COURSE DETAIL

REACTIVITY AND MECHANISM
Country Australia
Host Institution University of Melbourne
Program(s) University of Melbourne
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Chemistry
UCEAP Course Number 116
UCEAP Course Suffix
UCEAP Official Title REACTIVITY AND MECHANISM
UCEAP Transcript Title REACTIVITY & MECH
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course examines chemical reactions involving various types of reactive intermediates. The application of molecular orbital theory will be used to understand the nature of pericyclic reactions and the concept of coordination in main group (including carbon) and transition metal elements. An investigation of inorganic reaction mechanisms will focus on transformations involving coordination and organometallic complexes of d-block metals. Discussion of synthetic aspects will cover methods for carbon-carbon bond formation and functional group transformations, as well as principles of catalysis involving transition metal complexes and their chemistry in synthetic and biological systems.

Language(s) of Instruction
English

Host Institution Course Number
CHEM30016

Host Institution Course Title
REACTIVITY AND MECHANISM

Host Institution Course Details
https://handbook.unimelb.edu.au/2020/subjects/chem30016

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2022-2023

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