Royal Veterinary College
University of London

PROGRAMME SPECIFICATION

1. Applies to cohort commencing in:	2019
2. Degree Granting Body	The University of London
3. Awarding institution	The Royal Veterinary College
4. Teaching institution	The Royal Veterinary College
5. Programme accredited by	Royal Society of Biology
6. Name and title	Bachelor of Science / Master in Science in Biological Sciences
7. Intermediate and Subsidiary Award(s)	Cert HE, Dip HE
8. Course Management Team	Course Director: Dr Charlotte Lawson; Year 1 Leader: Dr Donald Palmer; Year 2 Leader: Dr Abir Mukherjee; Year 3 Leader: Dr Bradley Cobb Year 4 Leader: Dr David Bishop-Bailey
9. FHEQ Level of Final Award	See: http://www.qaa.ac.uk/en/Publications/Documents/qualifications-frameworks.pdf
10. Date of First Intake	2002 for BSc, 2014 for transfer from BSc Biological Sciences to MSci year 4 2015 for MSci Biological Sciences
11. Frequency of Intake	Annually in September
12. Duration and Mode(s) of Study	Full time: BSc – three years MSci – four years
13. Registration Period ***(must be in line with the General Regulations for Study and Award)***	

	Full Time		Part Time	
	Minimum	Maximum	Minimum	Maximum
BSc	2 Academic years	5 Academic years	4 Academic years	6 Academic years
MSci	3 Academic years	6 Academic years	4 Academic years	7 Academic years

14. Timing of Examination Board meetings	Annually in July
15. Date of Last Periodic Review	2014
16. Date of Next Periodic Review	2019/20
17. Language of study and assessment	English
18. Entry Requirements	https://www.rvc.ac.uk/study/undergraduate/bsc-biological-science#tab-entry-requirements Progression to Year 4 To be considered for progression to Year 4, applicants must have achieved an aggregate Year 2 mark of at least 50%

19. UCAS code	N/A
20. HECoS Code	100345
21. Relevant QAA subject benchmark	Biosciences

22. Other External Reference Points

Report of the Committee of Enquiry into Veterinary Research (the Selborne Report)

Quality Assurance Agency, The framework for higher education qualifications in England, Wales and Northern Ireland

Higher education credit framework for England: guidance on academic credit arrangements in higher education in England, Quality Assurance Agency, 2008

Regulations of the University of London Future Fit, CBI 2009

Degree Accreditation Criteria, Society of Biology

SEEC Level Descriptors for Higher Education, SEEC, 2010

23. Aims of programme

BSc Biological Sciences

- To offer a high quality course, in which students are challenged by, and stimulated to challenge, accepted wisdom in all fields of biological and biomedical science.
- To prepare graduates for careers in academic and industrial research, biotechnology and the pharmaceutical industry in general, and in other health and medicine-related industries.
- To offer a high quality preparation for students aspiring to graduate entry to Medicine, Dentistry or Veterinary Medicine.

MSci Biological Sciences

The specific aims of the MSci Year are to enable students to:

- Gain research experience within biological and biomedical sciences that is relevant to their degree.
- Gain a deep and systematic understanding of current questions, problems and methods employed within the selected specialised research topic.
- Implement principles of project and experimental design and carefully execute, record and clearly disseminate research.
- Use self-reflection to improve levels of knowledge, professionalism, personal skills and research skills.
- Develop a sound appreciation of the research environment in which the student is working and their role within it.

24. Overall Programme Level Learning Outcomes - the programme offers opportunities for students to achieve and demonstrate the following learning outcomes. Learning outcomes should be specified for all intermediate awards as well as for the terminal award.

On successful completion of the bachelor of science course, students will:	Modules in which each learning outcome will be developed and assessed:
• Have a detailed understanding of cell biology, physiology, and genetics.	Year 1 modules
• Have a detailed understanding of the basis of infectious & non-communicable diseases and an appreciation of pharmacology and the broader applications for disease control.	Year 2 modules

• Display practical skills including the ability to design and execute experiments, analyse and interpret the resultant data, and present conclusions in a variety of formats.	Year 2 Research Project
• Have developed the ability to access appropriate information, make methodical observations on the normal and abnormal functioning of biological systems, discriminate between important and relatively unimportant information and observations, reflect on information and observations, and solve problems, and discuss uncertainty in relation to scientific “facts”, and balance different schools of thought.	Year 3 Research Project
• Develop independent and lifelong learning skills to promote their own personal and professional development	Tutorials & Skills Workshops (across all modules)
• Develop important employability skills including: communication, teamwork, personal management and career planning, effective learning, problem-solving, digital literacy, and numeracy.	Across all modules, with particular emphasis in projects and tutorials
• Act with integrity, be honest, fair and compassionate in all their work. • Maintain high ethical principles in relation to professional dealings, the use of information and experimentation in humans and animals.	Investigative Projects (all years)
On completion of the master in science course, students will additionally be able to:	
• Clearly communicate their project aims, background, results, relevance and own proposals for future research, demonstrating critical analysis and a deep and systematic knowledge and understanding of the literature.	Research Skills module
• Clearly and properly record their research.	Research Skills module & Year 4 project
• Demonstrate excellent professional conduct.	Year 4 project

