



# University of Pretoria Yearbook 2021

## Chemistry 226 (CHM 226)

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| <b>Qualification</b>          | Undergraduate   |
| <b>Faculty</b>                | <a href="#">Faculty of Natural and Agricultural Sciences</a>                                  |
| <b>Module credits</b>         | 8.00  |
| <b>NQF Level</b>              | 06  |
| <b>Programmes</b>             | <a href="#">BEng Chemical Engineering</a><br><a href="#">BEng Chemical Engineering ENGAGE</a> |
| <b>Service modules</b>        | Faculty of Engineering, Built Environment and Information Technology                          |
| <b>Prerequisites</b>          | CHM 171 or CHM 172 and CHM 181  |
| <b>Contact time</b>           | 2 lectures per week, 6 ppw  |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Chemistry   |
| <b>Period of presentation</b> | Semester 2  |

### Module content

Theory: Introduction to instrumental chemical analysis. Integration of electronic, chemical, optical and computer principles for the construction of analytical instrumentation. Detail discussion of principles and some instrumental methods from three disciplines within analytical chemistry, namely electrochemistry, spectroscopy and chromatography. This includes potentiometry, (AA) atomic absorption-, (ICP) atomic emission-, ultraviolet (UV)-, and infrared (IR) spectroscopy, potentiometric and photometric titrations, gas chromatography, liquid chromatography as well as combinations of these techniques. Practical: IR spectroscopy, UV spectroscopy, AA spectroscopy, potentiometric titration, gas chromatography.

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