

Module Catalogue

Faculty of Science and Technology

Postgraduate Study Abroad 2018/9

Semester 2

| Module Code | Module Name | Level | Semester | UK Credit Value | Credit Equivalency |
|----------------------------|---|-------|------------|-----------------|---------------------------------|
| Biomedical Sciences | | | | | |
| 7BIOM022W | Immunotherapy | 7 | Semester 2 | 20 | US Credits 4 / ECTS credits 10* |
| 7BIOM039W | Advanced Molecular Biology | 7 | Semester 2 | 20 | US Credits 4 / ECTS credits 10* |
| Computer Science | | | | | |
| 7CSEF002W | Cyber Security Threats and Countermeasures | 7 | Semester 2 | 20 | US Credits 4 / ECTS credits 10* |
| Psychology | | | | | |
| 7HPSY004W | Individual Differences: Health Stress and Disease | 7 | Semester 2 | 20 | US Credits 4 / ECTS credits 10* |

* All transcripts are issued in UK credits. Please note the recommendation of a 4 US credit value equivalency is provided as guidance. Final credit values for all modules for US students are decided by your home institution and will be dependent on its credit transfer policies.

Biomedical Sciences

Immunotherapy

Module Code: 7BIOM022W

Level 7

Semester 2

Location: Cavendish

UK Credit Value: 20

Equivalent Credit Value: US Credits 4 / ECTS credits 10*

Manipulation of the immune system from passive immunisation to the use of novel recombinant molecules is addressed. Strategies available for therapy of inherited and acquired immunological disorders are addressed. Modern applications for gene and cell-based therapies are discussed. Novel targets for vaccination strategies are compared. The production of recombinant antibodies and their use in immunotherapy of a variety of different

diseases is examined. Manipulation of cytokines is also explored. Immunotherapy of tumours, inflammatory conditions and autoimmune diseases are discussed.

Assessment: Coursework (25%), Presentation (25%), Examination - closed book (50%)

*All transcripts are issued in UK credits.

Advanced Molecular Biology

Module Code: 7BIOM039W

Level 7

Semester 2

Location: Cavendish

UK Credit Value: 20

**Equivalent Credit Value: US Credits 4 /
ECTS credits 10***

Large databases yield information about DNA, RNA and protein variation between individuals and species and bioinformatics is a crucial component of molecular biology. Polymorphisms, epigenetics and microRNA have all greatly enhanced our knowledge about regulation of gene expression. This module will look at applications of a range of advanced molecular techniques such as next generation sequencing, microarrays, quantitative and multiplex PCR alongside our knowledge of OMICS databases.

Assessment: Presentation (50%), Examination - closed book (50%)

*All transcripts are issued in UK credits.

Computer Science

Cyber Security Threats and Countermeasures

Module Code: 7CSEF002W

Level 7

Semester 2

Location: Cavendish

UK Credit Value: 20

**Equivalent Credit Value: US Credits 4 /
ECTS credits 10***

Pre-requisite: a background in Computer Science

Cyber security threats and countermeasures at physical and digital level focusing on behaviour of employees, home users, software developers. Developments in automated threats and counter-measures.

Assessment: Presentation (25%), Essay (75%)

*All transcripts are issued in UK credits.

Psychology

Individual Differences: Health Stress and Disease

Module Code: 7HPSY004W

Level 7

Semester 2

Location: Cavendish

UK Credit Value: 20

**Equivalent Credit Value: US Credits 4 /
ECTS credits 10***

Pre-requisite: undergraduate degree in Psychology

The module aims to: provide students with an appreciation of the psychological processes involved in consultation, the provision of interventions and effects of subsequent behaviour; provide students with an appreciation of health in different settings and contexts; equip students with advanced socio-cognitive and socio-affective knowledge.

Assessment: Coursework (50%), In-Class Test/Assignment exam conditions (50%)

*All transcripts are issued in UK credits.

