

COURSE DETAIL

INORGANIC CHEMISTRY

Country

United Kingdom - England

Host Institution

University of Manchester

Program(s)

English Universities, University of Manchester

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Chemistry

UCEAP Course Number

121

UCEAP Course Suffix**UCEAP Official Title**

INORGANIC CHEMISTRY

UCEAP Transcript Title

INORGANIC CHEM

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course explores the origin of the periodic trends in the s and p-block and apply knowledge of these trends to solve chemical problems. Students learn about the various bonding models and concepts relevant to main group compounds including hard-soft acid base theory, Lewis acids/bases, solution speciation, valency vs. oxidation state, delocalized bonding, Wade's rules, inorganic aromaticity, and weakly coordinating anions. Additional topics include the key electron counting methods, reaction types and bonding models of d-block organometallic compounds, synthetic routes, and bonding and general reactivity pathways of d-block compounds containing M-C bonds.

Language(s) of Instruction

English

Host Institution Course Number

CHEM20312

Host Institution Course Title

INORGANIC CHEMISTRY

Host Institution Campus

University of Manchester

Host Institution Faculty

Host Institution Degree

Host Institution Department

Chemistry

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