

## MODULE DESCRIPTOR

### Module Title

Cellular Pathology

Reference	AS4018	Version	4
Created	July 2017	SCQF Level	SCQF 10
Approved	September 2004	SCQF Points	15
Amended	August 2017	ECTS Points	7.5

### Aims of Module

To provide students with the ability to explain the techniques, methods and role of histopathology in the diagnosis of disease.

### Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Discuss the specialised procedures and staining of histological specimens.
- 2 Discuss the diagnostic value of specialised procedures such as histochemistry, immunocytochemistry and electron microscopy.
- 3 Discuss the preparation of cytological specimens.
- 4 Distinguish between the structure of cells and tissues in the normal and diseased state.

### Indicative Module Content

Histopathology: specialised procedures, principles of colouration and staining. Histochemistry: pigments, lipids, nucleic acids and enzymes. Image analysis. Interpretation of microscopic sections. Immunocytochemistry and its value. Use of tumour markers. Applications of molecular techniques. Electron Microscopy: applications in the diagnosis of disease. Cytopathology: screening programmes. Recognition of cell types and the changes brought about by disease. Diagnostic cytopathology, recognition of cell types in respiratory specimens and body fluids, fine needle aspiration. Histopathology: The general basis of disease, the changes in cells and tissues associated with inflammation, thrombosis, infarction and tumours.

### Module Delivery

This is a lecture based course supplemented with tutorial sessions, case studies, laboratory work and practical demonstrations.

<b>Indicative Student Workload</b>	Full Time	Part Time
Contact Hours	40	N/A
Non-Contact Hours	110	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

## ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

### Component 1

Type: Examination Weighting: 70% Outcomes Assessed: 1, 2, 3  
 Description: Unseen, closed book examination.

### Component 2

Type: Coursework Weighting: 30% Outcomes Assessed: 4  
 Description: Oral presentation.

## MODULE PERFORMANCE DESCRIPTOR

### Explanatory Text

This module is assessed using the two components of assessment as detailed in the Assessment Plan. To pass this module, candidates must achieve a Module Grade D or better.

Module Grade	Minimum Requirements to achieve Module Grade:
<b>A</b>	Final aggregate mark of 70% or greater and a minimum of 35% in C1 and C2
<b>B</b>	Final aggregate mark of between 60-69% and a minimum of 35% in C1 and C2
<b>C</b>	Final aggregate mark of between 50-59% and a minimum of 35% in C1 and C2
<b>D</b>	Final aggregate mark of between 40-49% and a minimum of 35% in C1 and C2
<b>E</b>	MARGINAL FAIL. Final aggregate of between 35-39% and a minimum of 35% in C1 and C2
<b>F</b>	FAIL. A mark of less than 35% in either component
<b>NS</b>	Non-submission of work by published deadline or non-attendance for examination

## Module Requirements

Prerequisites for Module	In addition to SCQF 10 entry requirements, students should be familiar with the fundamentals of human cytology and histology.
Corequisites for module	None.
Precluded Modules	None.

**INDICATIVE BIBLIOGRAPHY**

- 1 BANCROFT, J.D. AND GAMBLE, M. *Theory and Practice of Histological Techniques*. Current Edition. Churchill Livingstone.
- 2 GRAY, W. AND McKEE, G.T. (ed.). *Diagnostic Cytopathology*. Current Edition. Churchill Livingstone.
- 3 YOUNG, B., O'DOWD, G. and STEWART, W. *Wheater's Basic Pathology: A Text, Atlas and Review of Histopathology*. Current Edition. Churchill Livingstone.
- 4 KIERNAN, J.A. *Histological and Histochemical Methods : Theory and Practice*. Current Edition. Scion Publishing