

Spring Semester, Level 5 module
(Maximum 60 Students)

UCU: 20

Organiser: Professor Matthew Gage

MODULE - 40% PASS ON AGGREGATE

Module Type: Examination with Coursework or Project

Timetable Slot:A2\, B1/, D1-H1

Exam Paper(hrs):2

BEFORE TAKING THIS MODULE YOU MUST TAKE BIO-4002B

You will explore how evolution and ecology shape animal behaviour, examining how important traits have evolved to maximise survival and reproduction in the natural environment. Darwinian principles provide the theoretical framework, and you will explore key concepts of selfishness, altruism, conflict, survival, optimality, reproduction, parental care and death. Relevant research will be used to lead our understanding of the ultimate function of key traits. In parallel with the lectures, you will design, conduct, analyse and present your own research project, working in a group to collect original data in order to answer a question about the adaptive significance of behaviour.

2019/0 - BIO-5014B COMMUNITY, ECOSYSTEM AND MACRO-ECOLOGY

Spring Semester, Level 5 module
(Maximum 62 Students)

UCU: 20

Organiser: Dr Richard Davies

MODULE - 40% PASS ON AGGREGATE

Module Type: Examination with Coursework or Project

Timetable Slot:H3/, G2/, C1/-B3

Exam Paper(hrs):2

This module introduces you to major concepts and definitions in community ecology, macro-ecology and biogeography. You will use these to explore how communities are structured in relation to local-scale to regional-scale processes, how they function and respond to perturbations at different scales, and result in emergent macro- to global-scale patterns of biodiversity distribution. Throughout the module, there is an emphasis on the relevance of theory and fundamental science to understanding the current environmental and biodiversity crisis. Anthropogenic impacts on natural communities through land-use, species exploitation, non-native species, and climate change, are a recurrent theme underpinning the examples you will draw upon.

2019/0 - BIO-5015B MICROBIOLOGY

Spring Semester, Level 5 module
(Maximum 150 Students)

UCU: 20

Organiser: Dr Jonathan Todd

MODULE - 40% PASS ON AGGREGATE

Module Type: Examination with Coursework or Project

Timetable Slot:E2+, B2, D2, A1-F1\, E2/-C3-A3

Exam Paper(hrs):4

BEFORE TAKING THIS MODULE YOU MUST TAKE BIO-4013Y OR TAKE BIO-4001A

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A broad module covering all aspects of the biology of microorganisms, providing key knowledge for specialist modules. Detailed description is given about the cell biology of bacteria, fungi and protists together with microbial physiology, genetics and environmental and applied microbiology. The biology of disease-causing microorganisms (bacteria, viruses) and prions is also covered. Practical work provides hands-on experience of important microbiological techniques, and expands on concepts introduced in lectures. The module should appeal to biology students across a wide range of disciplines and interests.

2019/0 - BIO-6005B MICROBIAL CELL BIOLOGY

Spring Semester, Level 6 module

(Maximum 20 Students)

UCU: 20

Organiser: Dr Jacob Malone

MODULE - 40% PASS ON AGGREGATE

Module Type: Examination with Coursework or Project

Timetable Slot:E2+-C3, B2, A1/

Exam Paper(hrs):2

Exam Period:SPR-02

BEFORE TAKING THIS MODULE YOU MUST TAKE BIO-5003B OR TAKE BIO-5015B OR TAKE BIO-2B02 OR TAKE BIO-2B28

This module will provide you with a detailed understanding of cutting-edge developments in microbial cell biology. You will cover essential techniques used to carry out modern day molecular microbiology. These techniques will be further explained to you in the context of work done on model microbial systems in research conducted on the Norwich Research Park (NRP). The module is taught to you by world-leading research scientists from the NRP and focuses on the structure and analysis of bacterial genomes, the bacterial cytoskeleton, sub-cellular localisation, cell shape and cell division and intercellular communication between bacteria and higher organisms. You will also have research-led seminars delivered by NRP PhD students.

2019/0 - BIO-6006B CELL BIOLOGY AND MECHANISMS OF DISEASE

Spring Semester, Level 6 module

(Maximum 60 Students)

UCU: 20

Organiser: Dr Mette Mogensen

MODULE - 40% PASS ON AGGREGATE

Module Type: Examination with Coursework or Project

Timetable Slot:D2, E2/, F1\

