

# Prifysgol Wreccsam Wrexham University

## Module specification

When printed this becomes an uncontrolled document. Please access the **Module Directory** for the most up to date version by clicking on the following link: [Module directory](#)

|              |   |
|--------------|---|
| Module Code  | SCI728                                  |
| Module Title | Clinical Medicine: Pathology of Disease |
| Level        | 7                                       |
| Credit value | 20                                      |
| Faculty      | FAST                                    |
| HECoS Code   | 100267                                  |
| Cost Code    | GAFS                                    |

## Programmes in which module to be offered

---

| Programme title                             | Is the module core or option for this programme |
|---|---|
| MSc Biomedical Science                      | Core  |
| Postgraduate Certificate Biomedical Science | Option  |
| MRes Applied Biomedical Sciences Research   | Core  |
| MRes Applied Clinical Research              | Core  |

## Pre-requisites

---

N/A

## Breakdown of module hours

|  |                |
|--|----------------|
| Learning and teaching hours  | 21 hrs         |
| Placement tutor support  | 0 hrs          |
| Supervised learning e.g. practical classes, workshops                | 0 hrs          |
| Project supervision (level 6 projects and dissertation modules only) | 0 hrs          |
| <b>Total active learning and teaching hours</b>                      | <b>21 hrs</b>  |
| Placement / work based learning                                      | 0 hrs          |
| Guided independent study   | 179 hrs        |
| <b>Module duration (total hours)</b>                                 | <b>200 hrs</b> |

|                              |                                |
|------------------------------|--------------------------------|
| <b>For office use only</b>   |                                |
| Initial approval date        | 17/8/23                        |
| With effect from date        | 1/9/23                         |
| Date and details of revision | July 2024 updated Reading List |
| Version number               | 1                              |

## Module aims

---

The module aims to provide students with an in-depth knowledge of the pathology of selected organ systems, including the importance of diagnosis and management of human disease (clinical medicine).

### Module Learning Outcomes - at the end of this module, students will be able to:

|   |  |
|---|--|
| 1 | Critically explore various organ systems and their associated pathological disorders.                  |
| 2 | Interpret disease states and critically evaluate how they are managed.                                 |
| 3 | Evaluate various laboratory investigations to aid in diagnosis and management of human disease.        |
| 4 | Evidence critical awareness of current research and relevant professional issues in clinical medicine. |

## Assessment

---

Indicative Assessment Tasks:

Learning outcomes assessment will be summative by means of written coursework (4,000 words), which is expected to be of high standard and well researched with current peer reviewed references provided. This will evaluate the pathogenesis and presentation of a given condition. Students will be asked to explore the various laboratory investigations to aid in diagnosis and management of human disease. It will also evidence critical awareness of contemporary professional issues and insight into the cultural, political and professional dimensions of leadership within biomedical and healthcare organisations.

| Assessment number | Learning Outcomes to be met | Type of assessment | Weighting (%) |
|-------------------|-----------------------------|--------------------|---------------|
| 1                 | 1 - 4                       | Coursework         | 100%          |

## Derogations

---

N/A

## Learning and Teaching Strategies

---

Strategies used in this module will involve a blend of several higher education teaching and Learning methods. These will include lectures, seminars, and case studies.

On-line learning will consist of blogs, learning diaries, contribution to fora, quizzes and weekly check-ins. Several sources of information (e.g. Literary books, online literature, web sites) will also be available for students.

## Indicative Syllabus Outline

---

- Neurological disease (e.g. Alzheimer's)
- Bone pathology (e.g. osteoporosis, pain management)
- Common disorders of the Ear, Nose and Throat (ENT)
- Cardiovascular disease
- Cellular and histopathology (cancer)
- Cervical and breast cancer
- Endocrine disorders (e.g. diabetes)
- Liver disease
- Renal disease & urology
- Respiratory disease
- Leading and supporting the team in context

## Indicative Bibliography:

---

### Essential Reads

Kumar, P.J. & Clark, M.L. (2020) *Kumar and Clark's Clinical Medicine, 10th Edition*. Saunders.

Walker, B. (2022) *Davidson's Principles and Practice of Medicine, 24th Edition*. Churchill Livingstone.

Wilkinson, I.B., Raine, T., Hateley, P., Kelly, D. and McGurgan, I. (2024), *Oxford Handbook of Clinical Medicine*. 11th ed. Oxford: Oxford University Press.

The ADAM medical dictionary electronic resource NCBI

### Other indicative reading

Nature Medicine,  
British Medical Journal,  
The Lancet,  
Trends in Immunology,  
Journal of Clinical Investigations.

## **Employability – the University Skills Framework**

---

Each module and programme is designed to cover core Graduate attributes with the aim that each Graduate will leave the University having achieved key employability skills as part of their study. The following attributes will be covered within this module either through the content or as part of the assessment. The programme is designed to cover all attributes and each module may cover different areas.

### **Core Attributes**

Engaged  
Creative  
Ethical

### **Key Attitudes**

Commitment  
Curiosity  
Resilience  
Confidence  
Adaptability

### **Practical Skillsets**

Digital Fluency  
Organisation  
Leadership and Team working  
Critical Thinking  
Emotional Intelligence  
Communication