

## MVetMed Programme Specification and Assessment & Award Regulations

Applies to cohort commencing 2012

<b>1. Awarding institution</b>	The Royal Veterinary College
<b>2. Teaching institution</b>	The Royal Veterinary College (University of London)
<b>3. Programme accredited by</b>	N/A
<b>4. Final award</b>	Master of Veterinary Medicine (MVetMed)
<b>5. Programme Title</b>	Senior Clinical Training
<b>6. Date of First Intake</b>	2008
<b>7. Frequency of Intake</b>	Annually
<b>8. Duration and Mode(s) of Study</b>	3 full-time calendar years
<b>9. Timing of Examination Board meetings</b>	Annually
<b>10. Date of Last Quinquennial Review</b>	N/A
<b>11. Date of Next Quinquennial Review</b>	N/A [First cohort review 2011/12]
<b>12. Entry Requirements</b>	<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>
<b>13. UCAS code</b>	N/A

14. JACS Code	D200
15. Relevant QAA subject benchmark group(s)	N/A
<b>16. Reference points</b>	
N/A	
<b>17. Educational aims of programme</b>	
<p>The programme aims to produce graduates:</p> <ul style="list-style-type: none"> <li>• eligible to sit examinations for European or American Veterinary Specialty Colleges</li> <li>• with critical analysis skills and experience in conducting research projects</li> <li>• with good communication and teaching skills, who are able to take advantage of current developments in information technology</li> </ul>	
<b>18. Programme outcomes - the programme offers opportunities for students to achieve and demonstrate the following learning outcomes.</b>	
<p><b>A. Knowledge and understanding of:</b></p> <ul style="list-style-type: none"> <li>• their clinical discipline</li> <li>• the pathophysiological principles behind their clinical area of study</li> <li>• related clinical disciplines</li> <li>• clinical research methodology</li> <li>• statistical analysis of clinical or laboratory data</li> <li>• ethical and welfare issues relating to clinical practice, teaching and research</li> <li>• new developments in the relevant area of clinical expertise</li> </ul>	<p><b>Formative assessment by:</b></p> <ul style="list-style-type: none"> <li>• Continuous assessment of case management (on a daily basis) by senior clinicians/ pathologists</li> <li>• Review by senior clinician/pathologist of owner and/or referring vet communication documents</li> <li>• Continuous assessment of participation in clinical/pathology rounds by senior clinicians/pathologists</li> <li>• Assessment of contributions to graduate seminars by senior clinicians/pathologists on a weekly basis</li> <li>• Assessment of participation in journal and text reviews by senior clinicians/pathologists</li> <li>• Oral presentations to the relevant Department on an annual basis</li> <li>• Annual appraisal by clinical / pathology and research supervisors</li> </ul> <p><b>Summative assessment by:</b></p> <ul style="list-style-type: none"> <li>• Written examinations for the taught component of each</li> </ul>

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

### **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

### **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

- Problem-solving exercises
- 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

Describing and Interpreting Clinical Data

#### Elective modules

Advanced General Veterinary Surgery

Applied Research Skills  
Information Technology skills  
Practical Veterinary Education  
Ethics and welfare  
Evidence Based Veterinary  
Medicine  
Applied statistics and SPSS  
Core concepts in pathology

**Required Formative module**

Scientific writing

Advanced large animal medicine and critical care  
Anaesthesia  
Basic Small Animal Echocardiography  
Cardiac Pathophysiology  
Clinical Pathology Rounds  
Clinical Pharmacology  
Critical literature review in Anaesthesia  
Critical literature review in Oncology  
Critical literature review in veterinary clinical pathology  
Critical literature review in large animal surgery  
CSF Cytology Rounds  
Cytology Rounds for Small Animal  
Clinicians Dermatopathology  
Diagnostic Imaging Case Rounds  
ECC Module 1: Advanced critical care therapies  
Emergency & Critical Care 2: Respiratory focus  
Emergency & Critical Care 3: Haemostasis and Transfusion  
Medicine  
Equine Cytology Rounds  
Equine Ophthalmology  
Feline Cardiology  
  
Large Animal Diagnostic Imaging  
Large animal respiratory medicine

Literature Review in Diagnostic Imaging

Molecular & Cellular Biology

Musculoskeletal Pathophysiology & Locomotion

Neonatology and paediatrics

Nephrology and Urology

PID: Neurological pathology

Oncology 1

Oncology 2

Pathology of the alimentary tract (gastrointestinal tract, exocrine pancreas & liver)

Pathology of the cardiovascular and endocrine systems

Pathology of the haemopoietic and lymphoreticular systems

Pathology of the respiratory tract

Principles of Veterinary Neurosurgery

Problem solving in Cancer chemotherapy and biotherapy

Problem solving in neurology

Problem solving in neurophysiology and neuropharmacology

Problem solving in Veterinary Neuroanatomy

Skin: At the frontier - the enemy without & within

Small animal Gastroenterology

Small Animal Surgery – Diagnostic Imaging

Small Animal Surgery – Journal Club

Small Animal Surgery – Slatter Book Club & Practical Exam

Urogenital pathology

**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. Any requirements to be completed to permit entry to the examination**

- Recommendation to continue to next year at the annual appraisal at the end of year 1 and year 2

AND

- 3 oral presentations (may be within the RVC)

AND

- A minimum of 50% in combined marks for all modules with a minimum of 40% for each individual module



AND

- Completion of the scientific writing module

AND

- A research report submitted by the due deadline before the final 3<sup>rd</sup> year oral defence

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

### 23. Marking Criteria

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

### 24. 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%)

<b>25. Any additional requirements</b>	
<b>26. Requirements to Pass Overall</b>	To achieve a total average mark of 50% for all assessments combined, with a minimum of 50% overall for module assessments and for research project) and a minimum of 40% in individual modules.
<b>27. Consequences of Failure</b>	<p>A student who fails to receive a recommendation to continue to the following academic year at either the 1<sup>st</sup> or 2<sup>nd</sup> 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 core module examination would require a pass at a resit exam the following year or a pass in a different core module. A student who has achieved less than 40% in an elective module for which a resit exam is not possible must complete an alternative module in order to accrue sufficient marks.</p> <p>A student who has achieved less than 40% in the research project will be given the opportunity to resubmit the following year.</p>
<b>28. Classification</b>	Distinction: 75% or more; Merit: 65-74%; Pass: 50-64%; Fail: less than 50%
<b>29. Disclosure of Marks</b>	Results will be published by candidate number
<b>30. Dates of Examinations</b>	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.
<b>31. Date of production/revision</b>	15/2/12 CRL