

Advanced Epidemiology

Module Code:	NUR7046-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Nursing and Healthcare Leadership
Subject Area:	Nursing
FHEQ Level:	FHEQ Level 7 (Masters)

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	30
Tutorials	20
Laboratory	10
Directed Study	140

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims

To develop the students' understanding of various specialist fields of epidemiology and of more complex analytical methods than those encountered in the module: Epidemiology and Biostatistics.

Outline Syllabus

Further study designs and data analysis methods: linear and generalized linear models; meta-analyses, survival analysis, random & mixed effects models (repeated measures, cluster trials), measures of diagnostic accuracy and agreement. An introduction to Bayesian analysis. Special topics - surveillance, health screening, infectious diseases, genetic epidemiology, reproductive / environmental / nutritional epidemiology.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 Understand the range of applications of epidemiological study designs in the furtherance of improvements in public health.
- 2 Interpret complex statistical analyses reported in published research.
- 3 Undertake statistical data analysis on primary research data using multivariable regression methods and other advanced/specialist methods.
- 4 Communicate complex issues in a clear way to a non-specialist audience.

Learning, Teaching and Assessment Strategy

Lectures & seminars will be used to introduce specialist topics in epidemiology and more advanced statistical data analysis methods. Tutorials and computer-based practical sessions will enable practical application of the skills developed, through critical appraisal and discussion of published research articles and through hands-on analysis of relevant data sets. Directed study will involve further such examples to enable students to develop their skills further through private study. In the tutorials and practical sessions, students will be encouraged to work collectively and collaboratively in small groups and feed back to the class and tutors. Formative feedback from tutors and peers will be integral to this experience. Assessment will comprise a critical appraisal of a published research paper, of the student's choice, in any area of epidemiology, enabling the student to apply their skills in an area of their interest.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	A critical appraisal of a published research paper, in the field of epidemiology, of the student's choice.	0 hours	100%	No

Legacy Code (if applicable)

HN-7001D

Reading List

To view Reading List, please go to [rebus:list](#).