

2020/1 - CHE-5301B INORGANIC CHEMISTRY

Spring Semester, Level 5 module

(Maximum 100 Students)

UCU: 20

Organiser: Dr John Fielden

(UG) MODULE - 40% PASS ON AGGREGATE

Module Type: Examination with Coursework or Project

Timetable Slot: B1*D1/*D3/,F2-A2\,U

Exam Paper(hrs):2

Exam Period: SPR-02

BEFORE TAKING THIS MODULE YOU MUST TAKE CHE-4301Y AND TAKE CHE-4001Y OR TAKE CHE-4602Y

In this module, you'll study the structure, bonding and reactivity patterns of inorganic compounds. The module is a prerequisite for the 3rd level inorganic course, Inorganic Compounds: Structure and Functions. You'll cover the electronic structure, spectroscopic and magnetic properties of transition metal complexes (ligand field theory), the chemistry of main group clusters, polymers and oligomers, the structures and re-activities of main group and transition metal organometallics, and the application of spectroscopic methods (primarily NMR, MS and IR) to inorganic compounds. You'll have laboratory classes linked to the lecture topics and so you will need to have completed either of the level 4 practical modules, Chemistry Laboratory (A) or Research Skills in Biochemistry.