

# Department of Biological Sciences

## About the department

The Department of Biological Sciences offers an exciting range of single honours degree programmes ranging from Biochemistry and Biomedical Sciences to Zoology and Ecology. All our modules are taught by specialist staff with high professional standards and international reputations. We take great pride in our approachability, friendliness and the support that we offer our students. In the National Student Survey 2020, the Department received a satisfaction rating of 100% from final year biology students.

## Entry requirements

The modules listed below are open to all Study Abroad and International Exchange students, subject to any required previous knowledge or qualifications, as stated below. Suitability to study the modules will be assessed by the Department on a case-by-case basis. For further information about a module click on the underlined link to 'subject information' to see the entry in the online module catalogue.

Each module is worth 15 credits. Each module is taught in either Term 1 (Autumn) or Term 2 (Spring) as stated below. Final exams are usually held the following term.

For students visiting for Term 1 only, we offer the 'V' version of modules, where the final exam is held in the final week of Term 1 (December).

*The information contained in the module options on the following pages is correct at the time of publication but may be subject to change as part of our policy of continuous improvement and development.*



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## 2026-27 Module options for visiting students

Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
BS1031	Chemistry of Life	15 UK credits	Term 2	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.
BS1032	Fundamental Biochemistry	15 UK credits	Term 2	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.
BS1042	Vertebrate Evolution and Diversity	15 UK credits	Term 2	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (biology or geography) is expected.
BS1043	Green Planet: Plants and Our Future	15 UK credits	Term 2	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (biology or geography) is expected.
BS1051	Ecology and Conservation	15 UK credits	Term 2	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (biology or geography) is expected.
BS1052	Biomes and Ecosystems	15 UK credits	Term 2	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (biology or geography) is expected.
BS1061	Introductory Animal Physiology	15 UK credits	Term 1	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.
BS1061V	Introductory Animal Physiology <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.



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BS1062	Introduction to Human Physiology in Health and Disease	15 UK credits	Term 2	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.
BS1071	Cell Biology and the Origin of Life	15 UK credits	Term 1	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.
BS1071V	Cell Biology and The Origin of Life <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.
BS1072	Genetics	15 UK credits	Term 1	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.
BS1072V	Genetics <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.
BS1091	Protein Biochemistry and Enzymology	15 UK credits	Term 2	<b>Syllabus information</b> A-level (or equivalent) knowledge of science (maths, physics, chemistry or biology) is expected.
BS2005	Microbiology	15 UK credits	Term 2	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of cell biology and genetics is expected.



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BS2010	Invertebrate Biology: Structure, Behaviour and Evolution	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of animal physiology is expected.
BS2010V	Invertebrate Biology: Structure, Behaviour and Evolution <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of animal physiology is expected.
BS2020	Food Security, Sustainability and Green Biotechnology	15 UK credits	Term 2	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of plant biology and genetics is expected.
BS2040	Cell Dynamics: Division and Movement	15 UK credits	Term 2	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of cell biology and genetics is expected.
BS2050	Human Physiology in Health and Disease (II)	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of physiology is expected.
BS2050V	Human Physiology in Health and Disease (II) <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of physiology is expected.



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Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
BS2060	Developmental Biology	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of cell biology and genetics is expected.
BS2060V	Developmental Biology <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of cell biology and genetics is expected.
BS2090	Plant Biotic Interactions and Ecological Networks	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of plant biology and ecology is expected.
BS2090V	Plant Biotic Interactions and Ecological Networks <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of plant biology and ecology is expected.
BS2120	Biological Data Analysis and Interpretation	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some fundamental background in biology and maths is expected.
BS2120V	Biological Data Analysis and Interpretation <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some fundamental background in biology and maths is expected.
BS2140	Animal Behaviour	15 UK credits	Term 2	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some fundamental background in animal physiology and biology is expected.



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BS2150	Applications Of Molecular Genetics in Biology	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of genetics is expected.
BS2150V	Applications Of Molecular Genetics in Biology <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of genetics is expected.
BS2160	Evolution	15 UK credits	Term 2	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some fundamental background in biology and maths is expected.
BS2510	Bioenergetics and Metabolism	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of biochemistry is expected.
BS2510V	Bioenergetics and Metabolism <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of biochemistry is expected.
BS2520	Protein Structure and Function	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of biochemistry is expected.
BS2520V	Protein Structure and Function <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of biochemistry is expected.



