

Module Details	
Module Title	Biology of Disease
Module Code	BIS6012-B
Academic Year	2024/5
Credits	20
School	School of Chemistry and Biosciences
FHEQ Level	FHEQ Level 6

Contact Hours	
Type	Hours
Lectures	11
Tutorials	8
Directed Study	181

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2

Module Aims
<p>To further conceptual understanding of: the mechanisms (endogenous and exogenous) associated with the development, progression, manifestation and complications of disease in human beings; which affect particular organs/tissues and the accompanying changes in biochemistry, cell biology and physiology which arise both locally and systemically; the laboratory diagnosis and management of human disease (HCPC standard 13).</p> <p>To provide an opportunity to further develop discipline specific and personal transferable skills (HCPC standard 14).</p>

Outline Syllabus
<p>Introduction to molecular pathology; molecular mechanisms in disease; biochemical responses to disease states. Each of the team based learning sessions will cover a different disease. The pathobiology, diagnosis and management (therapeutic options) of one important disease such as diabetes or type of cancer will be studied using knowledge and expertise from each specialist option area.</p>

Learning Outcomes	
Outcome Number	Description
01	Discuss in detail the pathology, biochemistry, infection and physiological response in a human disease (HCPC standards 4, 8, 13 and 14).
02	Understand the diagnosis and management of human diseases.
03	Interpret clinical and laboratory data relating to the pathobiological changes in disease states; present scientific information using appropriate scientific language.
04	Work successfully individually and in a team to interpret and evaluate data. Work in a team to prepare a poster.
05	Demonstrate personal responsibility for self-directed learning and time management.

Learning, Teaching and Assessment Strategy
<p>The knowledge and understanding required for this module is delivered in a series of introductory lectures, followed by interactive workshops on an aspect of disease. The core knowledge for this module is delivered by reference to current published scientific literature which requires extensive further reading and autonomous learning by the students. Development of knowledge and understanding and other skills is also achieved using workshop sessions. In the workshops you will work in groups to understand case studies and/or published scientific journal articles; this will involve researching information, interpreting data, solving problems and will develop your understanding and the case study information is then summatively assessed. The group poster assessment will require you to work under pressure, meet deadlines and develop communication skills. During directed study hours, students are expected to undertake reading to consolidate and expand on the content of formal taught sessions; research and prepare for assessments; revise material from formal taught sessions; and undertake specific elements of reading as directed.</p> <p>The following statement applies to learners that are completing this module as part of an Apprenticeship.</p> <p>The apprentice must meet all the required standards when measured against each individual learning outcome for the module (as mapped below):</p> <p>Healthcare Science Practitioner: 5.1, 5.5</p>

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Presentation	Production of a group poster (LO 1-5) 0-2000 words	30%
Summative	Online MCQ Examination	1 individual e-assessment (LO 1-2) (1.5 Hrs)	70%

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.

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