

Module Details	
Module Title	Applied Epidemiology
Module Code	HWS5017-B
Academic Year	2020/1
Credits	20
School	School of Nursing and Healthcare Leadership
Subject Area	Health, Well-Being and Social Care
FHEQ Level	FHEQ Level 5
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Independent Study	152
Learning Objects Interaction	22
Online Lecture (Synchronous)	24
Online Tutorials (Synchronous)	2

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year

Module Aims
To provide students with an applied understanding of epidemiological health indicators, study designs, and statistical aspects of epidemiological studies.

Outline Syllabus
Sources of routine Public Health Data (census, vital statistics, mortality and morbidity statistics); epidemiological study designs (cross-sectional surveys, intervention studies, cohort studies and case-control studies); measures of disease frequency (incidence, prevalence, crude and specific rates, standardisation, relative and attributable risk, odds ratios); bias and confounding in epidemiological research, sensitivity, specificity; evaluation of population screening process; the impact of epidemiology on national and local policy; the influence of epidemiology on ethical and professional issues.

Learning Outcomes	
Outcome Number	Description
01	Discuss the contribution that the discipline of epidemiology makes to informing public health policies and practices;
02	Discuss ways of expressing health risk, occurrence of illness, and associated factors, including standardization;
03	Demonstrate an understanding of various approaches of epidemiological study designs and the advantages and disadvantages of each approach;
04	Apply relevant principles of epidemiological practice to evaluate the health of populations and communities;
05	Explain approaches for dealing with confounding and bias in epidemiological studies and population health screening;
06	Apply epidemiological information and data gathered from a range of sources;

Learning, Teaching and Assessment Strategy
The module will be delivered using a mixture of scheduled online and asynchronous activities. Teaching will include key lectures, seminars, directed study, and tutorials. Research informed key lectures, seminars, group work and individual tutorials providing students with the opportunity to acquire the information in order to enhance their knowledge in relation to interpreting epidemiology studies (LO 1, 2, 3, 4, 5). Use will be made of the VLE to complement technology enhanced learning in the classroom and will provide access to relevant web sites and e-learning resources (LO 1, 2, 3, 4). Case scenarios/studies will enable students to explore, interpret and evaluate outcomes of health needs assessments and community profiles (LO 1, 2, 3, 4). Directed study will enable students to develop and expand their knowledge and understanding by undertaking reading of key texts to support preparation for the summative assessment by open book exam (LO 1, 2, 3, 4, 5, 6). Formative assessment will be provided by revision and mock exam practice and feedback will be available at individual and group tutorials. Open book examination ? 2 hrs

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Examination - Open Book	Open Book Examination	2 hour	100%
Formative	Examination - Open Book	Mock open book examinations	various	N/A

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.

