Intercalated degrees for medical, veterinary and dental students

Further information

How to apply
Please apply directly to us for intercalated degrees using our online application form. Visit our website for more details on how and when to apply.

bristol.ac.uk/intercalate

Accommodation for intercalating students
Students who intercalate from other institutions are guaranteed an offer of accommodation subject to the conditions of Bristol’s accommodation agreement for first-year undergraduate students. Please check our website for more details.

bristol.ac.uk/accommodation/undergraduate/intercalating-students

The information contained in this leaflet is correct at the time of printing (August 2019). For up-to-date information, prospective applicants should check the website: bristol.ac.uk/intercalate.

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What is intercalation?

An intercalated award is an additional undergraduate degree (BSc or BA) or master's level programme (MRes or MSc) that you complete in an intensive year away from your normal medical, dental or veterinary studies. You can study a BSc or BA after two or more years of study on your professional programme. You need to complete at least three years of your professional programme for entry on to our master's level programmes.

‘I’m very grateful for the academic and personal growth that this year has given me.’

Sam (BSc Functional and Clinical Anatomy)
Why intercalate at Bristol?

Bristol is a top ten UK university according to the QS World Rankings 2020, and was placed joint fifth with the University of Oxford for research intensity in the UK’s latest Research Excellence Framework (THE analysis of REF 2014). This means that the vast majority of our teaching staff are active researchers, so you will study with experts who bring the latest research developments into the lecture theatre, the seminar room and the laboratory.

Benefits of intercalation
Pausing your studies to intercalate with us provides a whole host of benefits for your career and personal development including the chance to:

• delve deeper into a subject or specialism that interests you;
• study something completely different from your current subject;
• explore current trends in cutting-edge research alongside international experts;
• focus on a research project, which will provide you with an excellent grounding in research methods;
• improve your career prospects in a competitive graduate market;
• make new friends away from your professional programme;
• experience life as a student away from your clinical programme and its extensive timetable.

Student services and support
Choosing to intercalate is a significant decision and there is a lot to consider before you apply. For example, you will need to think about the additional costs of another year at university, how you will deal with different teaching and assessment methods, and how you will feel about rejoining your professional programme a year behind your peers.

We want our students to have the very best experience with us, so to help you with any concerns, the University offers a wealth of support services including the Student Funding Office, a comprehensive range of study skills sessions and Student Services, whose staff are on hand to offer plenty of support and advice should you need it.

Fees and funding
Please check our online course finder for the current tuition fees for your chosen intercalated degree.

Funding for intercalation varies depending on where you live and our Student Funding Office can provide you with up-to-date information about the financial support available.

‘I have been fantastically well supported at Bristol. I lived in halls of residence, where administrative and pastoral staff were on hand to help me settle in and help with any issues throughout term. I was also allocated a personal tutor from within the Medical School, who looked out for me in my studies and could be contacted with any academic or personal queries.’

Patrick (MBChB Medicine)

How to apply
Please apply directly to us using our online application form at bristol.ac.uk/intercalate/apply
Student life in Bristol

The city
Our students always say how much they love the city of Bristol – from its friendly people and fantastic music scene to its vibrant harbourside, green spaces and buzzing centre. Bristol combines the tradition of a historic port city with the atmosphere of a fast-paced, dynamic and modern metropolis. Its flourishing cultural life reflects the diversity of its population, which represents at least 187 countries of birth. Considered to be the capital of south-west England, our cosmopolitan city has a strong, independent spirit.

The city holds a number of prestigious accolades. Bristol was voted the best place to live in the UK by The Sunday Times in 2017. Bristol is one of only six UK science cities and was named Europe’s best small city of the future by influential business publication fDi Magazine. Best of all, Bristol is the perfect size, offering all the excitement of a big city packed into an area you can easily explore on foot or by bike.

The University
Alongside Bristol’s impressive city credentials, the University plays host to many sports clubs, societies and volunteering opportunities. Our excellent sports and fitness facilities will help you stay on top of your game, with over 70 sports clubs, ranging from gliding to volleyball. The University of Bristol Students’ Union co-ordinates a huge range of activities for you to get involved in and is home to more than 400 student groups, ranging from wine to tea appreciation and hot air ballooning to photography. Our students also contribute an impressive 100,000 hours each year volunteering on projects such as painting the homes of older Bristol residents or working in local primary schools.

If you choose to study with us, you will quickly discover that Bristol is an exciting and vibrant place to spend your intercalation year. bristol.ac.uk/study/undergraduate/student-life

International intercalators

The Bristol experience
We welcome applications from overseas students who would like to intercalate. Bristol is a truly international university and is a highly supportive environment, where we encourage personal as well as academic growth.

Bristol is one of the most popular and successful universities in the UK. We continually invest in our facilities, training and technology to give you the best opportunity to succeed. Welcoming students and staff from over 150 countries with an exciting diversity of backgrounds makes for a stimulating and dynamic community.

Bristol is situated in south-west England, surrounded by countryside, but under two hours from London by train. It is well connected by a major road and rail network hub and has a busy international airport. The region is known for its engineering, IT and creative industries, and the city is home to scientists, engineers, academics and artists.

Advice for international students and families
As well as accessing the full range of support services available to all students at the University, you will be able to benefit from the support offered by the International Office, for example if you are bringing your family to the UK, and when adjusting to UK systems.

Advisers from Student Visa Services can offer practical support for your visa application, helping to ensure that you understand your visa conditions. They are qualified experts and are here to make sure your visa arrangements are sorted, allowing you to focus on your studies.

A warm welcome
The University runs an arrivals service at four different arrival points, including London Heathrow and Bristol International Airport, to make your arrival into the UK as easy as possible.

‘Clinical Sciences has been particularly great because it’s so immersive and heavily practical. It’s almost as if you learn on the job, which I believe will set us up so well for doing research in the future.’

Georgia (MBChB Medicine)
Biochemistry (BSc)

Biochemistry is a fascinating discipline which allows you to explore the molecular basis of biological systems.

The knowledge gained from this programme will help equip you for modern medical diagnosis and therapeutics which has an increasingly strong molecular basis. Topics of study include the latest gene editing technologies for gene therapy, synthetic biology and personalised medicine.

The course combines lectures, workshops, small-group tutorials, reading of primary literature and research projects. You will be supported throughout by a personal tutor. You will have opportunities to improve communication skills through oral and written presentations, and to critically evaluate experimental data and the conclusions drawn from them – skills invaluable to your career as a clinician or clinician scientist.

What will I study?

Advanced Cell Biology covers topics such as: cell migration during wound healing and cancer; the mechanisms by which molecules are moved within and between cells; and techniques for imaging these behaviours.

Cellular Information covers topics such as damage and repair of DNA; regulation of gene expression; and the role of signalling pathways in cancer and diabetes.

The Dynamic Proteome examines how proteins are built, folded into intricate 3D shapes and assembled with other components to form molecular machinery that conducts the chemistry of life.

Advanced Options in Biochemistry may include options in neurobiochemistry, cancer, molecular basis of disease, synthetic biology, DNA-protein interactions, and protein science in therapy and technology.

Research projects

A highlight of the year is your practical project, during which you will conduct original research in one of our world-class research laboratories. In addition to a wide range of wet lab-based projects, we also offer computer-based projects for students who wish to gain experience in analysing the large bodies of genetic and proteomic data that are generated by modern high-throughput biological techniques.

Student projects have focused on areas such as:
- insulin-like growth factors and cancer;
- the cellular uptake of nanoparticles;
- the VPS35 (L774M) mutation in Parkinson’s Disease.

You will also write a literature review in which you consider current scientific literature and write a report on a selected specialist topic.

Contact: School of Biochemistry
Tel: +44 (0)117 331 2167
Email: bioc-office@bristol.ac.uk

Bioethics (BSc)

One of the first intercalated courses in healthcare ethics and law offered by a UK university, this course has been run by Bristol’s Centre for Ethics in Medicine since 1998. The centre is an internationally recognised leader in research and teaching in bioethics. Our track record of success means that you will study with expert tutors from across the field of bioethics and, in particular, experts in philosophical ethics and medical law. This will be of particular appeal to students of medicine, veterinary science and dentistry.

Research projects

A highlight of the year is your practical project, during which you will conduct original research in one of our world-class research laboratories. In addition to a wide range of wet lab-based projects, we also offer computer-based projects for students who wish to gain experience in analysing the large bodies of genetic and proteomic data that are generated by modern high-throughput biological techniques.

