



## **Module Specification**

### Tissue and Tumour Science

Version: 2023-24, v2.0, 31 May 2023

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## Part 1: Information

**Module title:** Tissue and Tumour Science

**Module code:** USSJXT-15-2

**Level:** Level 5

**For implementation from:** 2023-24

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**Faculty:** Faculty of Health & Applied Sciences

**Department:** HAS Dept of Applied Sciences

**Partner institutions:** None

**Delivery locations:** Not in use for Modules

**Field:**

**Module type:** Module

**Pre-requisites:** Infection and Disease 2022-23

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** Not applicable

**Features:** Not applicable

**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).

**Outline syllabus:** Outline Syllabus: This module may be considered in 3 discrete sections – briefly:

Technical aspects of Cellular Pathology.

Cancer Biology

Cancer Case Studies

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.

Cancer Biology:

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.

### **Part 3: Teaching and learning methods**

**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.

**Module Learning outcomes:** On successful completion of this module students will achieve the following learning outcomes.

**MO1** Employ good laboratory practice related to Cellular Pathology techniques

**MO2** Understand the principles of tissue preparation for histology and the mechanism by which common staining methods work

**MO3** Understand the key properties of malignant cells as described by the “Hallmarks of cancer” model and the basic cell biology underpinning each

**MO4** Appreciate the role of Cellular Pathology in the diagnosis, prognosis and clinical management of cancer

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 117 hours

Face-to-face learning = 33 hours

Total = 150

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/092E203B-25C0-79FA-E0A5-3DA247C5438C.html?lang=en-GB&login=1) via the following link <https://rl.talis.com/3/uwe/lists/092E203B-25C0-79FA-E0A5-3DA247C5438C.html?lang=en-GB&login=1>

## **Part 4: Assessment**

**Assessment strategy:** Assessment task 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.

Assessment task 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.

**Assessment components:**

**Examination (Online) (First Sit)**

Description: Online examination (24 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

**Written Assignment (First Sit)**

Description: Laboratory Report (1500 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested:

**Examination (Online) (Resit)**

Description: Online examination (24 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

**Written Assignment (Resit)**

Description: Laboratory Report (1500 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested:

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Applied Biomedical Science [Frenchay] BSc (Hons) 2022-23

Biomedical Science [Frenchay] BSc (Hons) 2022-23

Biomedical Science [Frenchay] MSci 2022-23

Biomedical Science [Sep][PT][Frenchay][6yrs] BSc (Hons) 2021-22

Biomedical Science {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2021-22

Biomedical Science {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2021-22

Biomedical Science [Sep][PT][Frenchay][8yrs] MSci 2021-22

Biomedical Science {Foundation} [Sep][SW][Frenchay][6yrs] MSci 2021-22

Biomedical Science {Foundation} [Sep][FT][Frenchay][5yrs] MSci 2021-22

Biomedical Science [Sep][PT][Frenchay][6yrs] BSc (Hons) 2020-21

Biomedical Science [Sep][PT][Frenchay][8yrs] MSci 2020-21