

<b>Module Details</b>	
<b>Module Title:</b>	Pathophysiological Basis of Chronic Disease
<b>Module Code:</b>	BIS7024-B
<b>Academic Year:</b>	2019-20
<b>Credit Rating:</b>	20
<b>School:</b>	School of Chemistry and Biosciences
<b>Subject Area:</b>	Biomedical Science
<b>FHEQ Level:</b>	FHEQ Level 7 (Masters)
<b>Pre-requisites:</b>	
<b>Co-requisites:</b>	Neuroendocrine Regulation of Metabolism and Human Development 2019-20

<b>Contact Hours</b>	
<b>Type</b>	<b>Hours</b>
Lectures	18
Practical classes and workshops	9
Directed Study	173

<b>Availability</b>	
<b>Occurrence</b>	<b>Location / Period</b>
BDA	University of Bradford / Semester 2 (Feb - May)

<b>Module Aims</b>
<p>To understand the:</p> <p>Functional anatomy of the main organ systems such as the cardiovascular, respiratory and renal systems.</p> <p>Pathophysiology of age-related chronic diseases such as diabetes, bronchitis, osteoarthritis and cardiovascular disease.</p> <p>Cellular basis of therapeutics.</p>

## Outline Syllabus

To study the theoretical knowledge relating to cardiovascular, respiratory, renal, and joint function, as well as the identification of the pathophysiological basis of related diseases and the rationale for cell specific pharmacological intervention.

## Learning Outcomes

1	Demonstrate a systematic understanding of the mechanisms controlling the normal physiological function of the cardiorespiratory, renal, and other organ systems.
2	Demonstrate a systematic understanding of the molecular and cellular mechanisms of ion transport responsible for homeostasis in selected tissues and organs.
3	Demonstrate a systematic understanding of the pathophysiology of selected diseases such as diabetes, hypertension, heart failure, osteoarthritis, bronchitis, and renal failure.
4	Demonstrate a systematic understanding of the cellular basis of targeted pharmacological intervention in disease.

## Learning, Teaching and Assessment Strategy

The module will be taught by a combination of lectures, case studies and workshops to facilitate an in-depth understanding of the core topics related to human disease.

Summative assessment will be based on coursework elements in the form of workshops on core topics covered in the module.

## Mode of Assessment

Type	Method	Description	Length	Weighting
Formative	Coursework	In-workshop assessment	3 hours	%
Summative	Coursework	Data interpretation exercise on workshop 1	3 hours	50%
Summative	Coursework	Data interpretation exercise on workshop 2	3 hours	50%

## 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.*