1. **Title of the module**

BIOS3070 (BI307) - Human Physiology and Disease I

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 4

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)**

Spring

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

Prerequisite:

A level Biology or equivalent

Or

BIOS3050 Fundamental Human Biology

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

Biochemistry and related programmes

Biomedical Science and related programmes

Biology and related programmes

Bioengineering and related programmes

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

8.1 Describe the main physiological systems of the body and the basic anatomical structure and histology of the principal organs in these systems.

8.2 Understand the role of the main physiological systems in the maintenance of whole body homeostasis.

8.3 Describe the consequences of alteration of normal physiological states and the evolution of disease.

1. **The intended generic learning outcomes.  
   On successfully completing the module students will be able to:**
   1. Extract and interpret information at a first year undergraduate level.

9.2 Acquire skills in written communication.

1. **A synopsis of the curriculum**

This module will consider the anatomy and function of normal tissues, organs and systems and then describe their major pathophysiological conditions. It will consider the aetiology of the condition, its biochemistry and its manifestation at the level of cells, tissues and the whole patient. It may also cover the diagnosis and treatment of the disease condition.

Indicative topics will include:

Cells and tissues

Membrane dynamics

Cell communication and homeostasis

Introduction to the nervous system

The cardiovascular system

The respiratory system

The immune system and inflammation

Blood cells and clotting

The Urinary system

The digestive system, liver and pancreas

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

* Human Physiology-An Integrated Approach (8th edition, 2018) by Silverthorn, D. Published by Pearson

1. **Learning and teaching methods**

Total contact hours: 27

Private study hours: 123

Total study hours: 150

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

Practical Report – 14 questions (20%)

MCQ Assessments – 40 questions (20%)

Examination (60%), 2 hours

13.2 Reassessment methods

Reassessment Instrument: 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* | *8.3* | *9.1* | *9.2* |
| **Learning/ teaching method** |  |  |  |  |  |
| **Private Study** | **X** | **X** | **X** | **X** | **X** |
| *Lectures* | **X** | **X** | **X** |  |  |
| *Laboratory Practical* |  |  |  | **X** | **X** |
| **Assessment method** |  |  |  |  |  |
| *IC test* | **X** | **X** | **X** |  |  |
| *Lab Practical Report* |  | **X** |  | **X** | **X** |
| *Examination* | **X** | **X** | **X** | **X** | **X** |

1. **Inclusive module design**

The School recognises 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**

Bioscience 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 | Sep 2020 | 11, 13 | No |
|  |  |  |  |  |

Revised FSO Feb 2020