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Tel: +44 (0)117 331 2167
Email: bioc-office@bristol.ac.uk

Intercalating students use this course to inform and develop their clinical practice, with some going on to become members of ethics committees, such as clinical ethics advisory groups. Others go on to contribute to scholarship in the field, conducting research and publishing in leading journals and books.

What will I study?

The course comprises four units and a substantial dissertation:

- Introduction to Bioethics
- Introduction to Medical Law
- Medicine and Law – taught in the Law School
- Ethics – taught in the Department of Philosophy
- Dissertation.

Contact: Centre for Ethics in Medicine
Tel: +44 (0)117 331 4521
Email: brms-ethicsinfo@bristol.ac.uk
Cancer Biology and Immunology (BSc)

Embedded within the internationally recognised School of Cellular and Molecular Medicine, this unique course offers a fascinating insight into this field as well as an opportunity to explore the scientific background to a possible area of specialisation in your future career.

What will I study?
The course comprises four units plus a research project. You will choose at least three of the four lecture units.

Developmental Genetics and Embryonal Cancers outlines how critical molecules, pathways and mechanisms regulate cell growth and development. You will learn how defects and diversions in normal growth control can lead to developmental diseases and cancer.

Cancer Mechanisms and Therapeutics shows how cancers develop and which key genes and growth signalling pathways become defective, leading to the development of common adult cancers. You will discover how a knowledge of defective signalling pathways can reveal novel measures to prevent, detect and treat cancer.

Advanced Immunology is at the cutting edge of research; this in-depth unit explores the cellular and molecular events that drive immune responses. It illustrates the development and differentiation of immune cells, how the immune system processes and recognises antigens, how immune cells home to the tissues of our body where they are needed, and the consequences of their communications. It demonstrates that the immune system needs control and shows how this is achieved to avoid disease.

Immunopathology and Applied Immunology provides you with a comprehensive knowledge of diseases that develop because of inappropriate immune responses or deficiencies in the immune system. It also introduces you to disease processes and shows how this knowledge is used to manipulate the immune system through vaccination and other immune therapies to fight infection, allergy, autoimmunity and tumour development.

You can opt to take an alternative fourth unit from the following:
- Regenerative Medicine
- Haemopoietic Stem Cell Transplantation
- Medical Virology
- Frontiers in Infectious Diseases
- Medical Microbiology.

Research skills
The research skills unit includes training in data handling and a substantial laboratory or literature-based project, which could see you publishing your work for the first time.

Contact: School of Cellular and Molecular Medicine
Tel: +44 (0)117 331 2050
Email: enquiries-cellmolmed@bristol.ac.uk

Embedded within the internationally recognised School of Cellular and Molecular Medicine, this unique course offers a fascinating insight into this field as well as an opportunity to explore the scientific background to a possible area of specialisation in your future career.

What will I study?
The course comprises four units plus a research project. You will choose at least three of the four lecture units.

Developmental Genetics and Embryonal Cancers outlines how critical molecules, pathways and mechanisms regulate cell growth and development. You will learn how defects and diversions in normal growth control can lead to developmental diseases and cancer.

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Contact: School of Cellular and Molecular Medicine
Tel: +44 (0)117 331 2050
Email: enquiries-cellmolmed@bristol.ac.uk

Cellular and Molecular Medicine (BSc)

At the School of Cellular and Molecular Medicine we aim to inspire you with our mission to turn science into medicine. As an intercalating student you will join our current third-year undergraduates learning what it is like to be involved in biomedical research and how to think like a scientist. You will develop critical and analytical skills which will benefit you enormously in your future career as a doctor, dentist or vet.

Bristol is a powerhouse of research expertise in the field of cellular and molecular medicine. The TH’E’s analysis of the UK’s Research Excellence Framework 2014 placed Bristol first for the impact of our research in clinical medicine, which incorporates this discipline. As a result, we can offer outstanding teaching by active researchers who bring the latest developments into the lecture theatre and laboratory.

What will I study?
The course comprises four lecture units and a research skills unit, which includes a substantial research project. You will choose four of the following nine lecture units:
- Regenerative Medicine
- Haemopoietic Stem Cell Transplantation
- Medical Virology
- Frontiers in Infectious Diseases
- Medical Microbiology.
- Medical Microbiology.
- Medical Virology
- Frontiers in Infectious Diseases
- Medical Microbiology.

Research skills
The research skills unit includes training in data handling and a substantial laboratory- or literature-based project. Lab-based research will see you working as part of a research group either at the School of Cellular and Molecular Medicine or in a local hospital. A literature-based project could involve data analysis or a literature review supervised by one of our experts.

Students have researched projects such as:
- The role of stem cells in the pathology and treatment of osteomyelitis (lab based);
- Tissue-engineered cartilage grafts for the treatment of osteoarthritis (lab based);
- The role of stem cells in breast cancer progression (literature-based).

Contact: School of Cellular and Molecular Medicine
Tel: +44 (0)117 331 2050
Email: enquiries-cellmolmed@bristol.ac.uk

Cancer Biology and Immunology (BSc)
Childhood Studies (BSc)

Childhood studies is the social science of childhood and adolescence. This course explores the social factors that underpin many key aspects of childhood, including health and development. It will benefit intercalating students who are considering a career working with children and young people or their families, and those interested in developing a holistic approach to their future practice.

This interdisciplinary subject combines theoretical understandings from areas such as psychology, sociology, education, policy studies, law, health and social care, anthropology and history. It brings these perspectives to an understanding of children and young people from birth to 19 years of age, and of the political, economic and social environments in which they grow up.

You will explore this subject with internationally recognised academics whose work is focused on children and families, developing your understanding of childhood from diverse perspectives. You will become an active researcher through research projects and your dissertation (not mandatory), fostering highly sought-after skills that will equip you for a wide range of careers.

You will study in a friendly, supportive community at the School for Policy Studies, joining our undergraduates on their final year of the course.

What will I study?
You will complete either a substantial research-based dissertation and four taught units, or a smaller, guided independent study project and five taught units, selected from a range of options such as:

- Play and Creativity
- Youth, Sexualities and Gendered Violence
- Therapeutic Work with Children
- Family Support
- Child and Adolescent Psychology
- Changing Families and the State
- Youth Policy and Social Welfare
- Language and Literacy
- Children and Young People in the Law
- Inter-professional Working
- Youth Justice
- Children in a Global Context
- Education, Schooling and Diversity
- Child Nutrition, Activity and Health.

Contact: School for Policy Studies
Tel: +44 (0)117 954 6755
Email: sps-enquiries@bristol.ac.uk

Clinical Sciences (BSc)

This course offers intercalating students the opportunity to study the underlying scientific basis of disease and how this can transform clinical practice.

You will learn how research discoveries at the bench can turn into bedside practice in a broad range of systems including musculoskeletal disease, metabolic disorders, renal medicine, cardiology, respiratory medicine and neuroscience.

Bristol was ranked among the top five UK universities for research in the THE’s analysis of REF 2014. The University was also placed first for research impact in clinical medicine, public health, health services and primary care in that same analysis.

Our students learn in small groups in lectures, seminars, tutorials and workshops that are held in excellent teaching and research facilities, such as the Dorothy Hodgkin Building and Southmead Hospital's Learning and Research Building. We welcome medical, veterinary and dental undergraduates.

What will I study?
The course consists of the following units:

- Introduction to Research in Health Sciences
- Laboratory Research Methods
- Clinical Research Methods in Chronic Disease
- Molecular Basis of Disease
- Diseases of the Nervous System
- Research Dissertation.

Contact: Bristol Medical School
Tel: +44 (0)117 331 3165
Email: bsc-in-clinical-sciences@bristol.ac.uk
The Functional and Clinical Anatomy intercalated course provides students from professional programmes with a detailed knowledge of human anatomy that is related to function and, ultimately, dysfunction. A major component of the degree is dissection and imaging. This programme was instigated in response to student demand and is designed to complement pre-clinical basic science teaching. It also utilises the excellent resources available with the Centre for Applied Anatomy.

**What will I study?**
In small groups, you will dissect a cadaveric subject and be expected to investigate anatomical variations, pathologies and evidence of procedures present in their subject, building this into an extensive research portfolio. This work will be supported by integrated functional and clinical seminars for each of the regions of the body.

**Advanced Dissection and Research Portfolio**
The dissection underpins the entire course and dictates which body region is discussed in the associated seminar. Over 24 weeks, you will dissect your subject in small groups, taking note of evidence of clinical intervention – often surgical, pathological and anatomical variation. Each cadaveric subject will be scanned prior to dissection and the MR images will be available to the group as part of preparation for sessions. Findings (both dissection and MR) will be investigated and may form all or part of the dissertation. In addition to the thorough exploration of diverse themes, such as anatomical variation and pathology, and ethics and law relating to body donation, this unit fosters transferable skills, such as manual dexterity and haptic sense. Advanced dissection is assessed by presentation, OSCE and a reflective log. The research unit is assessed by 10,000-word dissertation and poster presentation.

**Functional and Clinical Anatomy I & II**
These units comprise seminars led by a range of basic scientists and clinicians and are integrated with timetabled dissection sessions to give an advanced perspective on the structural, functional and clinical anatomy of a given body region. Assessment is essay based.

**Methods, Communication and Translation**
In addition to critical thinking abilities, this unit will provide you with a basis in research skills ranging from design to communication. Many of the skills taught will be transferrable and aptitude for a number of key outcomes, such as lay articles, posters and so on, will be assessed and feedback provided. This unit provides support for your research dissertation.

**Contact:** Centre for Applied Anatomy
Tel: +44 (0)117 928 8929
Email: student-admin-southwell@bristol.ac.uk

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The intercalated BSc in Genomic Medicine has provided me with important research skills for my future career, as well as giving me an insight into a new, exciting area of medicine that will only become more relevant with time.

**Jess (MB ChB Medicine)**

Genomic Medicine (BSc)

Hosted by the Medical Research Council Integrative Epidemiology Unit at the University of Bristol, this course will introduce you to the genomics revolution and how it is changing medicine, from genetic influences on complex disorders and epigenetic regulation, to precision medicine and personal genomics. With genome-wide genetic risk profiles now commercially available to the public for less than £100, the goal is to equip you with the tools you need to understand and interpret this information when you encounter it in everyday practice.

**What will I study?**

**The Human Genome**
The structure of our genome and the inhabitants of the genomic zoo; how genes are regulated; how genomes vary between people; and how DNA sequence relates to epigenomics, transcriptomics, proteomics and metabolomics.

**Genomic Data Science**
Understanding human genetics through essential statistical and computational skills that will equip you to interpret genomic data in the laboratory and clinic. Topics include genome-wide association and sequence analysis, genetic risk prediction, data science and bioinformatics, twin and family studies, and practical genomics coding skills.

**Genomic Medicine**
Clinical applications of genomic knowledge, including topics such as clinical genetics of rare disorders, genomics of cardiovascular health and disease, behavioural and psychiatric genomics, cancer genomics, genomic prognosis and precision medicine.

**The Population Laboratory**
Genomics in human populations, including how they have evolved over evolutionary time; modern-day commercial genomic profiles; genomic self-screening by the public; how people respond to genomic information and the legal and ethical implications of this; and the importance of gene-environment interactions. As part of this unit, you will also have the option to analyse your own genome-wide genetic risk profile.

**Cracking Causality**
Using genetic data to discover the environmental causes of disease. Topics include Mendelian randomization and other designs for causal inference, and translation of causal discoveries to new drugs and new policies.

**Research Project**
A four-month research project based in one of the world-leading applied human genomics research groups at Bristol.

**Contact:** Bristol Medical School
Tel: +44 (0)117 394 1649
Email: bsc-in-genomic-medicine@bristol.ac.uk
Global Health (BSc)

Globalisation requires tomorrow’s doctors to be aware of global health issues and have a broad knowledge of disease, as well as an understanding of both the social determinants of disease and cultural responses to illness.

This exciting course was developed in response to this need, taking full advantage of Bristol’s multidisciplinary research expertise in this area and attracting students who are passionate about global health issues. In fact, our students have been involved at every stage, helping to develop it into a popular intercalated course.

The course will introduce you to the importance of global health issues to medical practice and culture. The need to address issues such as disease and cultural responses to illness today is crucial. Understanding global health is essential for everyone wanting to understand our world and how we might make it better.

The course will be taught in small groups and in a fully immersive environment. You will work with people from different countries and cultures and will be part of a multidisciplinary global health team.

You will develop a broad understanding of global health issues and will be taught by experienced professionals who have been involved at every stage, helping to develop the course into a popular intercalated course.

What will I study?

The course consists of the following taught units and a dissertation:

- Global Burden of Disease
- Health Policy in an International Context
- Inequalities in Health
- Anthropology and Global Health
- Gender, Conflict, Migration and Human Rights
- Global Dimensions of Disability
- Global Child Health

Your dissertation will enable you to explore an area of interest in depth and should be an opportunity to carry out a project on a wildlife topic of interest to you and present your results as a written report suitable for publication.

