

Module Descriptor

Title	Principles of Infection and Disease Control					
Session	2024/25	Status	Published			
Code	BIOL11022	SCQF Level	11			
Credit Points	20	ECTS (European Credit Transfer Scheme)	10			
School	Health and Life Sciences					
Module Co-ordinator	William Gordon Mackay					

Summary of Module

This module will provide students with the opportunity to gain critical analytical skills in Infection and Disease Control. It aims to provide underpinning specialised knowledge of routes of infection and standard infection control precautions, including a detailed analysis of vaccination programmes, how vaccination works and its limitations and its impact. Discussions will emerge on topics such as tropical diseases (eg. Malaria, Ebola, Zika), seasonal epidemics (flu, norovirus) and antimicrobial resistance, and also on Public Health success stories, such as the eradication of smallpox, and how these have been influenced by health inequalities. Students will be invited to carry out an independent case study after specific timetabled tutorials on 'how to write a case study' on topics of their choice.

Module Delivery Method	On-Campu	ıs¹	Hybrid²			Work -Based Learning⁴	
Campuses for Module Delivery	Ayr Dumfries	6	Lanarks London Paisley	don		ning	Distance
Terms for Module Delivery	Term 1		Term 2		Term	3	

¹ Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

² The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

³ Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

⁴ Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Long-thin Delivery	Term 1 –	Term 2 –	Term 3 –	
over more than one	Term 2	Term 3	Term 1	
Term				

Lear	ning Outcomes
L1	Investigate the principles of the infection control process using the current literature in public health.
L2	Critically evaluate historical case studies of infection control and management.
L3	Apply the principles of vaccination to different types of infection (bacterial, viral, parasitic).
L4	Critically evaluate vaccination programmes and how they have been used effectively to prevent and manage infections, and their limitations.
L5	

Employability Skill	s and Personal Development Planning (PDP) Skills
SCQF Headings	During completion of this module, there will be an opportunity to achieve core skills in:
Knowledge and Understanding (K and U)	Please select SCQF Level 11
Practice: Applied Knowledge and Understanding	Please select SCQF Level 11
Generic Cognitive skills	Please select SCQF Level 11
Communication, ICT and Numeracy Skills	Please select SCQF Level 11
Autonomy, Accountability and Working with Others	Please select SCQF Level 11

Prerequisites	Module Code	Module Title
	Other	
Co-requisites	Module Code	Module Title

Learning and Teaching

In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours.

This module is a collaborative endeavour. It consists of blend lectures, aimed at setting the scene, tutorials and self-directed study, where students are responsible for the planning and implementation of the case study work (in consultation with staff members). Students will write their own case study using examples from the literature (for example the peer-reviewed literature, WHO, CDC, ECDC etc). The case study will be presented in a written report in the

format of a WHO case study, and students will present their vaccine work as a poster presentation.

Learning Activities	Student Learning Hours
During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	(Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture / Core Content Delivery	15
Tutorial / Synchronous Support Activity	14
Laboratory / Practical Demonstration / Workshop	7
Independent Study	164
Please select	
Please select	
TOTAL	200

Indicative Resources

The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Heymann D (2014). Control of Communicable Diseases Manual. 20th edition. Alpha Press.

Halloran ME, Longini Jr IM, Struchiner CJ (2010). Design and analysis of vaccine studies. Springer.

Abbas AK, Lichtman AH, Pillai S (2012). Basic immunology: functions and disorders of the immune system. 4th edition. Saunders.

Access to library; peer-reviewed journals, WHO case studies, CDC and ECDC materials

(N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements

In line with the <u>Student Attendance and Engagement Procedure</u>, Students are academically engaged if they are regularly attending and participating in timetabled oncampus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this module, academic engagement equates to the following:

For the purposes of this module, academic engagement equates to the following: Attendance at synchronous sessions: lectures, workshops, and tutorials, completion of asynchronous activities, and submission of assessments to meet the learning outcomes of the module.

Equality and Diversity

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality, Diversity and Human Rights Code.

In line with current legislation (Equality Act, 2010) and the UWS Equality, Diversity, and Human Rights Code, our modules are accessible and inclusive, with reasonable adjustment for different needs where appropriate. Module materials comply with University guidance on inclusive learning and teaching, and specialist assistive equipment, support provision and adjustment to assessment practice will be made in accordance with UWS policy and regulations. Where modules require practical and/or laboratory based learning or assessment required to meet accrediting body requirements the University will make reasonable adjustment such as adjustable height benches or assistance of a 'buddy' or helper.

(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	Biological Sciences Health
Overall Assessment Results	☐ Pass / Fail ⊠ Graded
Module Eligible for Compensation	☐ Yes ☐ No If this module is eligible for compensation, there may be cases where compensation is not permitted due to programme accreditation requirements. Please check
	the associated programme specification for details.
School Assessment Board	Biological Sciences and Health
Moderator	Fiona Menzies
External Examiner	Philip Anyanwu
Accreditation Details	
Module Appears in CPD catalogue	☐ Yes ⊠ No
Changes / Version Number	1.07

Assessment (also refer to Assessment Outcomes Grids below)
Assessment 1
Case study 60%
Assessment 2
Poster presentation 40%
Assessment 3
(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed.
(ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Component 1							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
Case study						60	

Component 2							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
Presentation						40	
	-						
Component 3							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
	Coml	oined to	tal for a	ll comp	onents	100%	hours
Change Control What				Wh	en	Who	