



University of Pretoria Yearbook 2025

General chemistry 117 (CMY 117)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 16.00

NQF Level 05

Programmes BEd (Senior Phase and Further Education and Training Teaching)

BSc Computer Science

Bachelor of Dietetics [BDietetics]

BSc (Food Management) Culinary Science

BSc (Food Management) Nutrition

BSc (Geography) Geography and Environmental Science

BSc Applied Mathematics

BSc Biochemistry

BSc Biotechnology

BSc Chemistry

BSc Ecology

BSc Entomology

BSc Environmental and Engineering Geology

BSc Food Science

BSc Genetics

BSc Geology

BSc Human Genetics

BSc Human Physiology

BSc Human Physiology, Genetics and Psychology

BSc Mathematics

BSc Medical Sciences

BSc Meteorology

BSc Microbiology

BSc Physics



BSc Plant Science

BSc specialising in Chemistry 4-year programme

BSc specialising in Ecology 4-year programme

BSc specialising in Geology 4-year programme

BSc specialising in Human Physiology 4-year programme

BSc specialising in Mathematics 4-year programme

BSc specialising in Meteorology 4-year programme

BSc specialising in Physics 4-year programme

BSc Zoology

BScAgric Agricultural Economics and Agribusiness Management

BScAgric Animal Science

BScAgric Applied Plant and Soil Sciences

BScAgric Plant Pathology

BScAgric specialising in Applied Plant and Soil Sciences 5-year programme

BScAgric specialising in Plant Pathology 5-year programme

Service modules

Faculty of Engineering, Built Environment and Information Technology

Faculty of Education

Faculty of Health Sciences

Faculty of Veterinary Science

Prerequisites

A candidate must have Mathematics for at least 60% and 60% for Physical Sciences.

Contact time

1 practical per week, 4 lectures per week

Language of tuition

Module is presented in English

Department

Chemistry

Period of presentation

Semester 1

Module content

General introduction to inorganic, analytical and physical chemistry. Atomic structure and periodicity. Molecular structure and chemical bonding using the VSEPR-model. Nomenclature of inorganic ions and compounds. Classification of reactions: precipitation, acid-base, redox reactions and gas-forming reactions. Mole concept and stoichiometric calculations concerning chemical formulas and chemical reactions. Principles of reactivity: energy and chemical reactions. Physical behaviour gases, liquids, solids and solutions and the role of intermolecular forces. Rate of reactions: Introduction to chemical kinetics.



The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations. The G Regulations are updated annually and may be amended after the publication of this information.

Regulations, degree requirements and information

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this information.

University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQSF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.