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# University of Pretoria Yearbook 2016

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## Boundary layer meteorology 811 (AQM 811)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	15.00
<b>Programmes</b>	<a href="#">MSc Option: Air Quality Management (Coursework)</a> <a href="#">MSc Option: Environmental Management (Coursework)</a>
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	1 lecture per week
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Geography, Geoinf + Meteor
<b>Period of presentation</b>	Year

### Module content

Introduction to global circulation and South African weather and climate. Mathematical functions and atmospheric balance laws. Stability and mixing heights. The atmospheric boundary layer over urban and rural areas. Turbulence. Earth's energy budget. Transfer and exchange of energy. Introduction to atmospheric and chemical dispersion modelling. Practical modelling of air pollution: Box models, Gaussian puff or plume models, stochastic models, trajectory models.

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