

MVetMed Programme Specification

Applies to cohort commencing 2013

1. Awarding institution	The Royal Veterinary College
2. Teaching institution	The Royal Veterinary College (University of London)
3. Programme accredited by	N/A
4. Final award	Master of Veterinary Medicine (MVetMed)
5. Programme Title	Senior Clinical Training
6. Date of First Intake	2008
7. Frequency of Intake	Annually
8. Duration of Study	3 full-time calendar years
9. Timing of Examination Board meetings	Annually
10. Date of Last Quinquennial Review	N/A
11. Date of Next Quinquennial Review	N/A [First cohort review 2011/12]
12. Entry Requirements	<p>A veterinary degree registrable with the RCVS and Membership of the RCVS or temporary Membership of the RCVS entitling the applicant to work in the RVC's hospitals. Must normally be a Clinical Training Scholar at the RVC.</p> <p>Completion of an appropriate internship programme or at least 12 months working in a relevant clinical or veterinary pathology environment</p> <p>Applicants from overseas will be required to provide evidence of proficiency in spoken and written English and will be required to achieve an overall score of 7.0 in IELTS with a minimum of 6.5 in each sub-test; or a TOEFL score of at least 93 (internet-based test), 580 (paper-based test) or 237 (computer-based test), plus 4.5 in the Test of Written English (TWE)/Essay rating.</p>
13. UCAS code	N/A
14. JACS Code	D200
15. Relevant QAA subject benchmark group(s)	N/A

16. Reference points

N/A

17. Educational aims of programme

The programme aims to produce graduates:

- eligible to sit examinations for European or American Veterinary Specialty Colleges
- with critical analysis skills and experience in conducting research projects
- with good communication and teaching skills, who are able to take advantage of current developments in information technology

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

A. Knowledge and understanding of:

- their clinical discipline
- the pathophysiological principles behind their clinical area of study
- related clinical disciplines
- clinical research methodology
- statistical analysis of clinical or laboratory data
- ethical and welfare issues relating to clinical practice, teaching and research
- new developments in the relevant area of clinical expertise

Teaching/ learning methods

Participation in:

- Management of clinical cases under supervision
- Clinical rounds
- Speciality journal clubs

Formative assessment by:

- Continuous assessment of case management (on a daily basis) by senior clinicians/ pathologists
- Review by senior clinician/pathologist of owner and/or referring vet communication documents
- Continuous assessment of participation in clinical/pathology rounds by senior clinicians/pathologists
- Assessment of contributions to graduate seminars by senior clinicians/pathologists on a weekly basis
- Assessment of participation in journal and text reviews by senior clinicians/pathologists
- Oral presentations to the relevant Department on an annual basis
- Annual appraisal by clinical / pathology and research supervisors

Summative assessment by:

- Written examinations for the taught component of each module (MCQ, EMQ, essays, practical spot-test exams)
- Assessment of the research project report by an internal and external examiner, with an oral defence

<ul style="list-style-type: none"> • Core taught modules • Elective taught modules • Required formative module 	
<p>B. Cognitive (thinking) skills:</p> <ul style="list-style-type: none"> • Planning • Logic • Comprehension • Visual and auditory processing • Study design and implementation <p>Teaching/ learning methods</p> <ul style="list-style-type: none"> • Management of clinical cases under supervision • Clinical rounds • Speciality journal clubs • Core taught modules • Elective taught modules • Required formative module 	<p>Formative assessment by:</p> <ul style="list-style-type: none"> • Continuous assessment of case management (on a daily basis) by senior clinicians/pathologists • Review by senior clinician/pathologist of owner and referring vet communication documents • Assessment of participation in clinical rounds by senior clinicians/pathologists • Assessment of contributions to Graduate seminars by senior clinicians/pathologists on a weekly basis • Assessment of participation in journal and text reviews by senior clinicians/pathologists on a weekly basis <p>Summative assessment by:</p> <ul style="list-style-type: none"> • Written examinations for the taught component of each module • Assessment of the research project report by an internal and external examiner, with an oral defence

C. Practical skills and Abilities

- Proficiency in dealing with complex clinical or diagnostic cases in a referral setting
- Diagnostic and therapeutic procedures at a referral level, and/or specialised laboratory techniques
- Organisational skills
- Interpersonal skills
- An ability to communicate clearly to both scientific and non-scientific personnel
- Presentation skills, including small group teaching and formal oral presentations
- Teaching and learning skills
- Information technology skills

