

After completing CHEM 237, students will be able to:

- Identify hazardous organic materials and appropriate safe handling and disposal.
- Write scientific experimental reports on a laboratory notebook.
- Handle common microscale organic chemistry laboratory equipment,
- Determine physical properties such as boiling point, melting point, density, refractive index.
- Separate mixtures by solvent extraction and simple or fractional distillation.
- Purify samples by crystallization and sublimation techniques.
- Analyze mixtures by column chromatography and thin layer chromatography.
- Interpret infrared and nuclear magnetic resonance spectra.
- Perform single step synthesis.