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Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
BS2530	Molecular Biology	15 UK credits	Term 2	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of genetics is expected.
BS2540	Immunology	15 UK credits	Term 2	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of genetics and cell biology is expected.
BS2550	Neuronal and Cellular Signalling	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of cell biology and physiology is expected.
BS2550V	Neuronal & Cellular Signalling <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of cell biology and physiology is expected.
BS2560	Pharmacology and Toxicology	15 UK credits	Term 2	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of physiology and biochemistry is expected.
BS2570	Physical Biochemistry for Life Scientists	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of biochemistry is expected.
BS2570V	Physical Biochemistry for Life Scientists <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of biochemistry is expected.
BS2580	Natural Product Biochemistry and Sustainability	15 UK credits	Term 2	<b>Syllabus information</b> This is a second-year module (i.e. intermediate level) and some prior knowledge of biochemistry is expected.



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Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
BS3060	Conservation Science	15 UK credits	Term 2	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of ecology is required.
BS3120	Population and Community Ecology	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of ecology is required.
BS3120V	Population and Community Ecology <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of ecology is required.
BS3180	Marine Ecology and Biodiversity	15 UK credits	Term 2	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of animal biology and ecology is required.
BS3190	Climate Change: Plants and the Environment	15 UK credits	Term 2	<b>Syllabus information</b> This is a third-year module (i.e. advanced level). Prior knowledge of plant science and genetics is required.
BS3210	Evolutionary Ecology of Vertebrates	15 UK credits	Term 2	<b>Syllabus information</b> This is a third-year module (i.e. advanced level). Prior knowledge of animal biology and evolution is required.
BS3220	Extreme Animal Physiology	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of animal behaviour or animal physiology is required.
BS3220V	Extreme Animal Physiology <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of animal behaviour or animal physiology is required.



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BS3230	Circadian Biology	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of genetics and cell biology is required.
BS3230V	Circadian Biology <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of genetics and cell biology is required.
BS3240	Evolutionary Medicine	15 UK credits	Term 2	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of genetics is required.
BS3410	Biotechnology	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of genetics and cell biology is required.
BS3410V	Biotechnology <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of genetics and cell biology is required.
BS3420	Nutrition and Medical Biochemistry	15 UK credits	Term 2	<b>Syllabus information</b> This is a third-year module (i.e. advanced level). Prior knowledge of biochemistry is required.
BS3510	Molecular and Medical Microbiology	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year course (i.e. advanced level). Prior knowledge of cell biology, microbiology and immunology is required.
BS3510V	Molecular and Medical Microbiology <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year course (i.e. advanced level). Prior knowledge of cell biology, microbiology and immunology is required.



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BS3530	Applications of Genetic Engineering in Health and Disease	15 UK credits	Term 1	<a href="#">Syllabus information</a> This is a third-year module (i.e. advanced level) and prior knowledge of genetics and molecular biology is required.
BS3530V	Applications of Genetic Engineering in Health and Disease <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<a href="#">Syllabus information</a> This is a third-year module (i.e. advanced level) and prior knowledge of genetics and molecular biology is required.
BS3540	Cell and Molecular Biology of Cancer	15 UK credits	Term 2	<a href="#">Syllabus information</a> This is a third-year module (i.e. advanced level) and prior knowledge of cell biology and molecular biology is required.
BS3560	Functional Genomics, Proteomics and Bioinformatics	15 UK credits	Term 2	<a href="#">Syllabus information</a> This is a third-year module (i.e. advanced level); prior knowledge of molecular biology is required.
BS3570	Human Embryology	15 UK credits	Term 1	<a href="#">Syllabus information</a> This is a third-year module (i.e. advanced level) and prior knowledge of physiology or developmental biology is required.
BS3570V	Human Embryology <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<a href="#">Syllabus information</a> This is a third-year module (i.e. advanced level) and prior knowledge of physiology or developmental biology is required.
BS3580	Cell And Molecular Neuroscience	15 UK credits	Term 2	<a href="#">Syllabus information</a> This is a third-year module (i.e. advanced level); prior knowledge of neuronal signalling is required.



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BS3590	Molecular Basis of Inherited Disease	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of genetics and molecular biology is required.
BS3590V	Molecular Basis of Inherited Disease <i>students coming for Term 1 only</i>	15 UK credits	Term 1	<b>Syllabus information</b> This is a third-year module (i.e. advanced level) and prior knowledge of genetics and molecular biology is required.



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