

# University of Pretoria Yearbook 2019

## Earth studies 210 (AAL 210)

**Qualification** Undergraduate

**Faculty** [Faculty of Engineering, Built Environment and Information Technology](#)

**Module credits** 8.00

**Programmes** [BSc Architecture](#)

[BSc Interior Architecture](#)

[BSc Landscape Architecture](#)

**Prerequisites** No prerequisites.

**Contact time** 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Architecture

**Period of presentation** Semester 1

### Module content

Meso-environment:

Climate: atmospheric constituents and processes, weather systems, heat radiation and transfer, solar charts, sun movement and heat gain control.

Air: airflow patterns around structures, natural ventilation.

Water vapour: diffusivity, transfer and condensation.

Heat: thermal comfort and comfort indices, thermal performance of materials and structures, time lag, decrement and periodic heat transfer.

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