



PROGRAMME SPECIFICATIONS

Bachelor of Science / Master in Science in Biological Sciences (BSc Bio Sci) / (MSci Bio Sci)

Bachelor of Science / Master in Science in Biological Sciences with Placement Year (BSc Bio Sci PY) / (MSci Bio Sci PY)

**PROGRAMME
SPECIFICATION**

1. Applies to cohort commencing in:	2022																				
2. Degree Granting Body	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 (BSc Bio Sci) / (MSci Bio Sci)																				
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 Isabel Orriss Year 4 Leader: Dr Claire Thornton																				
9. FHEQ Level of Final Award	BSc Level 6 MSci Level 7 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 A mix of teaching approaches including onsite and digital, synchronous and asynchronous, class and self-paced, expert-led, group and individual.																				
13. Registration Period (<i>must be in line with the General Regulations for Study and Award</i>)	<table border="1"> <thead> <tr> <th></th> <th colspan="2">Full Time</th> <th colspan="2">Part Time</th> </tr> <tr> <th></th> <th>Minimum</th> <th>Maximum</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>BSc</td> <td>2 Academic years</td> <td>5 Academic years</td> <td>4 Academic years</td> <td>6 Academic years</td> </tr> <tr> <td>MSci</td> <td>3 Academic years</td> <td>6 Academic years</td> <td>4 Academic years</td> <td>7 Academic years</td> </tr> </tbody> </table>		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
	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	2020																				
16. Date of Next Periodic Review	2023																				
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	BSc: C100 MSci: C102
20. HECoS Code	100345
21. Relevant QAA subject benchmark	Biosciences
22. Other External Reference Points	
<p>Report of the Committee of Enquiry into Veterinary Research (the Selborne Report)</p> <p>Quality Assurance Agency, The Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies, 2014</p> <p>Regulations of the University of London Future Fit, CBI 2009</p> <p>Degree Accreditation Criteria, Royal Society of Biology 2019</p> <p>SEEC Level Descriptors for Higher Education, SEEC, 2010</p>	
23. Aims of programme	
<p><u>BSc Biological Sciences</u></p> <ul style="list-style-type: none"> 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. <p><u>MSci Biological Sciences</u></p> <p>The specific aims of the MSci Year are to enable students to:</p> <ul style="list-style-type: none"> 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:
<ul style="list-style-type: none"> Have a detailed understanding of cell biology, physiology, and genetics. 	Year 1 modules
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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

<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Develop independent and lifelong learning skills to promote their own personal and professional development 	Tutorials & Skills Workshops (across all modules)
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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)
<ul style="list-style-type: none"> Have an appreciation of health and safety appropriate to laboratory and field work, including completion and understanding of risk assessment and COSHH documents, 	Investigative Projects (all years)
On completion of the master in science course, students will additionally be able to:	
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Clearly and properly record their research. 	Research Skills module & Year 4 project
<ul style="list-style-type: none"> Demonstrate excellent professional conduct. 	Year 4 project
<ul style="list-style-type: none"> 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, Welfare & Ethics	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	Biological Sciences Critical Literature Review	6	30	Optional (only if taken alongside 30 credit research project)
Year 3, pre-Term 1	Practical Investigative Biology	6	15	Optional
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 1	Omic Approaches to Biology	6	15	Optional
Year 3, Term 1	Principles of Pathology	6	30	Optional
Year 3, Term 1	Applications of Pathology	6	30	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, Term 2	Comparative Anatomy	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)	Biological Sciences Research Project	7	105	Compulsory
29. Work Placement Requirements or Opportunities		N/A, however BSc/MSci Biological Sciences with Placement Year is also available		
30. Student Support		http://www.rvc.ac.uk/study/support-for-students		

31. Assessment

Assessment and Award Regulations:

<https://www.rvc.ac.uk/about/the-rvc/academic-quality-regulations-procedures>

Version Number	Amended by	Date
1	Academic Quality Manager	17.06.20
2	Course Director	12.08.20
3	Sciences Course Support Manager	13.8.20
4	Sciences Course Support Manager	30.06.21
5	Academic Quality Manager	10.08.21
6	Course Director & Sciences Course Support Manager	25.04.22

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14. Timing of Examination Board meetings	Annually in July (Year 1, 2, 4, 5), Annually in July the following year (Year 3)																				
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16. Date of Next Periodic Review	2023																				
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 5																				