What will I get?

By the end of the course you will have gained the skills and knowledge to deal with a variety of practical situations that professional wildlife biologists face on a day-to-day basis.

Contact: Centre for Child and Adolescent Health

Tel: +44 (0)117 428 3076
Email: bsc-globalhealth@bristol.ac.uk

Global Wildlife Health and Conservation (MSc)

This innovative programme aims to give you the knowledge, skills and practical training needed to work with wildlife, with special emphasis on its health and conservation at the global scale.

The programme is based at Bristol Veterinary School on our Langford campus in Somerset, providing student access to Exmoor National Park and the rich wildlife habitats of south-west England. Many lectures and practical sessions take place at Bristol Zoo, allowing you to gain hands-on experience of exotic animal care while working behind the scenes in a modern zoological garden.

A special feature of this MSc is the large number of lectures, workshops and seminars that are delivered by leading researchers, conservationists and wildlife veterinarians from outside the University.

By the end of the course you will have gained the skills and knowledge to deal with a variety of practical situations that professional wildlife biologists face on a day-to-day basis.

What will I get?

Cutting-edge topics include animal capture and handling techniques; the assessment, stabilisation and transportation of injured animals; methods for improving the welfare of captive animals; concepts in behavioural ecology; endangered species breeding programmes; the reintroduction of captive populations to the wild; practical conservation strategies; and the management of protected areas. The curriculum also delivers a comprehensive introduction to wildlife disease ecology, surveillance and control.

A research element from May to August provides an opportunity to carry out a project on a wildlife topic of interest to you and present your results as a written report suitable for publication.

Careers

This course has been carefully designed for those aspiring to a career in wildlife health, conservation and management. Potential employers include national parks, zoological gardens, animal rescue centres, wildlife hospitals, environmental NGOs, conservation charities and government agencies with statutory wildlife responsibilities, both in Britain and overseas.

Previous students have gone on to work for a range of employers, including the Environment Agency, Chester Zoo, the Sloth Institute Costa Rica, the World Wide Fund for Nature, Frontier and Ecofieldtrips Singapore. Our graduates are now spread across the world, working on wildlife conservation in Europe, North America, South America, Asia and Africa.

Contact: Bristol Veterinary School

Tel: +44 (0)117 603 2744
Email: svs-reception@bristol.ac.uk

‘I intercalated in Global Health this year. It has been a wonderful year and I enjoyed it thoroughly. The lecturers were amazing and inspiring, and the course definitely broadened my perspectives.’

Priya (MB ChB Medicine)

‘I enjoyed the variety in the topics that were taught to us. Coming from a background where I knew little about issues concerning species, I am now confident I have relevant skills in this area to demonstrate to future employers.’

Annabel (MSc Global Wildlife Health and Conservation)
Health, Law and Society (LLM)

This distinctive master’s programme, led by scholars in the University of Bristol Law School’s Centre for Health, Law and Society, examines how to approach some of the greatest challenges and opportunities for law and policy as mechanisms to address health and wellbeing. It looks at questions including reproductive justice, social and mental health and wellbeing, health inequalities, and the diverse roles of social and political institutions in shaping health, law and society.

It therefore goes beyond traditional courses on healthcare law to look at the relationships between law, governance and health across society and governmental sectors. You will enjoy the opportunity to study wide-ranging questions concerning the impacts of law, regulation, policy and practice on health and wellbeing.

The advantages of studying for this LLM include:
- Transferable skills it promotes. You will be taught both its subject coverage and the range of methods as well innovative assessment tasks in the research and production of at least one research-based dissertation.
- The opportunity to study wide-ranging questions concerning the impacts of law, regulation, policy and practice on health and wellbeing.
- An opportunity to work alongside scholars in the University of Bristol Law School’s Centre for Health, Law and Society.

You will choose a further health-focused optional unit from the following:
- Public and Global Health Law;
- Law and Governance for Mental and Social Well-Being;
- Health Law and the Body.

You will select one further optional unit: either a further health-focused unit or, if appropriate, from the LLM more widely.

The course includes traditional assessment methods as well innovative assessment tasks in the research and production of at least one law reform project.

