1. Objectives and content of the course

During this advanced course of Volcanology we will show how petrology can be applied to unravel the processes of magma transfer, accumulation and evolution in the Earth’s crust and how these processes affect the eruptive dynamics of volcanoes. Petrology will be combined with the quantitative study of pyroclastic deposits to demonstrate how the chemical and physical characterization of volcanic products can be used to characterize the processes leading to the variety of volcanic eruptions we observe on our planet. We will apply theoretical concepts of petrology and physical volcanology performing exercises to uncover the sequence of events leading to some of the best studied eruptions.

Estimation for the costs of the fieldtrip: travel expense to Catania (around 300 CHF) + food and lodging (300 Euros)

2. Pre-requisite: