

Abigail Knapp will present the basics of igneous petrology with a focus on major igneous rocks types and the minerals which to define them. We will begin with the basic tectonic settings and processes of igneous rock formation as a foundation, after which we will link the lava types with the minerals which cool from them. We will go over the fundamental chemistry of growth rates, fractionation, and the Bowen's Reaction Series.

In addition to theory, we will review how to identify and classify igneous rocks in hand sample and thin section using their mineralogy and textures we will also review the use of phase diagrams and other useful tools for igneous petrology and geochemistry