

PROGRAMME SPECIFICATION

1. Applies to cohort commencing in:	2025					
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)					
	Bachelor of Science / Master in Science in Biological Sciences with Placement Year (BSc Bio Sci PY) / (MSci Bio Sci PY)					
7. Intermediate and Subsidiary Award(s)	Cert HE in Biological Sciences, Dip HE in Biological Sciences					
8. Course Management Team	Co-Course Directors: Dr Isabel Orriss & Dr Caroline Pellet-Many Year 1 Leader: Dr Donald Palmer Year 2 Leader: Dr Abir Mukherjee Placement Year Leader (if applicable): Dr Claire Russell Year 3 Leader: Dr Matthew Gage Year 4 Leader: Dr Claire Thornton					
9. Level of Final Award	BSc Level 6 MSci Level 7 See: Office for Students (OfS) Sector-recognised standards					
10. Date of First Intake	September 2002 for BSc, September 2014 for transfer from BSc Biological Sciences to MSci year 4 September 2015 for MSci Biological Sciences September 2022 with Placement Year					
11. Frequency of Intake	Annually in September					
12. Duration and Mode(s) of Study	BSc – three years, full time. BSc with Placement Year– four years, full time. MSci – four years, full time. MSci with Placement Year– five years, full time. A mix of teaching approaches including onsite and digital, synchronous and asynchronous, class and self-paced, expert-led, group and individual.					
13. Registration Period (must be in line with the General Regulations for Study and Award)	Award Full Time Minimum Maximum BSc 2 Academic years 5 Academic years 6 Academic Years with Placement Year MSci 3 Academic years 4 Academic Years with Placement Year 9 Academic Years with Placement Year 9 With Placement Year					

14. Timing of Examination Board meetings	Annually in July and September
15. Date of Last Periodic Review	2020 n/a for Placement Year
16. Date of Next Periodic Review	2025
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 the Placement Year Written offer of a Placement 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
	Progression to MSci 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 BSc with Placement Year: C101 MSci: C102 MSci with Placement Year: C104
20. HECoS Code	100345
21. Relevant QAA subject benchmark	Biosciences

22. Other External Reference Points

Regulations of the University of London

Office for Students (OfS) Sector-recognised standards

Quality Assurance Agency, The Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies. 2014

Credit Level Descriptors for Higher Education, SEEC

Royal Society of Biology Degree Accreditation Criteria

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.

Placement Year

- To prepare students for the workplace through development of employability skills and understanding of the sector and organisation in which they are placed
- To increase student employability by providing work and research experience with a placement provider
- To provide students with a framework for lifelong learning
- To provide opportunity to develop research skills, including synthesis of information, critical analysis and an appreciation of factors that contribute to uncertainties

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 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.	Projects
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, problemsolving, 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. 	Projects

Have an appreciation of health and safety appropriate to laboratory and field work, including completion and understanding of risk assessment and COSHH documents.	Projects
On completion of the placement year,	
students will additionally be able to:	
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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	Professionalism and Project modules
Demonstrate experience within the biological sciences that is relevant to their degree	Professionalism and Project modules
Demonstrate an appreciation of the sector in which the student is working, a broad knowledge of the field, and their role within it	Professionalism and Project modules
Devise, interrogate and sustain arguments using scholarly sources and the accurate deployment of established techniques of analysis and enquiry within one topic.	Professionalism and Project modules
Demonstrate an appreciation of uncertainties and limits of knowledge	Professionalism and Project modules
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 Project
Demonstrate excellent professional conduct.	Project
Identify specific areas for personal and skill development.	Research Skills module
25. Teaching/learning methods	Approximate total number of hours per week over X many weeks?
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	35 hours per week
Research Project (MSci)	20 hours per week
26. Assessment methods	Percentage of total assessment load
Coursework	BSc: 22% BSc with Placement Year: 20% MSci: 20% MSci with Placement Year: 20%
Written Exams	BSc: 45% BSc with Placement Year: 40% MSci: 33% MSci with Placement Year: 30%
Projects	BSc: 33% BSc with Placement Year: 40% MSci: 47% MSci with Placement Year: 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 projects.

