

MSc degrees, Postgraduate Diplomas and Postgraduate Certificates in Livestock Health and Production and in Veterinary Epidemiology and Public Health

This booklet contains the Regulations for the MSc degrees, Postgraduate Diplomas and Postgraduate Certificates in Livestock Health and Production and Veterinary Epidemiology and Public Health and for the short courses that are derived from these awards. The booklet is divided into two parts as shown below – the Regulations for the awards and the Regulations for short courses.

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The Awards

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the Postgraduate Certificate in Veterinary Epidemiology and Public Health and. . . .

3. Rules of progression

3.1 In any one year, students registered for a Postgraduate Certificate, Postgraduate Diploma or MSc degree may study and be examined in a minimum of **one** course and a maximum of **four** courses, excluding re-sits.

3.2 A student with an effective date of registration of **1 January 11 or before** is strongly advised to study one or more of the compulsory core courses before taking any optional courses for the Postgraduate Certificate, Postgraduate Diploma and MSc degree.

3.3 A student with an effective date of registration of **1 January 11 or after** must successfully pass the assessment in the core courses for the Postgraduate Certificate, Postgraduate Diploma and MSc degree prior to commencing the assessment in the optional courses for the Postgraduate Certificate, Postgraduate Diploma and MSc degree.

Students registered for a Postgraduate Certificate

3.4 In order to be able to progress from the Postgraduate Certificate in Livestock Health and Production to the Postgraduate Diploma or MSc degree in Livestock Health and Production or from the Postgraduate Certificate in Veterinary Epidemiology and Public Health to the Postgraduate Diploma or MSc degree in Veterinary Epidemiology and Public Health, students must normally obtain a pass at the required level (see Schedule C) in each of the **two** Postgraduate Certificate courses and receive a recommendation from the Examiners that they may proceed to the remaining courses of the respective diploma or degree.

3.5 In the circumstances of paragraph 3.3 the Examiners may also recommend, if they think it appropriate, that a student who progresses from a Postgraduate Certificate to a Postgraduate Diploma or an MSc degree, may hold the pass at the Postgraduate Certificate to his or her credit in the event that he or she does not subsequently satisfy the Examiners in the remaining courses of the Postgraduate Diploma or MSc degree. If the student should be successful at the remaining courses, the pass at the Postgraduate Certificate examination will no longer be valid and the Postgraduate Diploma or MSc degree will be awarded. If the student should fail, or not complete, the remaining courses, he or she will be awarded the relevant Postgraduate Certificate with effect from the year in which the Postgraduate Certificate examination was passed.

3.6 A student who accepts the award of the Postgraduate Certificate will not be permitted to re-register for a Postgraduate Diploma or an MSc degree at a later date. Students, who have completed the Postgraduate Certificate and received an invitation to transfer, but do not make a decision on award or transfer within the R17 9 Tf 97.60an preedetba mai s444.001-3.47856(a)3.72.538774727(e)3.74594(,c) degntgrvegr

Students registered for a short course

3.13 All students will be required to complete the examination for the relevant 240 hour short course irrespective of the number of 50 hour short courses previously taken. A transfer fee will be payable.

3.14 There is no direct progression to the MSc degree, Postgraduate Diploma or Postgraduate Certificate from the **hour** short courses.

3.15 Students who successfully complete the assessment for a maximum of two of the **hour short courses** may be considered for progression to the following related awards:

- $r d \quad r c \quad n L. \triangleright c \quad n d$
- $r d c n \quad \blacktriangleright \quad n L. \triangleright c \quad n d$
- $r d c n$
- $M c d r \quad n L. \triangleright c \quad n d \quad r d c n$
- $r d \quad r c \quad n \downarrow \quad r n r y \quad d \quad y$
- $n d \quad c$
- $r d \quad \blacktriangleright \quad n \downarrow \quad r n r y \quad d \quad y \quad n d$
- c
- $M c d r \quad n \downarrow \quad r n r y \quad d \quad y \quad n d \quad c$

3.16 Students who are permitted to progress may be rprogromiology and Public

studied in the first year. To be registered, a student must pay at the same time both the registration fee and the fee for at least **one** course. In subsequent years, only the fees for any new courses are payable.

