

After completing CHEM 238, students will be able to:

- Perform multi-step syntheses.
- Carry out Grignard reactions, aldol condensations, nucleophilic aromatic substitution reactions, ester saponification reactions.
- Identify functional groups on infrared spectra.
- Perform preliminary identification tests to several organic unknowns, carry out classification tests, prepare, purify and determine physical and infrared spectra of derivatives, analyze combined data to identify unknowns.