Teaching/learning methods

- Management of clinical / diagnostic cases under the supervision of senior clinicians/pathologists
- Supervised participation in diagnostic and therapeutic techniques
- Participation in daily clinical/pathological rounds
- Participation in weekly Graduate seminars
- Participation in group review of journal articles and scientific texts
- Problem-solving exercises

Formative assessment by:

- Clinical case log
- Continuous assessment of case management (on a daily basis) by senior clinicians/pathologists
- Review by senior clinician/pathologist of owner and referring vet communication documents
- Continuous assessment of participation in clinical rounds by senior clinicians/pathologists
- Assessment of contributions to Graduate seminars by senior clinicians/pathologists on a weekly basis
- Assessment of participation in journal and text reviews by senior clinicians/pathologists on a weekly basis
- Oral presentations to the relevant Department on an annual basis

Summative assessment by:

- Written examinations for the taught component of each module
- Assessment of the research project report by an internal and external examiner, with an oral defence

- Attendance at Continuing Professional Development courses within the college
- Formal lectures within the taught component of the MVetMed programme at a level above undergraduate or Continuing Professional Development courses
- Attendance at Scientific conferences
- Preparation and delivery of oral presentations
- An individual research project

19. Programme structures and requirements, levels, modules, credits and awards

Students will

- be assigned to the clinic or diagnostic pathology duty rota and assume primary case responsibility under supervision. A case log will be kept of all cases managed, and case summaries will be written as part of the client and referring vet communication documents.
- participate in Department and speciality seminars and presentations
- participate in weekly journal and /or book review with senior clinicians/pathologists
- participate in weekly training sessions pertinent to chosen discipline

Research Project

Students will conduct a research project in the area of their choice over the three year programme, and produce a research poster, an oral presentation and a written research report in a format suitable for publication in a peer-reviewed journal.

Modules

Students will complete 10 modules to include a minimum of 5 core modules and up to 5 elective modules from the lists below and the required formative module.

Core modules

Applied Research Skills
 Applied Statistics and SPSS
 Describing and Interpreting Clinical Data

Elective modules

Didactic:

