

University of Pretoria Yearbook 2016

Analytical chemistry B 707 (CMY 707)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	10.00
Programmes	BScHons Chemistry
Contact time	6 lectures per week for 4 weeks, 1 discussion class per week for 4 weeks
Language of tuition	English
Academic organisation	Chemistry
Period of presentation	Semester 1 or Semester 2

Module content

Selected aspects: Electrochemistry: fundamental theory, voltammetry, metal-ligand equilibria, modelling and measurement of solution composition. Statistics: precision and accuracy, random errors, hypothesis testing, method of least squares, curve fitting, multivariate statistics, interpreting patterns of data. Chemical metrology: propagation of errors, quality control of quantitative and qualitative analytical information, international standards, interlaboratory calibration.

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