

# University of Pretoria Yearbook 2020

## Analytical chemistry 383 (CMY 383)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	Faculty of Natural and Agricultural Sciences
<b>Module credits</b>	18.00
<b>Programmes</b>	BSc Computer Science BSc Applied Mathematics BSc Biochemistry BSc Chemistry BSc Geology BSc Human Physiology BSc Mathematics BSc Physics
<b>Service modules</b>	Faculty of Education
<b>Prerequisites</b>	CMY 282, CMY 283, CMY 284 and CMY 285
<b>Contact time</b>	1 discussion class per week, 2 practicals per week, 4 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Chemistry
<b>Period of presentation</b>	Quarter 1

### Module content

Separation methods: Extraction, multiple extraction, chromatographic systems. Spectroscopy: Construction of instruments, atomic absorption and atomic emission spectrometry, surface analysis techniques. Mass spectrometry. These techniques are discussed in terms of their use in environmental analysis and the value they contribute to meeting the UN sustainable development goals (#3,6 & 11). Instrumental electrochemistry. The relevance of electrochemistry to providing affordable and clean energy (UN SDG#7) is addressed.

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