

# University of Pretoria Yearbook 2021

## General chemistry 127 (CMY 127)

**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

BDietetics

BSc Applied Mathematics

BSc Biochemistry

BSc Biological Sciences

BSc Biotechnology

BSc Chemistry

BSc Culinary Science

BSc Ecology

BSc Engineering and Environmental Geology

BSc Entomology

BSc extended programme - Biological and Agricultural Sciences

BSc extended programme - Physical Sciences

BSc Food Science

BSc Genetics

BSc Geography and Environmental Science

BSc Geology

BSc Human Genetics

BSc Human Physiology

BSc Human Physiology, Genetics and Psychology

BSc Mathematics

BSc Medical Sciences

BSc Meteorology

BSc Microbiology

BSc Nutrition

BSc Physics

BSc Plant Science

BSc Zoology

BScAgric Animal Science

BScAgric Applied Plant and Soil Sciences

BScAgric Plant Pathology

**Service modules**

Faculty of Engineering, Built Environment and Information Technology

Faculty of Education

Faculty of Health Sciences

Faculty of Veterinary Science

**Prerequisites**

Natural and Agricultural Sciences students: CMY 117 GS or CMY 154 GS Health Sciences students: none

**Contact time**

1 practical per week, 4 lectures per week

**Language of tuition**

Module is presented in English

**Department**

Chemistry

**Period of presentation**

Semester 2

**Module content**

Theory: General physical-analytical chemistry: Chemical equilibrium, acids and bases, buffers, solubility equilibrium, entropy and free energy, electrochemistry. Organic chemistry: Structure (bonding), nomenclature, isomerism, introductory stereochemistry, introduction to chemical reactions and chemical properties of organic compounds and biological compounds, i.e. carbohydrates and aminoacids. Practical: Molecular structure (model building), synthesis and properties of simple organic compounds.

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