uwe hartpury

MODULE CODE:	UIN XJD-10-3	**MODULE VERSION:** 2.1
MODULE TITLE:	EPIDEMIOLOGY	
LEVEL:	3	
UWE CREDIT RATING:	10	
ECTS CREDIT RATING:	5	
MODULE TYPE:	STANDARD	
OWNING FACULTY:	HARTPURY	
FIELD:	Animal and Land Sciences	
VALID FROM:	08 April 2009	
DISCONTINUED FROM:		
PRE-REQUISITES:	UIN XHE-20-2 (Applied Veterinary Science) *or* UIN XGR-20-1 (Introduction to Veterinary Nursing Science) *or* UIN XGC-20-1 (Introduction to Veterinary Science) *or* UIE XAA-20-1 (Equine Veterinary Science)	
CO-REQUISITES:	None	
EXCLUDED COMBINATIONS:	None	

LEARNING OUTCOMES:

At the end of this module the student should be able to:

A. Knowledge and understanding

1. Demonstrate the knowledge required to describe and measure the occurrence of disease in an animal population (A);
2. Demonstrate the knowledge required to describe the methods of disease transmission and the maintenance of infection (A);

B. Intellectual skills

1. Recognise the sources of epidemiological data and appropriate methods of collection (A);
2. Compare and contrast the patterns of disease within a population with particular reference to time and spatial trends (B);

C. Subject/professional and practical skills

1. Apply relevant analytical methods to numerical data and present it appropriately, being prepared to take a stance and defend it as necessary (B);

D. Transferable skills and other attributes

1. Demonstrate the ability to use a wide range of resources, including the internet, electronic journal databases and library catalogues to complete a detailed literature search on a given topic (B).
2. Communicate effectively in a high pressure environment (A).

SYLLABUS OUTLINE:

Disease occurrence: structure of populations, prevalence and incidence of disease. Morbidity and mortality rates

Disease transmission: horizontal and vertical, routes of infection, methods of transmission, survival of the infectious agent, prevention of infection

Patterns of disease: epidemic theory, time and spatial trends

Sources of data: data collection, cost, problems, farm records, zoos, government records, abattoirs, surveys, observation, etc.

Analytical methods

Presentation of data, including normal and binomial distribution etc.

TEACHING & LEARNING METHODS:

A variety of learning strategies will be used which may include lectures, self-directed study, practical exercises, tutorials, and e-learning.

READING STRATEGY:

Essential Reading

It is essential that students read one of the many texts on research methods available through the Library. Module guides will also reflect the range of reading to be carried out.

Further Reading

Students are expected to identify all other reading relevant to their chosen research topic for themselves. They will be encouraged to read widely using the library catalogue, a variety of bibliographic and full text databases, and Internet resources. Many resources can be accessed remotely.

Access and Skills

The development of literature searching skills is supported by the Library seminar within the induction period and by the Graduate Development Programme at level three. These level three

skills will build upon skills gained by the student whilst studying at levels one and two. Additional support is available through iSkillZone. This includes interactive tutorials on search skills and on the use of specific electronic library resources. Sign up workshops are also offered by the Library.

Indicative Reading List

The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. However, as indicated above, CURRENT advice on readings will be available via the module handbook.

Greenfield, T., ed. (Current Edition) *Research methods.* London: Arnold.

Smith, R.D. (Current Edition) *Veterinary clinical epidemiology.* Florida: CRC Press.

Thrusfield, M. (Current Edition) *Veterinary epidemiology.* Oxford: Blackwell Science Ltd.

Websites and databases:

The above sources give an indication of the area of study involved. Although students may be directed to some specific titles, they will also be encouraged to identify other relevant material for themselves.

Module Name **Epidemiology**
Module Code **UIN XJD-10-3**

ASSESSMENT

In line with the College's commitment to facilitating equal opportunities, a student may apply to the Learning Teaching and Assessment Committee (LTAC) for alternative means of assessment if appropriate. Each application will be considered on an individual basis taking into account learning and assessment needs. For further information regarding this please refer to the Virtual Learning Environment (VLE).

Weighting between components A and B (standard modules only) **A: 50%**
B: 50%

FIRST ATTEMPT
First Assessment Opportunity
Description of assessment elements

Component A	**Type**	**Length**	**Element Weighting**
1	Examination	1.5 hours	100%
Component B			
1	Case study	1500 words	100%

FIRST ATTEMPT
Second Assessment Opportunity
Further attendance at taught classes is not required
Description of assessment elements

Component A	**Type**	**Length**	**Element Weighting**
1	Examination	1.5 hours	100%
Component B			
1	Case study	1500 words	100%

SECOND (or subsequent) ATTEMPT
Attendance at taught classes is not required for a second or subsequent attempt

Specification confirmed by:

Role: Associate Dean

Date: 08/04/09