COURSE DETAIL

BASIS OF INORGANIC CHEMISTRY

Country

Ireland

Host Institution University College Dublin

Program(s) University College Dublin

UCEAP Course Level Upper Division

UCEAP Subject Area(s) Chemistry

UCEAP Course Number 107

UCEAP Course Suffix

UCEAP Official Title BASIS OF INORGANIC CHEMISTRY

UCEAP Transcript Title INORGANIC CHEMISTRY

UCEAP Quarter Units 4.00

UCEAP Semester Units 2.70

Course Description

In this course, students gain a basic knowledge of inorganic chemistry. This includes a discussion of different types of molecular and solid state bonding, geometrical and steric considerations, and an introduction to the distribution of electron density and oxidation states. The solid state part of this course describes the structures of A, AB, AB2, and AB3 compounds and metallic, ionic, and covalent bonding in solid materials. In addition, X-ray diffraction as the key method of investigating the solid state experimentally is introduced. Trends across the periodic table are highlighted, and examples cited to illustrate the relevance of these concepts to applied fields, such as solar cells, batteries, and self-assembly.

Language(s) of Instruction English

Host Institution Course Number CHEM20100

Host Institution Course Title BASIS OF INORGANIC CHEMISTRY

Host Institution Campus
UC Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department Chemistry

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