

Module specification

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Module Code	ODP503
Module Title	Applying Life Sciences to Perioperative Practice
Level	5
Credit value	20
Faculty	Faculty of Social and Life Sciences
HECoS Code	100273
Cost Code	AOD

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
BSc (Hons) Operating Department Practice	Core

Pre-requisites

None

Breakdown of module hours

Learning and teaching hours	30 hrs
Placement tutor support	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	30 hrs
Placement / work based learning	0 hrs
Guided independent study	170 hrs
Module duration (total hours)	200 hrs

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Initial approval date	April 22
With effect from date	September 22
Date and details of revision	

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Version number	1

Module aims

To apply the structures and functions of the human body to perioperative practice, understanding how the effects that disease, illness, injury and well-being impact the way in which service users are treated and cared for in the perioperative environment. It is expected that the holistic care of service users is considered throughout, incorporating anaesthetic, surgical and post-anaesthetic care.

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

1	Discuss the physiological functions and mechanisms of the human body within a perioperative context.
2	Explain how physiological systems integrate to support the function of anatomical structures.
3	Assess the pathophysiological changes across the life span and apply them to the perioperative environment.
4	Explain how pharmacology contributes to the management of pathophysiological changes across the life span.

Assessment

Indicative Assessment Tasks:

The learner outcomes for this module will be assessed during a 90 minute in-class test. The exam will be comprised of a combination of multiple-choice, short answer and long answer questions making up 100 marks. There will be an additional 10-minute reading time allowance and additional time for those with learning support statements.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1-4	In-class test	100%

Derogations

There is one summative assessment for this module which is an examination. You will need to achieve a mark of 40% or above to pass the module. The exam has a 100% weighting and therefore the mark you achieve in your exam will be the overall grade for the module.

If you are unsuccessful at achieving a passing grade on your first attempt, the standard resit opportunities are granted. The overall grade for any resit assessments will be capped at 40%.

Learning and Teaching Strategies

A blended learning approach will be used during the delivery of this module combining online educational materials and face-to-face sessions. The use of the University's Virtual Learning Environment (VLE) – Moodle – allows students control over the time, place, and pace of their study. Students have a responsibility to manage and engage with the online pre- and post-session learning resources to allow them to fully comprehend a subject matter.

On campus face-to-face sessions will allow students to strengthen their learning through further discussions and tutor-led problem-based tasks and other activities. Teaching will be delivered through semester style sessions incorporating group and project work.

Indicative Syllabus Outline

All indicative content will apply the taught content to clinical specialties and the perioperative environment, thinking about how practitioner practice is adapted according to individual service user factors.

- Principles of physical science
- Medical terminology
- Normal anatomy of the major body systems across the lifespan
- Normal physiology of the major body systems across the lifespan
- Homeostasis
- Pathophysiology of common illnesses, diseases, injuries, and well-being
- Pharmacology principles
- Human development
- Well-being and psychopathology
- Physiology of pain
- The major body systems:
 - Cells, genetics, tissues, and blood
 - Respiratory system
 - Cardiovascular system
 - Nervous system
 - Digestive system
 - Urinary system
 - Lymphatic system
 - Endocrine system
 - Integumentary system
 - Musculoskeletal system
 - Immune system
 - Reproductive system

Indicative Bibliography:

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

Essential Reads

- Waugh, A. and Grant, A. (2022), *Ross & Wilson Anatomy and Physiology in Health and Illness*. 14th ed. Amsterdam: Elsevier.

Other indicative reading

- Clancy, J. et al. (2002) *Perioperative practice : fundamentals of homeostasis* . London: Routledge.
- Ehrlich, A., Schroeder, C., Schroeder, K. and Ehrlich, L. (2021), *Medical Terminology for Health Professions*. 9th ed. Albany: Delmar
- Guyton, A. C. & Hall, J. E. (1997) *Human physiology and mechanisms of disease* . 6th ed. Philadelphia, Pa: W.B. Saunders.
- Jenkins, G. (2016) *Anatomy and Physiology*. Hoboken: John Wiley
- Ody, E., Norris, M. (2017) *Anatomy & Physiology for Dummies*. 3rd edition. Hoboken, NJ
- Tortora, G. J., Derrickson, B. H., (2016) *Principles of Anatomy and Physiology*. 15th Edition. Wiley: Singapore
- VanMeter, K. and Hubert, R. (2022), *Gould's Pathophysiology for the Health Professions*. 7th ed. Philadelphia, PA: Saunders

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
Enterprising

Key Attitudes

Curiosity
Confidence
Adaptability

Practical Skillsets

Critical Thinking
Emotional Intelligence