28. Work Placement Requirements or Opportunities	Yes, if doing the Placement Year at Level 6
29. Student Support	http://www.rvc.ac.uk/study/support-for- students
	and https://www.kcl.ac.uk/students

30. Assessment

Assessment and Award Regulations:

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

31. Programme structures and requirements, levels, modules, credits and awards
NB: Students planning more than a Stage ahead should be aware that 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.

Stage 1 (Year One) Credit and Awards	Details				
Total Credit to be studied at this stage	120 at Level 4				
There are no optional modules at this stage					
Award available for completion of the Stage	Certificate in Higher Education Biological Sciences				

Stage 1 (Year One) Compulsory Studies

Year	Term	Delivery Institution	Module Code	Module Title	Level Credit Value		Status for Award	Prerequisites
1	1	RVC		Biology of the Cell	4	15	Compulsory	None
1	1	RVC		Inheritance, Genes and Evolution	4	15	Compulsory	None
1	1	RVC		Developmental Biology	4	15	Compulsory	None
1	2	RVC		The Moving Animal	4	15	Compulsory	None
1	2	RVC		Integrated Physiology 1	4	15	Compulsory	None
1	2	RVC		Integrated Physiology 2	4	15	Compulsory	None
1	3	RVC		Problem Definition and Investigation	4	15	Compulsory	None
1	3	RVC		Project	4	15	Compulsory	None

Stage 2 (Year Two) Credit and Awards	Details
Total Credit to be studied at this stage	120 at Level 5

Optional modules required in addition to compulsory modules			15 credits						
ward available for completion of the Stage			Diploma in High	Diploma in Higher Education Biological Sciences					
Stage :	2 Compuls	sory Studies							
Year	Term	Delivery Institution	Module Code	Module Title	Level	Credit Value	Status for Award	Prerequisites	
2	1	RVC		Basis of Disease		5	15	Compulsory	Stage 1
2	1	RVC		Ageing and Degeneration		5	15	Compulsory	Stage 1
2	1	RVC		Principles of Infectious Diseases		5	15	Compulsory	Stage 1
2	2	RVC		Control of Infectious Diseases		5	15	Compulsory	Stage 1
2	2	RVC		Principles of Pharmacology		5	15	Compulsory	Stage 1
2	3	RVC		Project		5	30	Compulsory	Stage 1
Stage :	2 Optional	Studies					<u></u>		<u> </u>
Year	Term	Delivery Institution	Module Code	Module Title		Level	Credit Value	Status for Award	Prerequisites
2	2	RVC		Applied Pharmacology		5	15	Optional	Stage 1
2	2	RVC		Imaging of Disease		5	15	Optional	Stage 1
2	2	RVC		Introduction to Animal Behaviour, Welfare & Ethics		5	15	Optional	Stage 1
2	2	RVC		Introduction to One Health		5	15	Optional	Stage 1
Stage	3 PY (Year	Three Placement	t Year only) Credit a	nd Awards	Details		<u> </u>		
Total Credit to be studied at this stage			120 at Level 6						

Option	nal modules	required in addition	None							
Award	Award available for completion of the Stage			Diploma in Higher Education Biological Sciences with Placement Year						
Yea r	Term	Delivery Institution	Module Code	Module Title		Level	Credit Value	Status for Award	Prerequisites	
PY		RVC		Biological Sciences-relat	ed Placement Project	6	75	Compulsory		
PY		RVC		Professionalism		6	45	Compulsory		
Stage 3 (Year Three without a Placement Year) Credit and Awards Stage 4 PY (Year Four with a Placement Year) Credit and Awards					Details		I L			
		studied at this stag	•		120 at Level 6					
Option	nal modules	required in addition	n to compulsory modu	ules	60 or 90 credits	0 credits				
Option	nal modules	required in addition	n to compulsory modu	ules	60 or 90 credits					
Award	l available fo	r completion of the	e Stage		BSc (Hons) Biologic	al Sciences	with Placeme	nt Year		
Stage Stage	3 (Year Thi	ee without a Plac	ement Year) Compu	ulsory Studies Isory Studies	<u> </u>					
Year	Term	Delivery Institution	Module Code	Module Title		Level	Credit Value	Status for Award	Prerequisites	
3		RVC		Designated Biological Sci	ences Project	6	60	Compulsory	Stage 2	
3		RVC		Designated Biological Sci	ences Project	6	30	Compulsory	Stage 2	
Stage	3 Optional	Studies				L	I	<u>'</u> I	11	
Year	Term	Delivery Institution	Module Code	Module Title	Level	Credit Value	Status for Award	Prerequisites		
3	Term 1 or Term 2	RVC		Biological Sciences Critica	6	30	Optional	30 credit Designated Biological Sciences Project		
	3, Term 2 4, Term 2	RVC		Advanced Concepts in Bio	obusiness	6	15	Optional		

