

Module Details				
Module Title	Epidemiology, Biostatistics and Communicable Diseases			
Module Code	NUR7069-C			
Academic Year	2021/2			
Credits	30			
School	School of Nursing and Healthcare Leadership			
FHEQ Level	FHEQ Level 7			

Contact Hours					
Туре	Hours				
Directed Study	251				
Laboratories	12				
Lectures	32				
Online Tutorials (Synchronous)	5				

Availability				
Occurrence	Location / Period			
BDA	University of Bradford / Semester 2			

Module Aims

To enable the student to develop the theoretical knowledge base and practical skills required to interpret research evidence from quantitative study designs, with a focus on epidemiological research and communicable disease control.

To undertake statistical analyses for relatively simple study designs.

Outline Syllabus

Epidemiology - definition and example of landmark studies.

Communicable disease control.

Impossibility of 'proof' and association and causation.

Characteristics of epidemiological study designs.

Bias, confounding, stratification and effect modification.

Descriptive and inferential statistics.

Effect size estimation - point estimates and confidence intervals.

Analysis methods for quantitative and categorical data.

Statistical significance v. clinical importance.

Principles of sample size estimation.

Learning Outcomes				
Outcome Number	Description			
O1	Critically research and analyse the fundamental principles of epidemiological study design, communicable disease control and statistical data analysis.			
02	Critically appraise published epidemiological research.			
03	Critically interpret statistical analyses reported in published research.			
04	Undertake data management tasks and statistical data analysis on primary research data.			

Learning, Teaching and Assessment Strategy

Using a blended learning approach research informed key lectures will deliver core content; providing students with opportunity to acquire knowledge on the principles of epidemiology, statistics and communicable disease control (LO: 1, 2, 3, 4).

Group discussions will enable students to apply this learning to their own role and engage in critical debate, self-reflection and critical evaluation of the key issues associated with designing epidemiological studies, controlling communicable diseases and interrogating public health data sets (LO: 1, 2, 3, 4).

On line blended learning and tutorials will be used to facilitate teacher/learner/peer dialogue and interprofessional discussion to further develop and challenge conceptual understanding through reflection and analysis of epidemiological research and statistical data (LO: 1, 2, 3, 4).

Directed study provides students with opportunity to undertake reading, participate in enquiry based on line learning, address individual learning needs and contextualise learning to the students own area of practice. They will further develop their own portfolio of learning which will enhance transferable skills and knowledge related to the enhancement of statistical analysis, designing epidemiological studies and controlling diseases outbreak (LO: 1, 2, 3, 4).

The VLE will be used to support on line blended learning and provide access to online resources, lecture notes and external links to websites of interest (LO: 1, 2, 3, 4).

Formative assessment and feedback will be provided at individual tutorials, meetings and through electronic communication to facilitate reflection and student self-assessment.

Closed book unseen examination.

Mode of Assessment					
Туре	Method	Description	Weighting		
Summative	Examination - Closed Book	Exam Closed Book (2 Hrs)	100%		
Formative	Examination - Closed Book	Closed Book Mock Exam.	N/A		
Formative	Examination - Closed Book	Formative assessment and feedback will be provided at individual tutorials, meetings and through electronic communication to facilitate reflection and student self-assessment.	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.

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