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# University of Pretoria Yearbook 2016

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## Earth studies 210 (AAL 210)

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| <b>Qualification</b>          | Undergraduate                                                                                                                                                                |
| <b>Faculty</b>                | <a href="#">Faculty of Engineering, Built Environment and Information Technology</a>                                                                                         |
| <b>Module credits</b>         | 8.00                                                                                                                                                                         |
| <b>Programmes</b>             | <a href="#">BSc (Interior Architecture) Interior Architecture</a><br><a href="#">BSc (Landscape Architecture) Landscape Architecture</a><br><a href="#">BSc Architecture</a> |
| <b>Prerequisites</b>          | No prerequisites.                                                                                                                                                            |
| <b>Contact time</b>           | 3 lectures per week                                                                                                                                                          |
| <b>Language of tuition</b>    | Both Afr and Eng                                                                                                                                                             |
| <b>Academic organisation</b>  | Architecture                                                                                                                                                                 |
| <b>Period of presentation</b> | 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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