



<b>15. Relevant QAA subject benchmark group(s)</b>	N/A
<b>16. Reference points</b>	
N/A	
<b>17. Educational aims of programme</b>	

Consistent with the [Framework for Higher Education Qualifications](http://www.qaa.ac.uk/Publications/InformationandGuidance/Documents/FHEQ08.pdf) (http://www.qaa.ac.uk/Publications/InformationandGuidance/Documents/FHEQ08.pdf) at Masters level (level 7) , this course will provide students with an understanding of the conceptual basis of epidemiology and with training in essential methodological skills for the design, conduct, analysis, interpretation and communication of epidemiological studies, surveillance and disease control in animal and human populations.

On completion of the MSc and PG Diploma course, students will be able to:

- demonstrate a profound understanding of epidemiology as the study of patterns and factors that affect health and welfare in animal and human populations;
- recognise the importance of related disciplines and methods such as economics and mathematical modelling and how they contribute to epidemiology, with the opportunity to learn and apply these;
- demonstrate advanced knowledge and understanding of the role of epidemiology, the major health issues in both human and animal populations and the contribution of epidemiology to other health related disciplines;
- select an appropriate study design when confronted with an epidemiological research question and develop a study protocol capable of answering the research question;
- enter and manage computerised epidemiological data and carry out appropriate statistical analyses;
- assess the results of epidemiological studies (their own or other investigators'), including critical appraisal of study question, study design, methods and conduct, statistical analysis and interpretation;

**18. Programme outcomes - the programme offers opportunities for students to achieve and demonstrate the following learning outcomes.**

**A. Knowledge and understanding of:**

Demonstrate a profound understanding of epidemiology as the study of patterns and factors that affect health and welfare in animal and human populations  
the role of epidemiology, the major health issues in both human and animal populations and the contribution of epidemiology to other health related

**C. Practical skills:**

Entering and managing computerised epidemiological data  
carrying out an independent research project, writing the results in the form of a journal article and defending a project orally\*\*

Adapting locally available raw materials, conditions, rules and management structure to optimise animal health and production

Scientific skills, including critical review of the scientific literature

Decision making skills to analyse animal health problems at farm and national level.

**Teaching/learning methods:**

Students learn practical skills through active participation in:

practical classes  
individual research project\*\*

**Assessment:**

coursework  
research project report\*\*  
oral examination\*\*

**D. Key skills:**

integration skills  
communication skills  
group work skills  
personal skills  
interpersonal skills  
organisational skills  
learning skills  
information gathering and analytical skills  
problem solving skills

<p>which is worth a total of 60 credits.</p> <p><b>Optional units for MSc &amp; PG Diploma (stand-alone and exit award). These units are not assessed and do not carry credits:</b></p> <p>Epidemiology and -omics, Global Health Lecture Series(recommended)</p>	<p>Each of the term 2 modules will be worth 15 credits.</p> <p><b>Optional units for MSc &amp; PG Diploma (stand-alone and exit award). These units are not assessed and do not carry credits:</b></p> <p>Global Health Lecture Series (recommended)</p>	<p>with the guidance of a member of staff. The research project is worth 45 credits.</p>
<p><b>20. Work Placement Requirements</b></p>		<p>N/A</p>

**ASSESSMENT**  
See Modular Assessment and Award Regulations Annex A