

# Course Overview



## Course Information

**Code:** PCH-202

**Title:** Pharmaceutical Analytical Chemistry

**Cr hr:** 2+1

**Level:** 4

**Program:** PharmD

**Co-requisites:** None

**Prerequisites:** PCH-201

## Course Description

The course provides the general ideas of analytical techniques and their applications in the field of pharmaceutical sciences – including volumetric methods of analysis (acid-base titrations, redox titrations, precipitation titrations, and complexometric titrations). The course will focus on Chromatography (TLC, LC, HPLC, and GC) and spectroscopy including UV-Vis spectrometry, infrared spectrometry, nuclear magnetic resonance spectroscopy and mass spectrometry.

## Topics

- Introduction to pharmaceutical analytical chemistry
- Analytical titrations
- Chromatography
- Gas chromatography
- High performance liquid chromatography
- Uv-visible spectroscopy
- Spectrofluorometry
- Infra-red spectroscopy
- Mass spectrometry
- Nuclear magnetic spectroscopy