

CHEMISTRY 252.06

Spring 2009

Instructor: Jim Patterson

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Office hours W 11-12 am, Th 2-3 pm and by appointment

Lab Time: Monday & Wednesday, 2-5 pm in AS 1515 (lab)

Lecture Time: Tuesday 2-2:50 pm in ED 2841

Required Text: "Introduction of Organic Laboratory Technique, A Microscale approach", Pavia, Lampman, Kriz & Engle 4th ed. (PLKE) **Prerequisite:** CHE 238

Graded material: Exams-2 at 80 pts each
Laboratory reports- 9 labs varying from 20 pts-35 pts
Notebook 20 pts. Graded in the middle and at the end of quarter.
Instructor Evaluation 30 pts. Entails preparedness, lab clean up, lab safety.

Exam schedule: Exam #1 Wednesday, May 13
Exam #2, Monday, June 8

All Exams will take place in AS 1614B and will begin at 2:00.

Grade calculations – To approximate your grade during the quarter assume: Lab reports, notebook and TA instructor evaluation; 90% ~ 3.0. Exams 70-75% ~ 3.0.

LABORATORY REPORTS. For all experiments there will a 'report guide' posted on the website. For most labs you will write a formal report (see website for a description). Other experiments you will simply report the results of your experiments & answer questions. The report (both types) will be due 1 week from completion of the experiment.

PRELABS: Before the experiment begins a prelab must be written in your lab notebook and a photocopy of the prelab must be turned in at the beginning of lab.. A prelab will consist of 5 components: 1) The Purpose of the experiment (see formal report description on website). 2) A brief summary of the lab procedure. 3) A sketch of any new glassware that you will be using in the experiment. 4) Waste disposal protocol 5) Prelab questions that may be assigned. The questions will be given during the lab lecture and need to be answered before the lab begins. 6) For preparatory labs (Dye lab, methyl cyclohexane (PLKE 28), Grignard (PLKE 38), Ferrocene, and Ester (PLKE 56)) a reaction equation with a reaction table is required.

LAB NOTEBOOKS: Purchase a lab notebook at the bookstore (you may also use your chem. 251 notebook). When performing an experiment, write down the procedure as you do it and note all observations. During all times in the lab, you must have your lab notebook open and you must record data/observations in real time, i.e. as you see it. A good lab notebook is one that would allow another person to replicate the experiment using only your notebook. Please read the section on 'Lab Notebooks' (Technique 2 pg 558) in your Text.

Miscellaneous:

You cannot miss an exam or make up a lab. If you have extenuating circumstances that prevent you from taking an exam at the assign time, please let me know as soon as possible of your situation.

Lab schedule Note: All experiments (Exp) are from the lab text book (PLKE) 'Handouts' will be posted on the website.

Monday	Wednesday
April 6 Check in	April 8 Dye synthesis (handout)
April 13 Exp 21A, 21B Competing Nucleophiles	April 15 Exp 21C
April 20 Exp 25A Methyl cyclohexane	April 22 Complete Exp 25A
April 27 Ferrocene and Column Chromatography (handout)	April 29 Complete Ferrocene
May 4 Exp 38B Benzoic Acid via Grignard reaction	May 6 Complete Exp 38B
May 11 Ester synthesis PLKE 56	May 13 Ester continued Exam #1
May 18 Start Unknown analysis (handout)	May 20 Finish unknown analysis
May 25 No lab-Memorial day	May 27 Exp 64 Michael and Aldol reactions
June 1 Exp 64 continued	May 28 Exp 64 continued
June 8 Paint lab (handout)	June 10 Exam #2
June 15 checkout	