INSTRUCTOR: Dr. Paul Gilletti  
EMAIL: gilletti@mesacc.edu  
OFFICE: Building 15 PS-209  
PHONE: Office 480.461-7685  
Web Page: http://www.mc.maricopa.edu/~pandy84101/  
(Many of my Powerpoint presentations and old quizzes and exams are available)  

Office Hrs PS-209: M 11:00-11.50, T 11:00-11:50, W 3:00-3:50,  
R 9:00-9:50,  F 11:00-11:50 and by appointment  

Tutoring Center (PS-100): Tuesday 1:30-2:30

All labs are on-line in pdf format. The WEB address, username and password on listed on the bottom of the schedule. 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.

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.

<table>
<thead>
<tr>
<th>Late 1 day</th>
<th>Late 2 days</th>
<th>Late 3 days</th>
<th>Late 4 days</th>
<th>Late 5 days</th>
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</thead>
<tbody>
<tr>
<td>-2.5 points (10%)</td>
<td>-5 points</td>
<td>-10 points</td>
<td>-20 points</td>
<td>KEEP IT!</td>
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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). Three 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.

Example: 0.1503 cm PFG 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.)
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.*****

ACADEMIC DISHONESTY POLICY: See the current MCCD student handbook on the academic dishonesty policy. Academic dishonesty may include: representation of the work of others 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***.

Important Change in Student Refund Policy: Students will be charged tuition and fees when dropped from classes after the 100% refund period (whether through the purge process for non-payment or instructor removal for failure to attend).

STUDENTS WITH DISABILITIES: Contact Disability and Resource Services at 480.461.7447 and see me to discuss your accommodations needs.

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.
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?

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 0.5 Heparin per unit, but the pharmacy read it as 5 ces per unit, according to Paul Sacco, attorney for Staffan and Jane Berg.

The staff didn’t notice the mistake and Alyssa died of intracranial 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, housekeeping and dietary services with Good Samaritan.

Phoenix Children’s mans 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.

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.