Session: **Session 2023/24**

Title of Module: Epidemiology			
Code: BIOL11030	**SCQF Level: 11 (Scottish Credit and Qualifications Framework)**	**Credit Points: 20 ECTS**	**ECTS: 10 (European Credit Transfer Scheme)**
School:	School of Health and Life Sciences		
Module Co-ordinator:	Dr Ngozi Amaeze		

Summary of Module

The module aims to introduce students to the principles of epidemiology, study designs and analysis with critical evaluation of theories, concepts, and principles and apply them to real-world problems. Key topics include data ethics, measures of disease frequency, distribution, and determinants of disease. Population health indicators and research methodologies such as cross-sectional and intervention studies will be explored. Students will gain experience on planning and evaluating strategies to prevent disease and promote public health.

The module will support critical thinking through debate, with a focus on developing a systemic approach to health interventions that can benefit public health during future pandemics. Overall, the goal is to prepare students from all backgrounds to collaborate and engage with communities, stakeholders, and policymakers in promoting health and disease prevention.

Module Delivery Method

Face-To-Face	**Blended**	**Fully Online**	**HybridC**	**Hybrid 0**	**Work-Based Learning**
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See Guidance Note for details.

Campus(es) for Module Delivery

The module will **normally** be offered on the following campuses / or by Distance/Online Learning: (Provided viable student numbers permit) (tick as appropriate)

Paisley:	Ayr:	Dumfries:	Lanarkshire:	London:	Distance/Online Learning:	Other:
			☒			

Term(s) for Module Delivery					
(Provided viable student numbers permit).					
Term 1		Term 2	☒	Term 3	

Learning Outcomes: (maximum of 5 statements) **These should take cognisance of the SCQF level descriptors and be at the appropriate level for the module.** At the end of this module the student will be able to:	
L1	Demonstrate a critical understanding of principle theories, concepts, and principles of epidemiology.
L2	Analyse and interpret epidemiological data to identify patterns of disease frequency, distribution, and determinants of disease
L3	Demonstrate knowledge of data ethics, sources, and epidemiology's diverse uses in informing decisions on infectious/non-communicable diseases
L4	Critically review and analyse developments in chronic disease testing and immunisation's role in preventing and controlling infectious diseases, including recommended schedules and products
L5	Demonstrate knowledge of the nature and management of pandemics, including appropriate planning and response

Employability Skills 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)	SCQF Level **11** Demonstrate a critical understanding of epidemiological methods, analyse data to study disease patterns, evaluate theories, and devise innovative public health strategies for complex real-world challenges.
Practice: Applied Knowledge and Understanding	SCQF Level **11** Apply epidemiological principles to real-world scenarios, engaging in critical thinking to develop a systemic approach to health interventions
Generic Cognitive skills	Develop original and creative responses in the context of epidemiology, enabling them to address complex issues and make informed judgments based on forefront developments.
Communication, ICT and Numeracy Skills	Undertake critical evaluations of a wide range of numerical and graphical data and communicate effectively in writing reports and orally with peers/more senior colleagues.

Autonomy, Accountability and Working with others	Exercise autonomy in their research, and engage in collaborative teamwork with colleagues, managing complex health issues to achieve public health goals effectively.	
Pre-requisites:	Before undertaking this module the student should have undertaken the following: None	
	Module Code:	**Module Title:**
	Other:	
Co-requisites	**Module Code:**	**Module Title:**

*Indicates that module descriptor is not published.

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.	
Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	**Student Learning Hours** (Normally totalling 200 hours): (Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture/Core Content Delivery	24
Tutorial/Synchronous Support Activity	12
Personal Development Plan	6
Independent Study	158
	Hours Total 200
****Indicative Resources: (eg. Core text, journals, internet access)**	

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

Robert, H. (2018) *Epidemiology 101:* 2nd edn. Burlington: Jones & Bartlett Publishers

Rothman, K.J. (2012). *Epidemiology: an introduction*. 2nd edn New York: Oxford university press.

Szklo, M. and Nieto, F.J. (2019) *Epidemiology: beyond the basics*. 4th edn. Burlington: Jones & Bartlett Publishers.

(**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 Student Attendance and Engagement Procedure: Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

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.

(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 and Health
Assessment Results (Pass/Fail)	No
School Assessment Board	L7-11
Moderator	Angela Beggan
External Examiner	P Anyanwu
Accreditation Details	NA

Changes/Version Number	1.0

Assessment: (also refer to Assessment Outcomes Grids below)
Assessment 1 – Course work (40%) will be composed of 2 essays (a)Critical analysis and opinion essay (20%) (b) Theoretical and process essay (20%).
Assessment 2 – Presentations (40%) will be composed of 2 presentations. Group presentation – a skills development and role play activity (20%) Individual presentation (20%)
Assessment 3 – Class test (20%)
(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.)

Assessment Outcome Grids (See Guidance Note)

Component 1							
Assessment Type (Footnote B.)	**Learning Outcome (1)**	**Learning Outcome (2)**	**Learning Outcome (3)**	**Learning Outcome (4)**	**Learning Outcome (5)**	**Weighting (%) of Assessment Element**	**Timetabled Contact Hours**
Essay			x		x	40%	

Component 2							
Assessment Type (Footnote B.)	**Learning Outcome (1)**	**Learning Outcome (2)**	**Learning Outcome (3)**	**Learning Outcome (4)**	**Learning Outcome (5)**	**Weighting (%) of Assessment Element**	**Timetabled Contact Hours**
Presentation				x	x	40%	

Component 3							
Assessment Type (Footnote B.)	**Learning Outcome (1)**	**Learning Outcome (2)**	**Learning Outcome (3)**	**Learning Outcome (4)**	**Learning Outcome (5)**	**Weighting (%) of Assessment Element**	**Timetabled Contact Hours**
Class test	x	x				20%	
					Combined Total for All Components	**100%**	**0 hours**