

# 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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