	<p>To be considered for progression to Year 5, applicants must have achieved an aggregate Year 2 mark of at least 50%</p> <p><u>Progression to the Placement Year</u> Written offer of a Placement for year 3 from a placement provider. The proposed placement project must address the Learning Outcomes. The placement provider must satisfactorily complete an 'RVC Collaborative Partners' form. The student must attend a Placement Health and Safety Induction at the RVC. Travel Risk Assessments must be performed if the placement is abroad. A Placement Supervisor must be named, and their details provided.</p>
19. UCAS code	BSc: C101 MSci: C104
20. HECoS Code	100345
21. Relevant QAA subject benchmark	Biosciences
22. Other External Reference Points	
<p>Report of the Committee of Enquiry into Veterinary Research (the Selborne Report)</p> <p>ABPI, 2019, Bridging the skills gap in the biopharmaceutical industry: Maintaining the UK's leading position in life sciences.</p> <p>Quality Assurance Agency, The Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies, 2014</p> <p>Regulations of the University of London Future Fit, CBI 2009</p> <p>Degree Accreditation Criteria, Royal Society of Biology 2019</p> <p>SEEC Level Descriptors for Higher Education, SEEC, 2010</p>	
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<ul style="list-style-type: none"> • 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. <p>Develop a sound appreciation of the research environment in which the student is working and their role within it.</p>	
<p>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.</p>	
On successful completion of the bachelor of science course, students will:	Modules in which each learning outcome will be developed and assessed:
<ul style="list-style-type: none"> • Have a detailed understanding of cell biology, physiology, and genetics. 	Year 1 modules
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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 1, 2, 3, 4 and 5 Research Projects
<ul style="list-style-type: none"> • Develop independent and lifelong learning skills to promote their own personal and professional development 	Tutorials & Skills Workshops (across all modules)
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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)

<ul style="list-style-type: none"> Have an appreciation of health and safety appropriate to laboratory and field work, including completion and understanding of risk assessment and COSHH documents, 	Year 2, 3, 4 and 5 Research Projects
On completion of the placement year, students will additionally be able to:	
<ul style="list-style-type: none"> Employ models of reflection to explore and critically evaluate how these influence own learning, personal and professional planning; providing recommendations and action plan to improve 	Placement Year 3: Professionalism module
<ul style="list-style-type: none"> Demonstrate experience within the biological sciences that is relevant to their degree 	Year 1, 2, 3, 4 and 5 Research Project Placement Year 3: Both Professionalism and Project modules
<ul style="list-style-type: none"> Demonstrate an appreciation of the sector in which the student is working, a broad knowledge of the field, and their role within it 	Placement Year 3: Both Professionalism and Project modules
<ul style="list-style-type: none"> Devise, interrogate and sustain arguments using scholarly sources and the accurate deployment of established techniques of analysis and enquiry within one topic. 	Year 1, 2, 3, 4 and 5 Research Project Placement Year 3: Project module
<ul style="list-style-type: none"> Demonstrate an appreciation of uncertainties and limits of knowledge 	Year 1, 2, 3, 4 and 5 Research Project Placement Year 3: Project module
On completion of the master in science course, students will additionally be able to:	
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Clearly and properly record their research. 	Research Skills module & Year 5 project
<ul style="list-style-type: none"> Demonstrate excellent professional conduct. 	Year 5 project
<ul style="list-style-type: none"> 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
Placement Year 3	35 hours per week

Research Project (Year 5)	20 hours per week
26. Assessment methods	Percentage of total assessment load
Coursework	BSc: 20% MSci: 20%
Written Exams	BSc: 40% MSci: 30%
Projects	BSc: 40% MSci: 50%

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.

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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, Welfare & Ethics	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, sandwich placement year	Biological Sciences-related Placement Project	6	75	Compulsory
Year 3, sandwich placement year	Professionalism	6	45	Compulsory
Year 4	Biological Sciences Project	6	30 or 60	Compulsory
Year 4	Biological Sciences Critical Literature Review	6	30	Optional (only if taken alongside 30 credit research project)
Year 4, pre-Term 1	Practical Investigative Biology	6	15	Optional
Year 4, Term 1	Comparative Animal Locomotion	6	30	Optional
Year 4, Term 1	Advanced Concepts in Reproduction	6	15	Optional
Year 4, Term 1	Development & Disease	6	15	Optional
Year 4, Term 1	Animal Behaviour & Cognition	6	15	Optional
Year 4, Term 1	Applied Molecular Microbiology	6	15	Optional
Year 4, Term 1	Parasitology of Human & Veterinary Tropical Diseases	6	15	Optional
Year 4, Term 1	Endocrine & Metabolic Syndromes	6	15	Optional
Year 4, Term 1	Advanced Skeletal Pathobiology	6	15	Optional
Year 4, Term 1	Science of Animal Welfare	6	15	Optional
Year 4, Term 1	Omic Approaches to Biology	6	15	Optional
Year 4, Term 1	Principles of Pathology	6	30	Optional
Year 4, Term 1	Applications of Pathology	6	30	Optional
Year 4, Term 2	Advanced Concepts in Biobusiness	6	15	Optional
Year 4, Term 2	Infection & Immunity	6	30	Optional
Year 4, Term 2	Comparative Models of Disease	6	15	Optional
Year 4, Term 2	Epidemiology: the Bigger Picture	6	15	Optional
Year 4, Term 2	Applied Animal Welfare	6	15	Optional
Year 4, Term 2	Animals & Human Society	6	15	Optional
Year 4, Term 2	Comparative Anatomy	6	15	Optional

Year 4, Terms 1 & 2	Various KCL modules	6	15 or 30	Optional
Year 5 Term 1 (MSci only)	Research Skills	7	15	Compulsory
Year 5 (MSci only)	Biological Sciences Research Project	7	105	Compulsory
29. Work Placement Requirements or Opportunities		Compulsory Placement year at Level 6		
30. Student Support		http://www.rvc.ac.uk/study/support-for-students		
31. Assessment				
Assessment and Award Regulations: https://www.rvc.ac.uk/about/the-rvc/academic-quality-regulations-procedures				

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