for Placement Year)						
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Advanced Concepts in Reproduction	6	15	Optional	
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Advanced Concepts in Skeletal Pathobiology	6	15	Optional	
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Animal Behaviour and Cognition	6	15	Optional	
Year 3, Term 2 (Year 4, Term 2 for Placement Year)	RVC	Animals and Human Society	6	15	Optional	
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Applications of Pathology	6	30	Optional	Principles of Pathology
Year 3, Term 2 (Year 4, Term 2 for Placement Year)	RVC	Applied Animal Welfare	6	15	Optional	
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Applied Molecular Microbiology	6	15	Optional	
Year 3, Term 2 (Year 4, Term 2 for Placement Year)	RVC	Applied Wildlife Health Sciences	6	15	Optional	
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Comparative Animal Locomotion	6	30	Optional	

Year 3, Term 2 (Year 4, Term 2 for Placement Year)	RVC	Comparative Anatomy	6	15	Optional	
Year 3, Term 2 (Year 4, Term 2 for Placement Year)	RVC	Comparative Models of Disease	6	15	Optional	
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Development and Disease	6	15	Optional	
Year 3, Term 2 (Year 4, Term 2 for Placement Year)	RVC	Ecology: Individuals, Populations & Communities	6	15	Optional	
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Endocrine and Metabolic Syndromes	6	15	Optional	
Year 3, Term 2 (Year 4, Term 2 for Placement Year)	RVC	Epidemiology: the Bigger Picture	6	15	Optional	
Year 3, Term 2 (Year 4, Term 2 for Placement Year)	RVC	Infection and Immunity	6	30	Optional	
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Omic Approaches to Biology	6	15	Optional	
Year 3, Term 1 (Year 4, Term 1 for Placement Year)	RVC	Parasitology of Human and Veterinary tropical Diseases	6	15	Optional	
Year 3, pre-Term 1 (Year 4, pre- Term 1 for Placement Year)	RVC	Practical Investigative Biology	6	15	Optional	

Year 3, Ter (Year 4, Te for Placeme Year)	rm 1	RVC		Principles of Pathology	6	30	Optional	Applications of Pathology	
Year 3, Ter (Year 4, Te for Placeme Year)	rm 1	RVC		Science of Animal Welfare	6	15	Optional		
Year 3, Ter & 2 (Year 4 Terms 1 & 2 Placement	, 2 for	King's College London		Various KCL modules	6	15 or 30	Optional		
Stage 4 (Year Four without a Placement Year) Credit and Awards Stage 5 (Year Five with a Placement Year) Credit and Awards				Details					
Total Credit to be studied at this stage				120 at Level 7					
There are n	no optiona	l modules							
Awards available for completion of the Stage				MSci Biological Sciences MSci Biological Sciences with Placement Year (PY)					
		without a Placemonith							
Year T	erm	Delivery Institution	Module Code	Module Title		Level	Credit Value	Status for Award	Prerequisites
Year 4, Ter (MSci only) 5 for Placer Year)	(Year		RVC	Research Skills		7	15	Compulsory	
Year 4 (MSci only) 5 for Placer Year)			RVC	Biological Sciences Research	n Project	7	105	Compulsory	

KCL = King's College London PY = Placement Year RVC = Royal Veterinary College

Version Number	Amended by	Date
1.0	Academic Quality Manager	17.06.20
1.1	Course Director	12.08.20
1.2	Sciences Course Support	13.8.20
	Manager	
1.3	Sciences Course Support	30.06.21
	Manager	
1.4	Academic Quality Manager	10.08.21
1.5	Course Director & Sciences	25.04.22
	Course Support Manager	
1.6	Academic Quality Manager	05.01.2023
1.7	BSc MSci Course Director	20.12.2023
1.8	BSc MSci Course Director &	14.02.2024
	Sciences Course Support	
	Manager	