

## Applied and Environmental Microbiology

School of Biosciences

College of Life and Environmental Sciences

### Details

**Code** 23331

**Level of study** Third/Final year

**Credit value** 20

**Semester** 1

### Module description

The module is designed to explore the basis for the behaviour of micro-organisms and their dependence and impact on human activities, reflecting the intimate and critical relationship between humans and microbes. The diversity of microbial lifestyles and communities will be explored, both in the biosphere at large and in relationships with host species including humans. Then the impact of microbes on public health will be dissected, focusing on emerging infections and the crucial issue of antibiotic resistance. Finally, the applications of micro-organisms in biotechnological and industrial processes will be considered, with a detailed consideration of novel approaches to design of new antibiotics.

### Teaching and learning methods

Lectures, workshops and practicals.