



MODULE SPECIFICATION

Part 1: Information			
Module Title	Tissue and Tumour Science		
Module Code	USSJXT-15-2	Level	Level 5
For implementation from	2020-21		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Health & Applied Sciences	Field	
Department	HAS Dept of Applied Sciences		
Module type:	Standard		
Pre-requisites	Infection and Disease 2019-20		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Educational Aims: This module focuses on aspects of the Cellular Pathology discipline, incorporating aspects of cancer cell biology. This follows on from the short introduction given to Cell Path and cancer at level 1, complements other modules at level 2 (without duplication), and will better prepare students to cover these topics at level 3 (without being a prerequisite).</p> <p>Outline Syllabus: Outline Syllabus: This module may be considered in 3 discrete sections – briefly:</p> <p>Technical aspects of Cellular Pathology. Cancer Biology Cancer Case Studies</p> <p>Technical aspects of Cellular Pathology: This element of the module will cover the preparative processes used in Cellular Pathology for sample analysis. This will include the theory of stain action and its application, immunocytochemistry and the molecular techniques used. The use of these methods will be applied to disease diagnosis.</p> <p>Cancer Biology:</p>

STUDENT AND ACADEMIC SERVICES

From basic biology to clinical application. This section will introduce some of the key concepts of the diagnosis and prognosis of neoplasia before exploring the multi-faceted “hallmarks of cancer” model. Each of these key features of malignant disease will be outlined and linked together to give a cohesive overview of cancer cell biology and treatment.

Cancer Case Studies:

These sessions will introduce students to the four most common cancers diagnosed in the UK. The epidemiology, aetiology, pathophysiology, genetics, variants and current treatment will be described for Breast, lung, prostate and colorectal cancer.

Teaching and Learning Methods: The majority of the taught material will be delivered as lectures. Practical classes will be used to give hands-on experience of preparing tissue samples and diagnostic analysis, whilst supporting concepts covered in lectures. Tutorials will be used to allow analysis and discussion of the laboratory results generated.

Independent Learning: In addition, students are expected to prepare for tutorial sessions by carrying out designated reading tasks. Furthermore, they are expected to undertake independent reading – with guidance given during lectures. This reading is designed to support student learning both for the completion of coursework, but also in preparation for the final exam, to ensure both the breadth and depth of their knowledge.

Part 3: Assessment

Component A: will consist of an online examination.

The exam assesses breadth and depth of knowledge and understanding of the fundamental concepts underlying cellular pathology approaches to the study of tissues and the essentials of cancer cell biology. Formative support for this is provided through a structured revision tutorial and in-class review of previous exam answers.

Component B: The coursework element of the module is a 1500 word laboratory report. The laboratory report links the lectures to the practical sessions, demonstrating knowledge of concepts of clinical practice. The students will need to research and document the correct clinical interpretation of their own data and its impact on both patient diagnosis and prognosis in a case study-based approach. This assignment is supported through both in-class tutorials and online support materials.

First Sit Components	Final Assessment	Element weighting	Description
Examination (Online) - Component A	✓	50 %	Online examination (24 hours)
Written Assignment - Component B		50 %	Laboratory Report (1500 words)
Resit Components	Final Assessment	Element weighting	Description
Examination (Online) - Component A	✓	50 %	Online examination (24 hours)
Written Assignment - Component B		50 %	Laboratory Report (1500 words)

STUDENT AND ACADEMIC SERVICES

Part 4: Teaching and Learning Methods																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th style="text-align: left;">Module Learning Outcomes</th> <th style="text-align: left;">Reference</th> </tr> </thead> <tbody> <tr> <td>Employ good laboratory practice related to Cellular Pathology techniques</td> <td>MO1</td> </tr> <tr> <td>Understand the principles of tissue preparation for histology and the mechanism by which common staining methods work</td> <td>MO2</td> </tr> <tr> <td>Understand the key properties of malignant cells as described by the “Hallmarks of cancer” model and the basic cell biology underpinning each</td> <td>MO3</td> </tr> <tr> <td>Appreciate the role of Cellular Pathology in the diagnosis, prognosis and clinical management of cancer</td> <td>MO4</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Employ good laboratory practice related to Cellular Pathology techniques	MO1	Understand the principles of tissue preparation for histology and the mechanism by which common staining methods work	MO2	Understand the key properties of malignant cells as described by the “Hallmarks of cancer” model and the basic cell biology underpinning each	MO3	Appreciate the role of Cellular Pathology in the diagnosis, prognosis and clinical management of cancer	MO4						
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Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://rl.talis.com/3/uwe/lists/092E203B-25C0-79FA-E0A5-3DA247C5438C.html?lang=en-GB&login=1</p>																

Part 5: Contributes Towards
<p>This module contributes towards the following programmes of study:</p>