Contact: University of Bristol Law School
Tel: +44 (0)117 394 0062
Email: law-pg-admissions@bristol.ac.uk

What will I study?
The programme comprises four taught units, followed by a substantial, research-based dissertation.

For the taught components, you will study two compulsory health law units:
- Health Inequalities, Law, and Society;
- Law, Governance, and Health.

You will choose a further health-focused optional unit from the following:
- Public and Global Health Law;
- Law and Governance for Mental and Social Well-Being;
- Health Law and the Body.

You will select one further optional unit: either a further health-focused unit or, if appropriate, from the LLM more widely.

The course includes traditional assessment methods as well innovative assessment tasks in the research and production of at least one law reform project.

Health Sciences Research (MRes)

This programme offers an excellent grounding in biomedical research by equipping you with the skills to understand, critically analyse and conduct clinically relevant scientific research.

What will I study?
The core of the programme is an eight-month research project in an area that inspires you. This could be either a fundamental bioscience project, translational research or an epidemiological population health study.

Taught units deliver intensive research training covering scientific writing, critical appraisal of scientific literature, presentation skills, experimental design, statistics and grant writing, giving you the key skills to be a successful researcher. The programme comprises five units:
- Introduction to Research in Health Sciences
- Further Research Methods
- Project Proposal
- Research Club
- Research Project.

MRes Health Sciences Research (Renal)

Students with a particular interest in renal medical sciences can study the MRes Health Sciences Research (Renal). In addition to the units listed above (except Project Proposal), you will be required to take the following unit:

Introduction to Renal Sciences

Research projects will be renal-focused and will take the form of a fundamental bioscience project, translational research, or an epidemiological population health study (in partnership with the UK Renal Registry). There is an additional option to undertake a clinical placement, shadowing adult or paediatric nephrologists during inpatient and outpatient consultations.

Contact: Faculty of Health Sciences
Tel: +44 (0)117 342 3582
Email: healthsciences-mres@bristol.ac.uk

‘Intercalation was great for me because it allowed me to develop my knowledge of an area I found interesting. It is also a great opportunity to use that innovative side of yourself that is often neglected in medicine because of the large workload. On this course you are given the opportunity to be creative scientifically and develop your own ideas.’

Andrew (MB ChB Medicine)
Grounded in the disciplines of English literature and philosophy, this course demonstrates how the humanities can be used to illuminate the practice of medicine and medical research. We aim to inspire the next generation of doctors, dentists and vets to be emotionally and cognitively intelligent, culturally aware and philosophically inquiring. You will learn some of the key skills of literary and philosophical analysis and use these to broaden your understanding of the suffering individual, their medical care and carers, and the historical and epistemological basis on which that care is delivered.

Studying the humanities involves a considerable amount of self-directed learning and independent reading. Compared with medicine, dentistry and veterinary science, you can expect a greater amount of self-directed learning and independent reading. Compared with medicine, dentistry and veterinary science, you can expect a greater amount of independent reading.

You will also write a supervised dissertation which explores a particular aspect of the medical humanities course and demonstrates advanced research and writing skills. Dissertations from recent years (2017-2019) include:

- Autism, stimming and wellbeing: can we justify preventing repetitive behaviours?
- Madness and suicide in women: Shakespeare’s Hamlet and Birch’s Anatomy of a Suicide
- Medical humanitarianism and bio-citizenship: South Africa’s struggle with HIV/AIDS.

Contact: Department of Philosophy, School of Arts
Tel: +44 (0)117 954 6050
Email: sart-ibamhadmin@bristol.ac.uk

Medical Microbiology (BSc)

Involving some of the most challenging aspects of global health, this degree will equip you with clinically relevant knowledge and an invaluable insight into research at the front line of medical microbiology.

What will I study?
The course comprises four lecture units and a research skills unit which includes a substantial laboratory-based project. This will develop your ability to work in teams, to develop your research skills, and to present your findings in an effective manner.

Medical Microbiology describes how bacteria and fungi become resistant to antimicrobial agents and investigates the genetic mechanisms involved in the spread of resistance. It covers the key drug-resistant bacteria in healthcare settings, and how changes in healthcare have exacerbated this problem. You will also study methods for tracking and controlling healthcare-associated infections and approaches to combating drug resistance.

