1. **Title of the module**

 LABS503 Infection & Immunity

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

Centre for Higher and Degree Apprenticeships (CHDA)

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

Level 5

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)**

Flexible delivery model

Autumn and/or Spring and/or Summer

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

N/A

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

FdSc and BSc (Hons) in Applied Bioscience

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

8.1 Demonstrate an understanding of the nature of infectious diseases, their transmission and spread.

8.2 Develop an understanding of the elements of the immune system in terms of the body’s response to infection.

8.3 Appreciate the consequences of immune responses.

8.4 Demonstrate an understanding of the methods used to manipulate the immune response: and appreciate the role of immunisation and vaccination programmes.

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

9.1 Analyse, evaluate and correctly interpret data.

9.2 Present and communicate data effectively.

9.3 Obtain and use information from a variety of sources as part of self-directed learning.

9.4 Display time-management and organisational skills within the context of self-directed learning.

1. **A synopsis of the curriculum**

The major micro-organisms responsible for infectious disease in humans

Routes of entry and host defences

Pathogenicity and modes of transmission

The role of the immune system: Defence of the realm

The components and function of the immune system – humoral and cell mediated immunity; innate and acquired immunity, antibody-antigen interactions

Immunisation and vaccination programmes as modern Public Health control measures

When things go wrong: allergy, autoimmunity, immunodeficiency and transplant rejection

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

Playfair, J. and Chain, B. (2005) Immunology at a glance, 9th edition. Blackwell (Oxford).

Playfair, J. and Bancroft, G. (2008) Infection and Immunity, 3rd edition. Oxford University Press.

Robson, A. and Roitt, I. (2005) Really essential immunology. Blackwell (Oxford).

Wood, P. (2006) Understanding Immunology. Pearson.

1. **Learning and teaching methods**

Blended distance learning:

Contact Hours: 110

Private Study Hours: 40

Total Study Hours: 150

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

Portfolio 30% - composed of 5 individual assignments where topics are applied to the workplace

Assignments 20% - 2 Assignments

2 hr Exam 50% - MCQs (20%) and standard-length questions (30%)

The pass mark for each individual assessment is 40%.  All assessments must be passed in order to pass the module.

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 | 8.3 | 8.4 | 9.1 | 9.2 | 9.3 | 9.4 |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |
| **Teaching** | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |
| Private Study | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Work-based experience |  |  |  |  | **x** | **x** | **x** | **x** |
| **Assessment method** |  |  |  |  |  |  |  |  |
| Portfolio |  |  |  |  | **x** | **x** | **x** | **x** |
| Assignments | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| MCQ | **x** | **x** | **x** | **x** |  |  |  | **x** |
| Examination | **x** | **x** | **x** | **x** |  |  |  | **x** |

1. **Inclusive module design**

The School/Collaborative Partner *(delete as applicable)* 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**

Blended distance learning – delivered from Medway or Canterbury campus

1. **Internationalisation**

Infection & Immunity is a core component of the Pharmaceutic R & D industry and this module reflects international aspects. With regards to the intended learning outcomes, in particular 8.4, the target learning outcomes within this module are applicable worldwide as part of the universal principles of Bioscience. With regard to subject content, the material within the syllabus is applied to a wide range of international contexts.

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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.**

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| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
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