

Module specification

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Refer to the module guidance notes for completion of each section of the specification.

Module code	SCI447
Module title	Professional Practice for the Biomedical & Life Sciences (PPBLS)
Level	4
Credit value	20
Faculty	FSLS
Module Leader	Tbc
HECoS Code	100265
Cost Code	GANG

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
BSc (Hons) Biomedical Science	Core
BSc (Hons) Biochemistry	Core

Pre-requisites

None

Breakdown of module hours

Learning and teaching hours	32 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	4 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	36 hrs
Placement / work based learning	164 hrs
Guided independent study	0 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	14/10/2020
With effect from date	01/09/2021
Date and details of revision	
Version number	1

Module aims

The module aims to introduce students to the theoretical, practical and professional aspects of the Biomedical & Life Sciences.

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

1	Describe the various health care professions, and identify the potential career pathways available to biomedical & life science graduates.
2	Describe the main disciplines of Biomedical Science (i.e. haematology, transfusion science, medical microbiology, virology, clinical biochemistry, histology, immunology and cytology).
3	Describe the structure and function of various professional regulatory bodies, such as the IBMS and HCPC.
4	Demonstrate a good understanding of the Health & Safety at work legislation, Control of Substances Hazardous to Health (COSHH), Standard Operating Procedures (SOPs), Risk Assessments (RA) and United Kingdom National External Quality Assessment Service (UK-NEQAS), Medical Laboratory Accreditation (MLA).

Assessment

Indicative Assessment Tasks:

Assessment 1: Learning Log (60%, 2400 word equivalent), assessing aspects of learning outcomes 1-2.

Assessment 2: Student led presentations (40%, 1600 word equivalent), assessing aspects of learning outcomes 3-4.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1 & 2	Learning logs/journals	60%
2	3 & 4	Presentation	40%

Derogations

N/A

Learning and Teaching Strategies

The module will consist of a series of lectures, practical sessions, hospital visits, demonstrations and presentations. Additionally, students will be directed to sources of information on the university intranet (Moodle) and other internet sources.

Indicative Syllabus Outline

An introduction to Life & Healthcare Sciences and its role in modern medicine.

An introduction to Biomedical Science disciplines (i.e. haematology, transfusion science, medical microbiology, virology, clinical biochemistry, histology, immunology and cytology).

Laboratory practical sessions (e.g. Blood Transfusion; Histology).

Visits to NHS hospital pathology laboratories and talks from practising professional Biomedical Scientists.

Introduction to Health and Safety, Control of Substances Hazardous to Health (COSHH), and Standard Operating Procedures (SOP's).

Awareness of the importance of the Institute of Biomedical Science (IBMS) and other regulatory bodies such as the Health & Care Professions Council (HCPC), and United Kingdom National External Quality Assessment Service (UK NEQAS).

Awareness and understanding of Medical Laboratory Accreditation (ISO15189).

Career pathways for the graduate Biomedical & Life Scientist.

Indicative Bibliography:

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

Essential Reads

Pitt, S.J., & Cunningham J. M. (Latest Edition). *An introduction to biomedical science in professional and clinical practice* (Latest Ed.). Chichester, United Kingdom: Wiley-Blackwell.

Other indicative reading

Glencross, H., Ahmed, N., & Wang, Q. (2016). *Biomedical science practice*. Oxford, United Kingdom: Oxford University Press. Illes, R.K., & Docherty, S.M. (Latest Edition).

Illes, R. and Docherty, S. (2012). *Biomedical Sciences: essential laboratory medicine*. Chichester, United Kingdom: John Wiley & Sons, Ltd.

Kumar, P. & Clark, M. (2017). *Clinical Medicine*. 9th ed. Edinburgh, United Kingdom: Elsevier Saunders Ltd.

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. [Click here to read more about the Glyndwr Graduate attributes](#)

Core Attributes

Engaged
Creative
Enterprising
Ethical

Key Attitudes

Commitment
Curiosity
Resilience
Confidence
Adaptability

Practical Skillsets

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