

# **GEOL 364 Igneous and Metamorphic Petrology**

Instructor: Judith Hannah

## Course Description:

- Description, identification, classification, geochemistry, and petrogenesis of igneous and metamorphic rocks; textural interpretation of hand samples and thin sections.

## Learning Outcomes:

- Understand the physical and chemical processes that produce the full range of igneous and metamorphic rock types
- Know the distribution of various rock types in the earth's crust and mantle
- Understand the tectonic processes that control the distribution of rock types
- Learn to describe, identify, and classify igneous and metamorphic rocks in both hand sample and thin section
- Know how to interpret the textures of igneous and metamorphic rocks and relate those textures to petrogenetic processes.