MODULE SPECIFICATION TEMPLATE

**SECTION 1: MODULE SPECIFICATIONS**

1. **Title of the module**

BI307 Human Physiology and Disease I

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

Biosciences

1. **Start date of the module**

September 2003 – minor revision July 2013

1. **The number of students expected to take the module**

220

1. **Modules to be withdrawn** on the introduction of this proposed module and consultation with other relevant Schools and Faculties regarding the withdrawal

None this is a minor revision of an existing module

1. **The level of the module** (e.g. Certificate [C], Intermediate [I], Honours [H] or Postgraduate [M])

C

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 Term

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

A level Biology or equivalent or BI305 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

1. **The intended subject specific learning outcomes**

 On successful completion of this module students will:

1. Be able to describe the main physiological systems of the body and the basic anatomical structure and histology of the principal organs in these systems.
2. Understand the role of the main physiological systems in the maintenance of whole body homeostasis.
3. Be able to describe the consequences of alteration of normal physiological states and the evolution of disease.

**12.The intended generic learning outcomes**

1. To be able to extract and interpret information at a first year
undergraduate level.
2. Acquire skills in written communication.

**13.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 etiology of the condition, its biochemistry and its manifestation at the level of cells, tissues and the whole patient. It will cover the diagnosis of the condition, available prognostic indicators and treatments.

It 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 digestive system, liver and pancreas

The Urinary system .

**14.Indicative Reading List**

Human Physiology-An integrated approach (6th edition, 2012) by Silverthorn, D. Published by Pearson.

**15.Learning and Teaching Methods**, including the nature and number of contact hours and the total study hours which will be expected of students, and how these relate to achievement of the intended module learning outcomes

The material will be delivered by lectures and a practical class.

The lectures will address learning outcomes 11.1-11.3

The practical class will address learning outcomes 11.3, 12.1 and 12.2

**Contact Hours**

Lectures: 22h

Feedback: 1h

Multiple-choice test: 1h

Practical 3hr Antigen antibody interaction in the immune system and cell identification

**Self Study:**

Reading and preparation for multiple choice test 25h

Preparation of practical report 24h

Reading and preparation for examinations 74h

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**16. Assessment methods** and how these relate to testing achievement of the intended module learning outcomes

Examination (60% of the overall mark for the module) and course work (40% of the overall mark for the module).

The examination will be a 2 hour unseen paper held at the end of the year and will require students to show an understanding of the theoretical content of the module. In the final 2 hr. summer exam, the paper will contain a multiple choice section of 30 questions and a choice of one essay type answer from three questions. Essay section carries 50% of the exam mark (30% of module overall) and multiple choice section 50% (30% of module mark).

The examination will test the achievement of outcomes 11.1-3, 12.2

The course work component will be 1 x 3hours practical class (20%) and 1 x 45 min MCQ test (20%)

The practical class will test the achievement of outcomes 11.3, 12.1 and 12.2

The multiple choice test will test the achievement of outcomes 11.1-3, 12.1

**17.Implications for learning resources, including staff, library, IT and space**

None this is a minor revision of an existing module

**18. The School recognises** and has embedded the expectations of current disability equality legislation, and supports students with a declared disability or special educational need in its teaching. Within this module we will make reasonable adjustments wherever necessary, including additional or substitute materials, teaching modes or assessment methods for students who have declared and discussed their learning support needs. Arrangements for students with declared disabilities will be made on an individual basis, in consultation with the University’s disability/dyslexia support service, and specialist support will be provided where needed.

**19.Campus(es) where module will be delivered:**

Canterbury

**SECTION 2: MODULE IS PART OF A PROGRAMME OF STUDY IN A UNIVERSITY SCHOOL**

**Statement by the School Director of Learning and Teaching/School Director of Graduate Studies (as appropriate):** "I confirm I have been consulted on the above module proposal and have given advice on the correct procedures and required content of module proposals"

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| ................................................................Director of Learning and Teaching/Director of Graduate Studies (delete as applicable)…………………………………………………Print Name | ..............................................Date |

**Statement by the Head of School:** "I confirm that the School has approved the introduction of the module and, where the module is proposed by School staff, will be responsible for its resourcing"

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| .................................................................Head of School…………………………………………………….Print Name | ..............................................Date |

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