

TOPIC LIST

CH 201 Organic Laboratory Practicum

At the end of the term, you will be asked to demonstrate proficiency on the following topics:

1. melting point – determination and identification of unknown(s)
2. recrystallization – solvent selection
3. proper identification of ALL microscale equipment
4. proper assembly of select equipment
5. spectral data – perform and interpret an IR analysis
6. gas chromatography – perform and interpret a GC analysis
7. TLC – perform and calculate the R_f of unknown(s)
8. extraction – develop and description of an extraction sequence for a mixture of compounds given their structures and a list of solvents and reagents
9. calculations – limiting reactant, percent recovery, theoretical yield
10. must have 2 clean IR plates
11. structure determination – using IR/NMR spectra
12. writing efficiency using the correct subject-verb agreement, grammar, spelling, and tense