

University of Pretoria Yearbook 2018

Analytical chemistry B 707 (CMY 707)

Qualification Postgraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 10.00

Programmes [BScHons Chemistry](#)

Prerequisites No prerequisites.

Contact time 1 discussion class per week for 4 weeks, 6 lectures per week for 4 weeks

Language of tuition Module is presented in English

Department 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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