

University of Pretoria Yearbook 2019

General chemistry 172 (CHM 172)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	16.00
Programmes	BEng Electrical Engineering Engage BEng Electronic Engineering Engage BEng Industrial Engineering BEng Mechanical Engineering BEng Mechanical Engineering Engage BEng Metallurgical Engineering Engage BEng Mining Engineering Engage
Service modules	Faculty of Engineering, Built Environment and Information Technology
Prerequisites	No prerequisites.
Contact time	1 practical per week, 4 lectures per week, 1 web-based period per week, 1 discussion class per week
Language of tuition	Module is presented in English
Department	Chemistry
Period of presentation	Semester 2

Module content

General introduction to inorganic, analytical and physical chemistry. Nomenclature of inorganic ions and compounds, stoichiometric calculations concerning chemical reactions, redox reactions, solubilities and solutions, atomic structure, periodicity. Molecular structure and chemical bonding using the VSEPR model. Principles of reactivity, electrochemistry, energy and chemical reactions, entropy and free energy. Appropriate tutorial classes and practicals.

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