Module Definition Form (MDF)

Module code: MOD002877	**Version:** 9 **Date Amended:** 10/Jul/2025

1. Module Title
Human Pathology (BMS)

2a. Module Leader
Gavin Bowen-Metcalf

2b. School
School of Life Sciences

2c. Faculty
Faculty of Science and Engineering

3a. Level
6

3b. Module Type
Standard (fine graded)

4a. Credits
15

4b. Study Hours
150

5. Restrictions

Type	Module Code	Module Name	Condition
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:	Biomedical Science, Life Sciences framework		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

Whereas the study of anatomy and physiology tells us how the body operates when it is healthy, the study of pathology explains how the body operates when disease, exposure to toxins, or ageing causes it to fail in its function. By building on your previous knowledge of pathology, with reference to specific major organ systems of the body, you will learn how, by understanding human pathology, we can develop diagnosis and treatments to treat patients' medical conditions. The skills that you will aquire include independent learning, problem solving and critical thinking. These are essential skills for anyone interested in pursuing a career in the biomedical sciences, either in the hospital or research sectors.

Each week, you will introduced through lectures to the pathology of a major organ system and you will discuss in a case study setting clinically relevant patient scenarios, in which you will review current clinical techniques used in disease diagnosis in order to evaluate and diagnose patients' medical conditions and to consider the best approach to their treatments.

6b. Outline Content

- The general pathology of the major organ systems, and the basis of cell injury/death, inflammation and tissue repair.

- The clinical features of the major diseases of the main organs, including the heart, lungs, liver, digestive system, kidney, brain, breast and blood.

- The pathological processes that lead to major diseases such as heart disease, stroke, cancer and loss of organ function.

--The principles and applications of visualisation and imaging techniques, including microscopy, to aid diagnosis and treatment selection.

- The histological, biochemical, immunological and anatomical changes associated with the disease process in a range of diseases of organs and organ systems.

- Current clinical techniques used in disease diagnosis.

- Medical case histories.

6c. Key Texts/Literature

The reading list to support this module is available at: https://readinglists.aru.ac.uk/

6d. Specialist Learning Resources

Access to a range of appropriate pathological specimens Specialist laboratory Technical support

7. Learning Outcomes (threshold standards)		
No.	**Type**	**On successful completion of this module the student will be expected to be able to:**
1	Knowledge and Understanding	Critically evaluate the general pathology of specific organ systems by showing detailed understanding of the clinical features of major diseases of these organ systems.
2	Knowledge and Understanding	Apply diagnostic analysis in order to determine the pathology and the medical treatments of pathological conditions.
3	Intellectual, practical, affective and transferrable skills	Critically evaluate the current clinical techniques used for disease diagnosis and show an appreciation of the uncertainty, ambiguity and limits of these techniques.
4	Intellectual, practical, affective and transferrable skills	Evaluate and interpret patients' clinical data in order to develop critical and problem-solving abilities through the use of diagnostic medical case studies.

8a. Module Occurrence to which this MDF Refers				
Year	**Occurrence**	**Period**	**Location**	**Mode of Delivery**
2025/6	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	**Hours**	**Learning Outcomes**	**Details of Duration, frequency and other comments**
Lectures	22	1-3	11 x 2hr lectures/active learning
Other teacher managed learning	14	1-4	11 x 1 hr case study + 3 hrs revision
Student managed learning	114	1-3	Background reading, online activities, preparation for lectures and practicals, and completion of assessments
TOTAL:	150		

9. Assessment for the above Module Occurrence					
Assessment No.	**Assessment Method**	**Learning Outcomes**	**Weighting (%)**	**Fine Grade or Pass/Fail**	**Qualifying Mark (%)**
010	Coursework	1,3	50 (%)	Fine Grade	40 (%)
Coursework (1500 words) (40% Qualifying Mark as stipulated by the IBMS)					
Assessment No.	**Assessment Method**	**Learning Outcomes**	**Weighting (%)**	**Fine Grade or Pass/Fail**	**Qualifying Mark (%)**
011	Coursework	2,4	50 (%)	Fine Grade	40 (%)
In-class test (1 hour 30 minutes) (40% Qualifying Mark as stipulated by the IBMS)					

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:
(a) achieve the qualifying mark for each element of fine graded assessment as specified above
(b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]