

Prifysgol Wreccsam Wrexham University

Module specification

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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
Total active learning and teaching hours	21 hrs
Placement / work based learning	0 hrs
Guided independent study	179 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	17/8/23
With effect from date	1/9/23
Date and details of revision	
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.

Longmore, M., Wilkinson, I., & Baldwin, A. (2017) *Oxford Handbook of Clinical Medicine, 10th Edition*. Oxford University Press.

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

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