Millersville University
CHEMISTRY 231 Lab
Spring Semester 2018

Laboratory: Thursday – 1:10 – 4:00 pm, Caputo Hall 331
Instructor: Prof. Jack W. Sipe, Caputo Hall 220

Office Hours: Tuesday, 8:30 – 9:30 am & 12:30 – 1:30 pm; Thursday, 10:00 am - noon

Contact Information: e-mail: jacksipechem@gmail.com or Jack.Sipe@millersville.edu
Phone: 717- 497-3246 – urgent calls only – leave a message

Course Grading:

Lab Reports (12 x 7 points each + 6) 150 points
Spectroscopy Problem Set 1 30 points
Spectroscopy Problem Set 2 30 points
Open Notebook Lab Exam 30 points
Total 240 points

Required Materials:

1) Weekly Laboratory Assignments: Handouts provided in lecture and posted on our Chemistry 231 D2L Course Website one week prior to each lab.
2) Molecular Model Kit for Organic Chemistry. You will need this to complete at least two of the labs. Most molecular model kits for organic chemistry will suffice. I recommend the following option (1013Alpha Organic Chemistry Set for Student, which can be found online... http://bit.ly/2DypD4m
3) A scientific calculator capable of exponential notation, square roots, and logarithmic functions
5) Safety Goggles or Glasses - Over-The-Glass (OTG) means over prescription glasses. Examples from Google searches for safety glasses and goggles or OTG safety glasses:
6) One combination lock to share with your lab partner.

Preparing for Lab

Each week that a new laboratory experiment is begun, pre-lab preparation in the lab notebook must be completed. Duplicate pages from the lab notebook will be collected and graded for pre-lab points (usually 4) at the beginning of the lab period.

Students are expected to read the entire laboratory procedure thoroughly and laboratory notebooks must be prepared prior to coming to lab. When you arrive in lab, your notebook should include: Lab Title, Purpose (one sentence), and an outline of the Procedure. Students should be familiar enough with the procedure that they are aware of all data to be collected. A blank data table with units should be prepared as well as an area for observations. Record all information in the notebook IN INK; never use pencil, erasable ink, or white-out. Neatly draw a line through mistaken entries; do not obliterate
them. A notebook is more like a diary than like a report book. Remember to be clear, concise and complete.

Post labs must be completed for each experiment. At times, this may be several weeks after the lab has been completed due to time need to allow crystals to dry, perform melting points, NMR and IR spectra on products. The lab instructor will announce one week in advance of when each post lab report is due.

Laboratory Conduct

Safety is paramount in the laboratory and goggles must be worn at all times. All standard laboratory safety procedures must be followed as well as procedures specific to a particular activity. A copy of lab safety rules are found in the introduction of the laboratory manual. A copy of these rules must be signed by the student and returned to the lab instructor at the beginning of the first lab. Please read them thoroughly. The instructor reserves the right to deduct points from a student’s should that student be found working in a manner unsafe to him/herself and/or other.

Other Information

All other policies regarding attendance, plagiarism, course content and expectations will be followed as per Dr. Kennedy’s course syllabus.