8.3 The fees for 2011 are as follows:

MSc	Total fee	£9,425
PG Diploma	Total fee	£5,600
PG Certificate	Total fee	£2,945
Registration fee (MSc)		£1,240
Registration fee (Diploma)		£930
Registration fee (Certificate)		£620
Course fee (MSc/Diploma/Certificate)		£1,240

Students intending to study the optional module *Advanced GIS* (course code: 6670013) will require access to Arc View 9.0 GIS software, plus the extensions, Spatial Analyst and 3D Analyst. The cost of the GIS software is NOT included in your course fee and you will need to purchase it if you do not have access to it. If you would like to purchase the software, please contact ESRI via the following website: <http://www.esri.com/company/locations.html> and select your country of residence from the drop-down menu.

You may be eligible for a student discount, therefore please supply full details of the course you are intending to study. To verify your registration at the External System, the following email address may be used: pg.registration@london.ac.uk

Refunds

8.9 Registration fees will not be refunded except as provided:

If a student dies, or is prevented from pursuing his or her studies through a disabling illness, or that of a near relative for whose care he or she is responsible, a proportion of the registration fee which has been paid may be refunded at the discretion of the University provided that:

- the application is made within two years of the effective date of the student's registration
- no entry has been made to an examination for an MSc degree, a Postgraduate Diploma or a Postgraduate Certificate
- such medical or other evidence as may be required is submitted.

8.10 A refund of course fees will be given where the fee has been paid but no study materials have been despatched. Any refund may be subject to an administrative charge determined by the University (currently £50)

Schedule A / Structures

Livestock Health and Production

Postgraduate Certificate

Notes:

- Students with a registration date of 1 January 2011 onwards must successfully pass the assessment in the

MSc

Three compulsory core courses:

Animal Disease and Control ;
Diagnostic Microbiology ;
Antimicrobial Pharmacology ;

+

Four optional courses chosen from:

Animal Health and Welfare ;
Control of Infectious Diseases ;
Diagnostic Microbiology ;
Management of Infectious Disease Outbreaks in Animal Populations ;
Antimicrobial Pharmacology ;
Control of Infectious Diseases ;
Diagnostic Microbiology ;
Antimicrobial Pharmacology ;
Control of Infectious Diseases ;
Diagnostic Microbiology ;
Antimicrobial Pharmacology ;

Notes:

- Students with a registration date of 1 January 2011 onwards must successfully pass the assessment in the core courses prior to commencing the assessment in the optional courses.
- the optional course, Animal Disease part II (Infectious and production diseases – a species approach [667 0008], is no longer available to study, however, a re-sit exam will be available in 2011 if required. The module, Management of Infectious Disease outbreaks in animal populations [667 0017], is the replacement for this course.
- the examination numbers have been appended to the course titles and these numbers should be used when completing examination entry forms.

Veterinary Epidemiology and Public Health

Postgraduate Certificate

Postgraduate Diploma

MSc

Three compulsory core courses:

d y n d n c n c

+

Notes:

- Students with a registration date of 1 January 2011 onwards must successfully pass the assessment in the core courses prior to commencing the assessment in the optional courses.
- † Students intending to study this optional module will require access to Arc View 9.0 GIS software, plus the extensions, Spatial Analyst and 3D Analyst. The cost of the GIS software is NOT included in your course fee and you will need to purchase it if you do not have access to it. Please see Programme Regulations Paragraph 8.3 for further information.
- the examination numbers have been appended to the course titles and these numbers should be used when completing examination entry forms.