Advanced General Surgery

Ethics and welfare

Evidence Based Veterinary
Medicine

Information Technology skills for
Vets

Practical Veterinary Education

Compulsory Formative module

Scientific writing

Advanced Large Animal Medicine And Critical Care

Advanced Veterinary Gastrointestinal Pathophysiology

Anaesthesia

Basic Small Animal Echocardiography

Cardiac Pathophysiology

Clinical Pharmacology

Comparative Ophthalmology – Practical Assessment 1

Comparative Ophthalmology – Practical Assessment 2

ECG Interpretation

Emergency & Critical Care 1: Advanced Critical Care
Therapies

Emergency & Critical Care 2: Respiratory Focus

Emergency & Critical Care 3: Haemostasis And
Transfusion Medicine

Equine Ophthalmology

Equine Orthopaedic Surgery Skills

Equipment And Monitoring Used In Anaesthesia

Feline Cardiology

Laboratory Based Diagnostics For Farm Animal Diseases

Large Animal Respiratory Medicine

Musculoskeletal Pathophysiology & Locomotion

Neonatology And Paediatrics

Nephrology And Urology

Pathology Of The Haemopoietic And Lymphoreticular
Systems

Pathology Of The Respiratory Tract

Principles Of Veterinary Neurosurgery

Problem Solving In Veterinary Neurology

Skin At the frontier - the enemy without & within

Small Animal Surgery – Diagnostic Imaging

Systemic Veterinary Pathology 3

Systemic Veterinary Pathology 4

Veterinary Dermatopathology

Veterinary Neuroradiology

Critical Literature Reviews, Journal/Book Clubs

Advanced Large Animal Medicine And Critical Care

Anaesthesia And Analgesia Research Review

Bovine Health Management

Cardiac Pathophysiology Book Club

Comparative Ophthalmology – Journal Club

Comparative Ophthalmology – Veterinary Ophthalmology Book Club

Critical Literature Review In Anaesthesia

Critical Literature Review In Oncology

Critical Literature Review In Large Animal Surgery

Critical Literature Review In Large Animal Medicine

Critical Literature Review In Veterinary Clinical Pathology

Diagnostic Imaging Journal Club

General Pathology 1

General Pathology 2

Large Animal Diagnostic Imaging Journal Club

Oncology 1

Oncology 2

Problem Solving In Cancer Chemotherapy And Biotherapy

Problem Solving In Neurophysiology And

Neuropharmacy

Problem Solving In Veterinary Neuroanatomy

Small Animal Gastroenterology

Small Animal Surgery – Journal Club

Small Animal Surgery – Slatter Book Club & Practical Exam

Systemic Veterinary Pathology 1

Systemic Veterinary Pathology 2

Veterinary Dermatology Journal Club

Veterinary Pathology Journal Club

Clinical Rounds:

Clinical Pathology Rounds

CSF Cytology Rounds

Diagnostic Imaging Case Rounds

Equine Cytology Rounds

Large Animal Diagnostic Imaging Case Rounds

Neuropathology

20. Work Placement Requirements (BVetMed and FdSc only)

N/A

ASSESSMENT

21. Form of Examination

Examinations

- Written examinations associated with each module (format individualised by module: e.g. essays, MCQs, EMQs, spot tests, case reports)

Research project

- Formative feedback on a 300 word research abstract in year 1 as part of the appraisal form
- Formative feedback by the supervisor on a research poster presented in July (year 2)
- Formative feedback by the supervisor on an oral presentation of the results of the research project in year 3.
- Research project report written in the format of a paper suitable for publication in a peer-reviewed journal appropriate for their Specialty Board. This may include feedback from one or more co-authors, but should not include feedback from journal scrutineers. Hence the version of the manuscript submitted to the Exams Office must be the same as the initial version submitted for publication.
- Oral examination of research project at end of year 3

22. Marking Criteria

Plagiarism software will be used for all applicable written assignments

The College's common grading scheme is used for long written answers (e.g. essays, project reports):

<http://intranet.rvc.ac.uk/StudentsAndTeaching/MarkingSchemes.cfm>

The College's 0-10 scale may be used for assessments to which it is better suited (e.g. oral presentations):

http://intranet.rvc.ac.uk/StudentsAndTeaching/AAREgs2009_10/MarkingScheme_RVC.pdf

23. Allocation of Marks

50% Modules

50% Research Project

Module marking (total 50%)

Each module will be marked according to the College marking scheme depending on the type of assessment.

If more than 10 modules have been completed, the supernumerary elective modules with the lowest marks shall be discounted.

Research Project marking (total 50%)

Written research project (40%)

Supervisor assessment (5%)

Oral defence (5%)

24. Requirements to Pass Overall

Aggregated average mark of 50% for the 10 module assessments

And

Not less than 40% for the aggregated average mark of each individual module

And

Completion of the scientific writing module

And

A research report submitted by the due deadline before the final 3rd year oral defence

And

Aggregated average mark of 50% for the project assessments

And

Submit a portfolio containing year 1 and year 2 appraisal information, board credential submissions, and other evidence of scholarly activity conducted during the course

25. Consequences of Failure

A student who fails to receive a recommendation to continue to the following academic year at either the 1st or 2nd year annual appraisal will be considered to be 'on probation' for the next 3 months until progress is reviewed at a follow-up appraisal. The student will normally be referred to APRICOT at this stage. If satisfactory progress has not been achieved by the 3-month follow-up appraisal, the studentship will be terminated.

A student who has not achieved more than 40% in a module will be

	<p>given one further opportunity to pass that module, if timetabling allows, by attending the module for a second time and/or by resitting the end of module assessment. Alternatively a student who has not achieved more than 40% in a module will be able to attempt to pass a different module.</p> <p>A student who has achieved less than 50% in the research project will be given the opportunity to resubmit the following year.</p>
26. Classification	Distinction: 75% or more; Merit: 65-74%; Pass: 50-64%; Fail: less than 50%
27. Disclosure of Marks	Results will be published by candidate number
29. Dates of Examinations	Module examinations will be held at the end of each module. The final oral examination will be held in April/May of the 3rd year.
29. Date of production/revision	27/3/13 CRL