

COURSE DETAIL

INORGANIC CHEMISTRY 1 & 2

Country

France

Host Institution

University of Bordeaux

Program(s)

University of Bordeaux

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Chemistry

UCEAP Course Number

105

UCEAP Course Suffix**UCEAP Official Title**

INORGANIC CHEMISTRY 1 & 2

UCEAP Transcript Title

INORGANIC CHEM

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course focuses on the basic principles in understanding the structural arrangement of atoms and ions to build crystalline host lattices. Metallic, ionic, and covalent matrices are described through this study. In the second part of the course, the effects of the periodic order of atoms in a solid are highlighted by the matter-X-Ray interaction through the description of the diffraction phenomenon. The course then studies the ideal crystallized solid including: crystallographic planes and directions, solid solutions, notions of X-ray diffraction, and Vegard's law. Furthermore, heterogeneous equilibria are covered along with equilibrium factors, variance, binary systems and the solid-liquid equilibrium with total or partial miscibility of constituents and several invariant equilibria.

Language(s) of Instruction

Host Institution Course Number

4TPM214U

Host Institution Course Title

CHIMIE INORGANIQUE 1 ET 2

Host Institution Campus

UNIVERSITÉ DE BORDEAUX: Collège des Sciences et Techniques

Host Institution Faculty

Host Institution Degree

Host Institution Department

Chimie

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