

University of Pretoria Yearbook 2021

Cloud dynamics 781 (WKD 781)

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| Qualification | Postgraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 12.00 |
| NQF Level | 08 |
| Programmes | BScHons Meteorology |
| Prerequisites | No prerequisites. |
| Contact time | 1 discussion class per week, 1 lecture per week |
| Language of tuition | Module is presented in English |
| Department | Geography Geoinformatics and Meteorology |
| Period of presentation | Semester 1 or Semester 2 |

Module content

Scaling and interpretation of equations of motion for mesoscale processes. The role of stability and other trigger actions on initial cloud formation and the evolution of clouds. Shallow and deep convective processes. Tropical and mid-latitude cloud generation processes and characteristics. Cloud splitting. Parameterisation of radiation and heat in atmospheric models. Microphysics parameterisations in numerical models.

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