1. **Title of the module**

BIOS6220 (BI622) - Advanced Immunology

1. **School or partner institution which will be responsible for management of the module**

Biosciences

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 6

1. **The number of credits and the ECTS value which the module represents**

15 credits (7.5 ECTS)

1. **Which term(s) the module is to be taught in (or other teaching pattern)**

Autumn

1. **Prerequisite and co-requisite modules**

Prerequisite:

BIOS5050 Infection and Immunity

1. **The programmes of study to which the module contributes**

Biochemistry and related programmes

Biomedical Science and related programmes

Biology and related programmes

1. **The intended subject specific learning outcomes.  
   On successfully completing the module students will be able to:**

8.1 Demonstrate the ability to comprehend the importance of regulation of immune function, with reference to disease states which result when regulation is defective.

8.2 Demonstrate an ability to critically evaluate current theories of immunological function and processes.

1. **The intended generic learning outcomes.  
   On successfully completing the module students will be able to:**

9.1 Critically select and interpret information from textbooks and primary research papers/reviews.

9.2 Demonstrate an ability to present information accurately in a stipulated format e.g. in a) an in class test timed essay format or b) in a concise “camera ready” format (encyclopaedia entry).

1. **A synopsis of the curriculum**

The aim of this Advanced Immunology module is to review topical aspects of advanced immunology with emphasis on the regulation of the immune response, and the role of dysfunctional immune systems in the aetiology of a variety of disease states. Indicative topics include antigen processing and presentation, transplant rejection, autoimmunity, hypersensitivity, cell migration homing and extravasation, cytokines, tumour immunology, mucosal immunology and autophagy.

1. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**

* Murphy, K. and Weaver, C. Janeway’s Immunobiology (9th edition, 2017) Garland Science
* Owen J, Punt J and Stranford, S. Kuby Immunology (8th Edition, 2019) Macmillan Publishing

1. **Learning and teaching methods**

Total contact hours: 23

Private study hours: 127

Total study hours: 150

1. **Assessment methods**
   1. Main assessment methods

In class Timed Essay (21%)

Encyclopaedia entry (14%)

2 hour Examination (65%)

13.2 Reassessment methods

like for like

1. **Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section12) and methods of assessment (section 13)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *9.1* | *9.2* |
| **Learning/ teaching method** |  |  |  |  |
| Lectures | **X** | **X** | **X** | **X** |
| Private Study | **X** | **X** | **X** | **X** |
| Research/preparation for timed essay | **X** | **X** | **X** | **X** |
| Research/preparation for encyclopaedia entry | **X** | **X** | **X** | **X** |
| **Assessment method** |  |  |  |  |
| Timed essay | **X** | **X** | **X** | **X** |
| Encyclopaedia entry | **X** | **X** | **X** | **X** |
| Examination | **X** | **X** | **X** | **X** |

1. **Inclusive module design**

The Schoolrecognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

1. **Campus(es) or centre(s) where module will be delivered**

Canterbury

1. **Internationalisation**

Biosciences is an international discipline. This module presents subject-specific knowledge, research approaches and techniques, generated, developed and refined by scientists around the world. Mastery of the learning outcomes will equip students to apply the theories and techniques of the module in a wide range of international contexts. In compiling the reading list, consideration has been given to the range of texts that are available internationally and a selection has been identified to complement the delivery of the material. The School of Biosciences is an international community of students and staff. Group activities e.g. in practicals, tutorials, workshops and self-study will naturally draw on the international make-up of the student body; the module teaching team includes members with international experience of teaching and research collaboration

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**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
| 20/01/20 | Minor | Sept 20 | 11, 13 | No |
|  |  |  |  |  |

Revised FSO Feb 2020