



University of Pretoria Yearbook 2017

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, 1 web-based period per week, 4 lectures per week, 1 discussion class per week

Language of tuition Separate classes for Afrikaans and English

Academic organisation 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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