

Applied Micrometeorology

School of Geography, Earth and Environmental Sciences

College of Life and Environmental Sciences

Details

Code 19136

Level of study Third/Final year

Credit value 20

Semester 2

Pre-requisite modules 03 **18180**
[\(\(undergraduate/studyabroad/modules/data/10/22/01/81/18180.aspx\)\)](http://undergraduate/studyabroad/modules/data/10/22/01/81/18180.aspx)

Hydroclimatology: climate and water

Module description

The module provides a theoretical understanding of micrometeorology and the exchanges of mass, momentum, and energy between land and atmosphere to underpin applied exploration of the research frontiers in surface energy balance climates, urban meteorology, assessment of green-house gas fluxes, and urban air quality.

This module will provide students with an understanding of: (1) the principles of meteorology at small scales (metres to kilometres), (2) the meteorological processes near the earth's surface (e.g., over a range of different surfaces/environments) associated with the exchange of heat, mass and momentum, and (3) transport and dispersion of pollutants in the atmospheric boundary layer.

Teaching and learning methods

Lectures and computer lab practicals.

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