Management of infectious disease outbreaks in animal populations [667 0017]

This course will provide both the theoretical and practical information required for the management of a major infectious disease outbreak of farm animals.

c r

- Epidemiology of infectious viral diseases
- Risk and cost-benefit analysis
- Surveillance
- Diagnosis and vaccination strategies before and during an outbreak
- Contingency planning and case studies are used to illustrate how disease outbreaks could be better

Schedule C / Scheme of award

MSc degree, Postgraduate Diploma and Postgraduate Certificate
(240 hour and 50 hour short courses)

Mark range	
75+	Distinction
65-74	Merit
50-64	Pass
0-49	Fail

1. The award of the MSc degree, Postgraduate Diploma or Postgraduate Certificate is normally given on the basis the

Schedule D / Assessment criteria

<p>Poor answer</p>	<p>Selection and coverage of material Little information that is correct and relevant.</p> <p>Understanding If any, very limited evidence of understanding. There may be evidence of very limited wider reading of an appropriate nature.</p> <p>Structure clarity and presentation Poor.</p>	<p>Selection and coverage of material Incomplete or inaccurate account of task with inadequate description of aims and methods of practical work and containing significant, and/or a large number of, errors.</p> <p>Understanding If any, very limited evidence of understanding with many unexplained observations or assertions likely. Little or no evidence of original/innovative thinking. Very limited reference to published work from authoritative sources.</p> <p>Structure clarity and presentation Poor.</p>	<p>30</p>	<p>Fail</p>
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Clearly deficient answer

A r, r rn r nd r r n c n
 n n cc r c rr r n nd r nd n r n n
 nd rc nc n n r n, r y

	<p>Understanding Statements supported by facts but limited evidence of critical ability or powers of argument. Evidence of sufficient wider reading of an appropriate nature.</p> <p>Structure clarity and presentation In general, organised and logical presentation with adequate clarity of expression.</p>	<p>inaccuracies. Appropriate speculation is unlikely or, if present, is likely to be unsubstantiated.</p> <p>Understanding Limited evidence of original/innovative thought. Sufficient reference to published work from authoritative sources. Data are largely accurate but there may be some unexplained observations or assertions.</p> <p>Structure clarity and presentation Reasonably well organised and logically presented with adequate clarity of expression.</p>		
Very sound answer	<p>A r r r r n d r r n c n n n c c r c r r r n d r . d n c c r c y n d r r r n n d c r y r n . r y r . d n c d r r d n n r r n r .</p>	<p>A r r r r n d r r n c n n n c c r c r r r n d r . d n c c r c y n d r r r n n d c r y r n .</p>	58	Pass
Quite good answer	<p>A r r r r n d r r n c n n n c c r c r r r n d . d n c c r c y. r y . d n c d r r d n n r r n r .</p>	<p>A r r r r . d n c c r c d n n d r r r r n n n c c r c r r r . r y . d n c d r r d n r r r n c d r r r . r c .</p>	62	Pass
Good answer	<p>Selection and coverage of material Good coverage of relevant material and clear evidence of critical judgement in selection of information. Few or no significant omissions or errors.</p> <p>Understanding Thorough grasp of concepts and evidence of synthesis of information and critical ability. Evidence of sufficient or some more extensive, wider reading of an appropriate nature.</p> <p>Structure clarity and presentation Logical and organised structure with clarity of expression.</p>	<p>Selection and coverage of material Systematic and accurate account of task with full record of aims and methods of practical work and no significant errors or omissions. Some speculation, where appropriate, but may not be fully supported.</p> <p>Understanding Thorough grasp of concepts with reasonable comment on all observations with few unexplained findings or assertions. Some evidence of original/innovative thinking. Appropriate reference to published work from authoritative sources. Data manipulated and analysed correctly.</p> <p>Structure clarity and presentation Logical and well-organised account with clarity of expression.</p>	65	Merit
Very good answer	<p>A r r r r n d r r n c n n n c c r c r r r . M r . d n c c r c d n y . r y r . d n c d r r d n n r r n r .</p>	<p>A r r r r . d n c c r c d n n d r n d r n c n n n c c r c r r r . r y r . d n c d r r d n r r r n c d r r r . r c .</p>	68	Merit

Extremely good
answer

Selection and coverage of material

Question answered fully and accurately. Few errors and/or omissions and none of significance.