• Identify specific areas for personal and skill development.	Research Skills module

25. Teaching/learning methods	**Approximate total number of hours**
Lectures	8- 10 hours per week
Practical / Directed Learning sessions	8-10 hours per week
Tutorials & self-directed Learning	5 hours per week
Research Project (Year 4)	20 hours per week

26. Assessment methods	**Percentage of total assessment load**
Coursework	BSc: 22% MSci: 20%
Written Exams	BSc: 45% MSci: 33%
Projects	BSc: 33% MSci: 47%

27. Feedback

In each module in each year, there are a number of formative feedback opportunities. These include written formative feedback on individual coursework, online quizzes with answers, group question and answer sessions, feedback to the year group about exam and ICA performance, feedback to individual students about exam and ICA performance (in one-to-one tutorials). Students are encouraged to seek feedback from lecturers and tutors as needed during all small group learning and practical classes. Frequent opportunities for formative feedback (oral and written) during investigative projects.

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

NB: The College will not deliver any module or part of a programme if circumstances have changed to threaten its quality or viability. Such offerings could change after a student has started the course. However, the College will always offer alternatives that will be of equal cost in both fees and add-on expenses to the student and of equal academic value.

	Module Title	FHEQ Level	Credits	Compulsory or optional
Year 1, Term 1	Biology of the Cell	4	15	Compulsory
Year 1, Term 1	Inheritance, Genes and Evolution	4	15	Compulsory
Year 1, Term 1	Developmental Biology	4	15	Compulsory
Year 1, Term 2	The Moving Animal	4	15	Compulsory
Year 1, Term 2	Integrated Physiology 1	4	15	Compulsory
Year 1, Term 2	Integrated Physiology 2	4	15	Compulsory
Year 1, Term 3	Problem Definition and Investigation	4	15	Compulsory
Year 1, Term 3	Project	4	15	Compulsory
Year 2, Term 1	Basis of Disease	5	15	Compulsory
Year 2, Term 1	Ageing and Degeneration	5	15	Compulsory

Year 2, Term 1	Principles of Infectious Diseases	5	15	Compulsory
Year 2, Term 2	Control of Infectious Diseases	5	15	Compulsory
Year 2, Term 2	Principles of Pharmacology	5	15	Compulsory
Year 2, Term 2	Applied Pharmacology	5	15	Optional
Year 2, Term 2	Imaging of Disease	5	15	Optional
Year 2, Term 2	Introduction to Animal Behaviour and Welfare	5	15	Optional
Year 2, Term 2	Introduction to One Health	5	15	Optional
Year 2, Term 3	Biological Sciences Project	5	30	Compulsory
Year 3	Biological Sciences Project	6	30 or 60	Compulsory
Year 3, Term 1	Comparative Animal Locomotion	6	30	Optional
Year 3, Term 1	Advanced Concepts in Reproduction	6	15	Optional
Year 3, Term 1	Development & Disease	6	15	Optional
Year 3, Term 1	Animal Behaviour & Cognition	6	15	Optional
Year 3, Term 1	Applied Molecular Microbiology	6	15	Optional
Year 3, Term 1	Parasitology of Human & Veterinary Tropical Diseases	6	15	Optional
Year 3, Term 1	Endocrine & Metabolic Syndromes	6	15	Optional
Year 3, Term 1	Advanced Skeletal Pathobiology	6	15	Optional
Year 3, Term 1	Science of Animal Welfare	6	15	Optional
Year 3, Term 2	Advanced Concepts in Biobusiness	6	15	Optional
Year 3, Term 2	Infection & Immunity	6	30	Optional
Year 3, Term 2	Comparative Models of Disease	6	15	Optional
Year 3, Term 2	Epidemiology: the Bigger Picture	6	15	Optional
Year 3, Term 2	Applied Animal Welfare	6	15	Optional
Year 3, Term 2	Animals & Human Society	6	15	Optional
Year 3, Terms 1 & 2	Various KCL modules	6	15 or 30	Optional
Year 4, Term 1 (MSci only)	Research Skills	7	15	Compulsory
Year 4 (MSci only)	Research Project	7	105	Compulsory

29. Work Placement Requirements or Opportunities	Optional Certificate in Work-based Learning and Research placement year
30. Student Support	http://www.rvc.ac.uk/study/support-for-students
31. Assessment Hyperlink to A&A Regs https://intranet.rvc.ac.uk/StudentsAndTeaching/MarkingSchemes.cfm	

Version Number	Amended by	Date
1 – added Subsidiary awards to section 7	Sandra Ward	30/04/19