a>                                 | 3.1, 3.2                  |
| September 27 - 29        | <a href="#">Synthesis of Alum from Aluminum</a>   |                           |
| October 4 - 6            | <a href="#">Preparation &amp; Standardization of a Base Solution</a>  | 3.3, 4.3, 4.5             |
| October 11 - 13          | <b>MAJOR QUIZ 2: Equation balancing, reaction types, product prediction, determination of oxidation numbers</b><br><a href="#">Determination of % KHP in a Mixture.</a> |                           |
| October 18 - 20          | <a href="#">Thermochemistry, parts I, II, and III.</a>  | 5.1, 5.2, 5.3             |
| October 25 - 27          | <a href="#">Atomic Spectra &amp; Electron Energy Levels</a> ,<br><b>MAJOR QUIZ 3: Stoichiometry</b>   | 6.1, 6.2, 6.4             |
| November 1 - 3           | <a href="#">Lewis Structure &amp; Molecular Shape</a>   | 7.2, 7.3, 7.4             |
| November 8 - 10          | Lewis Structure & Molecular Shape, cont.<br><a href="#">Heat of Fusion for Ice.</a>   |                           |
| November 15 - 17         | <a href="#">Molar Mass of a Gas.</a>  | 7.6, 8.2, 8.3<br>9.1, 9.2 |
| November 22 - 24         | No lab. Thanksgiving week.  |                           |
| November 29 - December 1 | <a href="#">Temperature Dependence of Salt Solubility</a> , and<br><a href="#">Molar Mass Determination by Freezing-Point Depression</a>                                | 11.3, 11.4                |
| December 6 - 8           | <b>Final Exam</b>   |                           |

- Your instructor will provide you with a link in Canvas to the class materials stored on Google Drive. Please download and save all electronic lab files at the beginning of the semester so that you can still print out the instructions if you can't connect to Google.
- Supplemental reading assignments come from your lecture textbook, Flowers, *et. al*, **Chemistry 2E**.,. Read these sections before lab time.
- Grading policies, due dates, and general class policies will be discussed by your lab instructor.

## Additional Resources

- [Safety Advisories](#)
- [Greek Numerical Prefixes](#)
- [Writing Abstracts of Laboratory Investigations](#)
- [Periodic Table](#)

## Reading Instruments to the Proper Precision



When using a balance, every digit should always be recorded.



The above picture is of a burette. Note, the scale runs downward, so the reading on the left is between 6 and 7. Since the smallest increments are to the 0.1 place, the measurements should be 'guesstimated' to one more place. The above left reading should be about 6.50 or 6.55 mL. The above right reading should again be to the 0.01 place (one more than the smallest divisions) or 26.30 mL.

If the above readings were taken in an actual experiment the amount delivered calculated to the proper number of significant figures would be:  $26.30 - 6.50 = 19.80$  mL (Note that the last zero must be written and is considered to be one of the significant figures.)

## How Do You Write Your Decimal Numbers?

AZ-Republic 3/9/99

**VALLEY &**

### Tempe couple allege in lawsuit that hospital's mistake killed baby

**PHOENIX** — A Tempe couple have filed a lawsuit against Phoenix Children's Hospital after their child died after allegedly receiving 10 times the prescribed amount of a blood thinner.

Five-day-old Alyssa Berg died in April 1998 in the hospital's neonatal unit. Her physician had prescribed .5 Heparin per unit, but the pharmacy read it as 5 ccs per unit, according to Paul Sacco, attorney for Staffan and Jane Berg.

The staff didn't notice the mistake and Alyssa died of intercranial bleeding, Sacco said.

Hospital officials said they had not seen the lawsuit and did not have any comment on it.

The children's hospital is on two

floors at Good Samaritan Regional Medical Center in central Phoenix. It shares pharmaceutical, house-keeping and dietary services with Good Samaritan.

Phoenix Children's has its own pharmacy during the day, but after 5 p.m. all orders for drugs go to the Good Samaritan pharmacy, said Ariana Martinez, Good Samaritan spokeswoman.

Martinez said they did not know if the error happened at Good Sam's pharmacy or Phoenix Children's. Good Samaritan had no additional comment, she said.

Good Samaritan was not named in the lawsuit.

(.5 or 0.5)  
?

4-20-01

■ WASHINGTON

### Morphine multiplied by 10 fatal to infant

A 9-month-old girl died last week after a misplaced decimal point caused a Children's Hospital nurse to administer a massive overdose of morphine.

Children's Hospital officials said that, instead of two 0.5-milligram doses of morphine, a narcotic prescribed to control postoperative pain, the child was given two doses of 5 milligrams each — 10 times more than the surgeon intended. Officials said the girl did not exhibit a reaction until hours later.





## CHEMISTRY INFORMATION

*Please complete and return at the time of the next class meeting.*

Semester: Fall Year: 2022 Course: CHM151LL Section: \_\_\_\_\_

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

e-mail: \_\_\_\_\_

Major **and** CAREER Goal\*: \_\_\_\_\_

Number of Hours You Are Working per Week (Please consider family responsibilities and volunteer hours when considering your course load below): \_\_\_\_\_

Number of Credit Hours You are Taking: \_\_\_\_\_

|   |                          |  |
|---|--------------------------|--|
| Previous <b><u>Chemistry</u></b> Courses Taken: | <b><u>Date Taken</u></b> | <b><u>Name and/or Location of School</u></b> |
|---|--------------------------|--|

|                              |       |       |
|------------------------------|-------|-------|
| High School Course(s): _____ | _____ | _____ |
|------------------------------|-------|-------|

College **Chemistry** Course(s) : \_\_\_\_\_

Highest Level Math you have completed: \_\_\_\_\_

**Math Currently being taken:** \_\_\_\_\_

Future Chemistry courses that you are planning to take at MCC:

\_\_\_\_\_

**Write a brief statement detailing the combination of work ethic, ability, time commitment, and grades that are required to succeed in the major and career goal that you listed above.**

I have received the syllabus and am responsible for its content \_\_\_\_\_ (signature)