



INSTRUCTOR: Dr. Paul Gilletti EMAIL: gilletti@mesacc.edu or paudy84101@mesacc.edu
 OFFICE: Building 15 PS-209 PHONE: Office 480.461-7685
 Web Page: <https://gillettichemistry.com> (Many of my Powerpoint presentations and old quizzes and exams are available as well as a lab page link.)

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

This syllabus is subject to change as needed.

Office Hrs PS-209: Monday 3:00-3:50, Tuesday 10:40-11:30, Wednesday 2:30-3:20, Thursday 2:30-3:20, Friday 10:15-11:05. To make an appointment, email me through canvas at 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://gillettichemistry.com>

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 10 or 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* 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.

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.

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.

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 (**by appointment**) and online (drop-in) tutoring beginning Monday, August 23. You can access all information regarding our services and schedules at our website, www.mesacc.edu/students/tutoring.

Online Tutoring

For students who are unable to use our on-campus services, our [Virtual Tutoring Center](#) **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://tutortracelec.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.

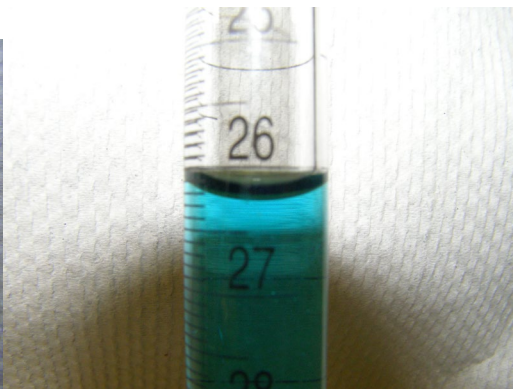
Virtual Online Tutoring is available

<https://www.mesacc.edu/students/tutoring/tutoring-online> Please take advantage of it as needed

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.

