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Laboratory Manual & Schedule

www.nmt.edu/~jaltig/Laboratory.html

A good book for tips on maintaining lab notes is:
“Writing the Laboratory Notebook”; Howard M. Kane; American Chemical
Society; 1985.

Grading

10% Pre-Lab Quiz
   At the beginning of each lab, a short quiz covering the procedural details for the experiment
   will be given. Please do not be late for lab. You will not be given extra time to complete
   the quiz if you arrive late

10% Pre-Lab Exercises
   Due at the Beginning of the Laboratory. You will not be allowed start the laboratory until
   you have completed this assignment. Further, this assignment will be a record of your lab
   attendance. Each problem must be worked out fully, with all steps needed to complete
   the problem shown. (Turn-in as a separate assignment.)

60% Laboratory Notebook
   Details are provided in a separate handout. These will be collected and graded within one
   week of completion of the laboratory work for each lab exercise. You lab notes must be
   initialed by your TA before you leave the lab.

5% Post Lab Conclusions
   Details are provided in a separate handout. These will be included in your lab notebook.

10% Final Quiz
   Maybe administered in an oral or written format. Will cover details of the techniques and
   syntheses discussed during the semester.

5% Lab Safety, Proper Disposal of Chemicals and Tidiness
   All safety rules (separate handout) must be followed, all chemicals must be disposed of
   properly, and your laboratory workstation must be kept tidy and left clean. At the end
   of each laboratory session, your laboratory instructor will issue a grade according to
   how well you are following the appropriate guidelines in this regard.

Notes:
1) Missing more than two laboratory exercises will result in a failing grade for the
   course.
2) The “late papers” policy will be set by your laboratory teaching assistant. However,
   no work will be accepted more than two weeks after the due date. And, no work will
   be accepted after the last laboratory session of the semester.
Topics to be Covered

Distillation
  Fractional and Steam

Chromatography
  TLC, GC, and Column

Extraction

Sublimation, Recrystallization & Melting Points

UV Spectroscopy

Synthesis
  Derivatization
  Suzuki Coupling Rxns
  Stereochemical Rxns
  Grignard Rxn.