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 Course Details

Host Institution Campus
UC Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Chemistry

Course Last Reviewed

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