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# University of Pretoria Yearbook 2020

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## Earth studies 224 (AAL 224)

**Qualification** Undergraduate

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

**Module credits** 4.00

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

**Prerequisites** No prerequisites.

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

**Department** Architecture

**Period of presentation** Quarter 4

### Module content

Environmental filters and forecasting techniques:

Sound: the physical nature of sound, physiology of hearing, sound and noise sources, transfer, absorption and isolation, noise control; measurement, levels, frequency analysis, A-loading, room acoustics, reverberation periods.

Light: properties of natural light, design criteria, daylight factors, diffusion, quality, energy requirements and saving.

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