15. Relevant QAA subject benchmark group(s)	N/A

16. Reference points

N/A

17. Educational aims of programme

Consistent with the Framework for Higher Education Qualifications (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 disciplines

design and implementation of epidemiological studies

how to 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

application of epidemiological principles to disease control.

carrying out appropriate statistical analysis of epidemiological data

carrying out an independent research project, writing the results in the form of a journal article and defending project orally

communicating effectively with researchers from different disciplinary backgrounds, and with people who have an interest in human and animal health, including the general public and key policy makers

Teaching/learning methods:

Students acquire knowledge and understanding through participation in:

lectures
practical classes
multidisciplinary group work
assignments
problem-solving sessions
organised visits to sites of special interest off campus

Assessment by:

coursework
written examinations
research project report**
oral examination**

B. Cognitive (thinking) skills:

A

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

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

ASSESSMENT

See Modular Assessment and Award Regulations Annex A