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 Course Details

Host Institution Campus
University of Manchester

Host Institution Faculty

Host Institution Degree

Host Institution Department
Chemistry

Course Last Reviewed

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