



---

# University of Pretoria Yearbook 2018

---

## Hydrometallurgy 412 (NHM 412)

|                               |   |
|-------------------------------|---|
| <b>Qualification</b>          | Undergraduate   |
| <b>Faculty</b>                | <a href="#">Faculty of Engineering, Built Environment and Information Technology</a>  |
| <b>Module content</b>         | Extraction routes and the extractive metallurgy of metals such as gold, copper, zinc, manganese, nickel, cobalt, uranium and the platinum group elements, from ores and secondary sources. Application of thermodynamics and reaction kinetics (including laboratory kinetic data) in understanding and optimisation of extraction routes, and sizing of reactors. Environmental impact of processing routes. |
| <b>Module credits</b>         | 16.00   |
| <b>Programmes</b>             | <a href="#">BEng Metallurgical Engineering</a><br><a href="#">BEng Metallurgical Engineering ENGAGE</a>   |
| <b>Prerequisites</b>          | (NHM 322)   |
| <b>Contact time</b>           | 2 tutorials per week, 3 lectures per week   |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Materials Science and Metallurgical Engineering   |
| <b>Period of presentation</b> | Semester 1  |

---

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of each student to familiarise himself or herself well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.