

# COURSE DETAIL

## IGNEOUS AND METAMORPHIC PETROLOGY

**Country**

United Kingdom - England

**Host Institution**

University College London

**Program(s)**

University College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Earth & Space Sciences

**UCEAP Course Number**

105

**UCEAP Course Suffix****UCEAP Official Title**

IGNEOUS AND METAMORPHIC PETROLOGY

**UCEAP Transcript Title**

IGNEOUS& META PETRO

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course provides students with a thorough understanding of the nature and origin of igneous and metamorphic rocks, from their formation and distribution to their geological expressions and associations with particular plate tectonic settings. The course also builds on fundamental concepts of geochemistry and mineralogy to explain phase behavior in high temperature systems using quantitative phase diagrams and approaches. Integral practical classes use both hand specimens and optical mineralogy to understand diagnostic textures - which are used to identify and classify igneous and metamorphic rocks. The course provides an introduction to modern research practice in the fields of igneous and metamorphic petrology.

### Language(s) of Instruction

English

### Host Institution Course Number

GEOL0011

### Host Institution Course Title

IGNEOUS AND METAMORPHIC PETROLOGY

### Host Institution Course Details

<https://www.ucl.ac.uk/module-catalogue/modules/igneous-and-metamorphic-petrolog...>

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Earth Sciences

### Course Last Reviewed

2024-2025

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