Understanding

Thorough grasp of concepts with evidence of powers of critical analysis, argument and original thinking. Evidence of extensive

Programme Regulations for Short Courses

These Programme Regulations apply to the short course programme that is related to the MSc degrees Postgraduate Diplomas and Postgraduate Certificates in Livestock Health and Production and Veterinary Epidemiology and Public Health

1. Introduction

1.1 The University offers individual courses of the MSc degree, Postgraduate Diploma and Postgraduate Certificate in Livestock Health and Production and the MSc degree, Postgraduate Diploma and Postgraduate Certificate in Veterinary Epidemiology and Public Health as credit and non-credit bearing short courses. Shorter stand alone courses which are non-credit bearing are also offered.

1.2 The rules governing this short course programme are given in both these Programme Regulations and the General Regulations for Short Courses that follow.

2. Short course programme of study

2.1 The following are offered as short courses:

hour non credit bearing short courses

- Introduction to statistics and hypothesis testing V D 1]
- Statistical aspects of study design and analysis of data V D]
- Principles of veterinary epidemiological investigations and some descriptive epidemiological methods V D]
- Design and analysis of epidemiological investigations observational studies V D]
- Design and analysis of epidemiological investigations intervention studies V D]
- Principles of farm animal economic analysis V D 6]
- Tools for economic analysis V D]
- Use of economic tools in epidemiology V D]
- Sampling in epidemiological investigations V D 9]
- Diagnostic decision making and making epidemiological disease and information management V D 1]
- An introduction to risk analysis and risk assessment V F 1]
- An overview of zoonotic diseases caused by parasites V F]
- An overview of zoonotic diseases caused by bacteria virus and rickettsia V F]
- Principles of food safety control and antibiotic resistance V F]
- Control of food safety red meat and poultry V F]
- Control of food safety eggs milk and milk products V F 6]
- Development of a disease control programme salmonella in pigs V F]
- Development of a disease control programme bovine TB V F]
-

**Schedule A / 240 hour short courses
with the corresponding 50 hour short courses**

240 hour short course code	240 hour short course title	50 hour short course code	50 hour short course title
667 0015	Surveillance and investigation of animal health	V50 100T	Advanced risk analysis using @RISK software
667 0015	Surveillance and investigation of animal health	V50 200T	Herd health management
667 0015	Surveillance and investigation of animal health	V50 300T	Animal disease surveillance
667 0015	Surveillance and investigation of animal health	V50 400T	Database management and analysis in animal health surveillance
667 0015	Surveillance and investigation of animal health	V50 500T	Disease modelling
667 0006	Veterinary public health	V50 100U	Introduction to veterinary public health, risk analysis and risk assessment

Note:

Students with an effective date of registration of 1 September 2010 or before only, may be considered for progression from the above 50 hour short courses to the specified, corresponding 240 hour short course.

Schedule B / Course outlines

35 hour short courses (non-credit bearing)

Animal transport and slaughter - critical welfare considerations [V35 A005]

In this course you will learn about the animal welfare issues involved in the handling, transport, and slaughter of livestock. You will learn about the behavioral principles of animal handling, animal welfare issues that arise during transport and the importance of well-designed and managed pre-slaughter handling systems. At the end of the course you will

**Statistical aspects of study design and
analysis of data [V35 D002]**

Database management and analysis in animal health surveillance [V50 400T]

In epidemiological investigations and disease surveillance, data is collected to describe patterns of disease or production measurements, or to investigate relationships between risk factors and outcome variables such as disease using statistical methods. In this course you will be introduced to different methods for organising your data in a database and how to extract tailored information from a database using queries. You will learn how to transfer data between database management systems, and how to manipulate data more efficiently by writing simple programmes to perform complex data queries that are not provided by standard database software.

