

School of Chemistry

Aims and Objectives: Session 2023-2024, Full Year

Module CH5461: Integrating Chemistry

Course Title: Inorganic Chemistry Problem Solving

Duration: 5 hours

Lecturers: *Members of Inorganic Teaching Staff*

Convenor: Dr A. S. Gibbs

Aims: This module is designed to help MChem students gain experience in problem solving. Many aspects of the theoretical and practical knowledge gained in previous modules will be brought together. The subject material is planned to cover the whole breadth of inorganic chemistry.

Objectives:

To give students practice in answering more involved problems of a general inorganic nature. To encourage students to use the material already learnt in other modules to think their way systematically through problems where the answer might not be immediately obvious. To give students practice at presenting answers orally to the class and to work through selected assessed homework problems as well as contributing to 'round table' discussions of problem related topics in the tutorials.

The survey of inorganic topics will be widespread with problems chosen from main group chemistry, coordination chemistry, transition metals, organometallic chemistry, solid state inorganic and crystal chemistry, redox processes and reaction mechanisms.