

University of Pretoria Yearbook 2016

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 Both Afr and Eng

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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