A n n r n n n

Design and analysis of epidemiological investigations - observational and intervention studies [V50 300W]

This course will introduce you to observational and intervention studies that are conducted on populations. The course will demonstrate techniques for measuring association between disease and risk factors from these studies. You will learn about the subtle but important differences between the measures of association and the most suitable application for each measure. The strengths and weaknesses of these studies will be presented and the statistical testing requirements will be discussed.

A n n r n n n

Developm

**Quantitative aspects of diagnostic testing and
information management in epidemiological
investigations [V50 400W]**

- Analysis of cohort studies and case-control studies
- Likelihood, Multivariable analysis and statistical modelling
- Simple logistic model, Logistic regression, Poisson regression and Cox regression.

A n n r r n n r n r c n n n
y n d r r n r n n d r n
n n

Surveillance and investigation of animal health [667 0015]

This course will provide in-depth knowledge of qualitative and quantitative risk analysis, animal health surveillance programmes and introduce students to disease modelling.

- c r
- Qualitative and quantitative risk analysis
 - Design and evaluation of animal health surveillance and control programmes involving multiple herds
 - Disease control methods involving multiple herds
 - Farm-level animal disease and production surveillance
 - Disease modelling using Deterministic and Stochastic modelling.

A n n r r n n r n r c n n n
y n d r r n r n n d r n
n n

Sustainable livestock farming in the environment [667 0020]

This new course aims to provide an understanding of the threats presented by changes in the environment on livestock production and wildlife population, and explains the ways in which global and regional environmental change can impact on sustainability of farming systems, conservation of ecosystems and animal health. It will outline approaches that can be used to minimise unwanted environmental impacts of modern farming and land use systems, as well as consider the values academics, researchers, veterinarians and livestock specialists attach to the environment and to conservation issues. The course will also guide students in the approach they take in future when considering animal–environment interactions.

A n n r r n n r n r c n n n
y n d r r n r n n d r n
n n

Veterinary public health [667 0006]

The course will examine the role of veterinarians and other related professionals in the protection of human health through the safe production of foods of animal origin, control of zoonotic disease and environmental contamination.

- c r
- Disease surveillance recording and risk analysis
 - Zoonoses and their control
 - Disseminating information on veterinary public health
 - Quality and safety assurance in food production (meat, milk and eggs)
 - Development of disease control programmes

A n n r r n n r n r c n n n
y n d r r n r n n d r n
n n

Schedule C/ Assessment criteria

The assessment criteria for the 240 hour and 50 hour short courses is given in Schedule D of the Programme Regulations.

A short answer paper assessment for the 35 hour short courses will be marked out of 10 according to the following scheme:

Mark out of 10 (Tutor marked assignment)	Descriptor	Factual information and integration of knowledge	Understanding of concepts and critical ability	Presentation
10	Perfect	Factually flawless; excellent integration of knowledge	Full understanding; excellent critical ability	Excellent style and expression
9	Almost perfect	Factually, almost flawless; good integration of knowledge	Full understanding; good critical ability	Excellent style and presentation
8	Excellent: Distinction standard	Relevant factually information well covered and weighted appropriately; good integration of knowledge	Good understanding; good critical ability	Style and expression very good
7	Very Good: Merit Standard	Relevant factually information well covered; some integration of knowledge	Good understanding, good critical ability	Style and expression good
6	Convincing pass	Sufficient relevant factual information but lacking in depth; little or no integration of knowledge	Some understanding; moderate critical ability	Style and expression generally good
5	Minimum Adequate	Barely sufficient relevant factual information; no integration of knowledge	Some understanding; some critical ability	Style and expression adequate
4	Definite, but not bad failure	Some relevant factual information but lacking in breadth and/or depth; no integration of knowledge	Some limited understanding; no critical ability	Style and expression poor
3	Bad failure	Considerable defects in relevant factual information; no integration of knowledge	Considerable defects in understanding but not totally lacking; no critical ability	Style and expression