

Module specification

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|--------------|---------------------|
| Module Code | SCI551 |
| Module Title | Anatomy & Pathology |
| Level | 5 |
| Credit value | 20 |
| Faculty | FAST |
| HECoS Code | 100264 |
| Cost Code | GAFS |

Programmes in which module to be offered

| Programme title | Is the module core or option for this programme |
|---|---|
| BSc (Hons) Forensic Science | Option |
| BSc (Hons) Forensic Science with Placement Year | Option |

Pre-requisites

None

Breakdown of module hours

| | |
|--|----------------|
| Learning and teaching hours | 20 hrs |
| Placement tutor support | 0 hrs |
| Supervised learning e.g. practical classes, workshops | 10 hrs |
| Project supervision (level 6 projects and dissertation modules only) | 0 hrs |
| Total active learning and teaching hours | 30 hrs |
| Placement / work based learning | 0 hrs |
| Guided independent study | 170 hrs |
| Module duration (total hours) | 200 hrs |

| For office use only | |
|------------------------------|----------------|
| Initial approval date | 10/05/2023 |
| With effect from date | September 2023 |
| Date and details of revision | |
| Version number | 1 |

Module aims

This module will familiarise students with the basic concepts of anatomy and pathology, and how in particular these link to forensic science. Students will be introduced to the concept of the human body as a crime scene and the post-mortem examination of human remains. It will help to demonstrate an understanding of the roles of specialists with particular attention to the forensic pathologist and anthropologist and how they establish identity and the cause and manner of death. The module will cover a range of crimes including offences against the person, road traffic collisions, sexual assault, suicide and homicide.

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

| | |
|---|--|
| 1 | Recall terminology required for effective communication of anatomy and pathology. |
| 2 | Identify a range of anatomical structures and their associated pathologies in the human body. |
| 3 | Differentiate between various mechanisms of injury and trauma through the features observed by forensic practitioners. |
| 4 | Examine different types of cause and manner of death seen in cases. |
| 5 | Discuss processes and procedures in the post-mortem examination of human remains. |

Assessment

Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

Assessment 1: Presentation (10 Minutes)

Students will present a critical evaluation of a case study focusing on cause and manner of death.

Assessment 2: In Class Test (2 hours)

Students will complete an in class test containing questions related to practical anatomical laboratory activities and the associated theory.

| Assessment number | Learning Outcomes to be met | Type of assessment | Weighting (%) |
|-------------------|-----------------------------|--------------------|---------------|
| 1 | 1 & 4 | Presentation | 50 |
| 2 | 2, 3 & 5 | In-class test | 50 |

Derogations

None

Learning and Teaching Strategies

The module will be delivered in line with the University's Active Learning Framework and will involve:

Lectures: To provide students with a comprehensive overview of the key concepts and principles.

Discussions and Seminars: To allow students to engage with the material and explore different perspective while also providing an opportunity for students to ask questions and clarify concepts

Laboratory work: To provide students with hands-on experience in anatomical techniques. It can also help students to develop practical skills and apply the concepts learned in lectures and discussions.

Online resources and videos: To supplement classroom learning by providing students with additional information and visual aids to further their understanding of the material.

Self-directed study: To empower students to take responsibility for their own learning and to explore topics of interest in more depth.

Indicative Syllabus Outline

- Health, safety, and legislation
- Human Tissues Act
- GDPR, data protection & privilege
- Anatomical terminology
- Skeletal anatomy
- Systems of the body
- Cells and tissues
- Histology Organs
- Types and mechanisms of injury
- Photography of injuries
- Cause and manner of death
- Postmortem examinations
- Collection and storage of anatomical samples

Indicative Bibliography:

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads

Netter, F.H. (2022), *Netter Atlas of Human Anatomy: A Systems Approach*, 8th Edition, Philadelphia: Elsevier.

Other indicative reading

Knight, B. & Saukko, P. (2016), *Knight's Forensic Pathology*, 4th Edition, Boca Raton: CRC Press.

Payne-James, J. & Jones, R.M. (2019), *Simpson's Forensic Medicine*. 14th Edition, London: CRC Press.

Schuenke, M., Schulte, E., Schumacher, U. & Cass, W. (2021), *Thieme Atlas of Anatomy*, 4th Edition, New York: Thieme.

White, T.D. & Folkens, P.A. (2005), *Human Bone Manual*, Burlington: Elsevier Academic Press.

Employability skills – the Glyndŵr Graduate

Each module and programme is designed to cover core Glyndŵr Graduate Attributes with the aim that each Graduate will leave Glyndŵr 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
Confidence
Adaptability

Practical Skillsets

Digital Fluency

Organisation
Critical Thinking
Emotional Intelligence
Communication