Medical Virology discusses how viruses are dealt with at a molecular level by defence mechanisms in the host. It shows how this knowledge allows us to devise both prophylactic and therapeutic interventions and will help you develop an understanding of the key research methods that are currently used to study viral and bacterial pathogens within mammalian hosts.

Frontiers in Infectious Diseases reveals the key steps in pathogen life cycles and how these are dealt with at a molecular level by defence mechanisms in the host. It shows how this knowledge allows us to devise both prophylactic and therapeutic interventions and will help you develop an understanding of the key research methods that are currently used to study viral and bacterial pathogens within mammalian hosts.

Optional units
You will also choose a fourth unit from the following options:

- Developmental Genetics and Embryonal Cancers
- Cancer Mechanisms and Therapeutics
- Advanced Immunology
- Immunopathology and Applied Immunology
- Regenerative Medicine
- Haemopoietic Stem Cell Transplantation.

Research skills
The research skills unit includes training in data handling and a substantial laboratory- or literature-based project. This will develop the skills you need to carry out a research project in the field, as well as the ability to read, analyse and interpret scientific data presented in the literature.

Contact: School of Cellular and Molecular Medicine
Tel: +44 (0)117 331 2050
Email: enquiries-cellmolmed@bristol.ac.uk

Charlie (MB ChB Medicine)
Neuroscience is one of the fastest growing areas in biomedical sciences. You will join our final-year students and be introduced to discoveries that have transformed our understanding of the brain and the nervous system and helped to develop new treatments for disorders that affect millions of people. The course will develop your practical experience as well as your critical thinking and report-writing skills, all invaluable for your future career as a doctor, dentist or vet.

What will I study?

Mandatory units
All students take the Concepts and Skills unit, which is designed to help you further develop the key skills you will need to succeed on the course. There is a significant focus on statistics as well as experimental design, data handling and how to tackle data interpretation questions. You will also learn to critically analyse, interpret and write about scientific papers.

You can choose a unit from either the Pharmacology or Physiological Sciences courses as one of your three optional units if space and timetabling permit.

Research project
All students produce a substantial piece of original research, presenting the findings in a dissertation and oral presentation. Options include:
- an experimental project, which may be based in the lab within an active research group, or may have a clinical or data-analysis focus, led by one of the school’s academic staff;
- a literature-based project in which you will produce a detailed review that proposes a programme of further research;
- a teaching project in which you might assess current teaching methods and materials on the University’s science courses, or develop a new teaching programme in partnership with science teachers at a local secondary school.

Contact: School of Physiology, Pharmacology and Neuroscience
Tel: +44 (0)117 331 1840
Email: phph-studentadmin@bristol.ac.uk

Pharmacology is the study of the action of ‘drugs’ in the widest possible sense, ranging from how medicines are used to treat patients to how drugs of abuse can alter body function.

In this course, which spans physiology, biochemistry, molecular biology and neuroscience, you will learn what drugs are, how they work and what they do. We will introduce you to approaches used to make new drugs by investigating their effects on single molecules, cells, organs and the whole body. You will learn about current and proposed treatments for conditions such as Alzheimer’s disease, depression, cystic fibrosis, blood clotting disorders and drug addiction. This offers intercalating medical, dentistry and veterinary science students clinically relevant insights to take back into their training.

This research-driven course is based within the School of Physiology, Pharmacology and Neuroscience, which is internationally recognised for its teaching and research on neuro and vascular pharmacology. As such, we will introduce you to cutting-edge experimental techniques in advanced technical workshops.

The course delivers rigorous training in scientific knowledge and thinking, as well as many transferable skills. You will leave with skills in reading scientific papers, experimental design, data analysis, scientific writing, biomedical research, presenting and ethics, all of which will stand you in good stead for any career path you decide to take.

What will I study?
The course consists of five mandatory units:
- Concepts and Skills
- Pharmacology of Ion Channels and Synaptic Transmission
- Receptor Signalling and Non-drug Therapies
- Pharmacology of the Nervous System
- Research Project.

The supervised research project allows you to explore an area of interest in much greater detail and is a highlight of the course. You can work full time in a research laboratory for six to eight weeks to pursue a novel piece of research, learning to design your own experiments and analyse the results. Some students opt for a project that interrogates the published scientific literature or carry out an in-depth analysis of experimental data. All projects are assessed by a dissertation and a poster presentation.

Contact: School of Physiology, Pharmacology and Neuroscience
Tel: +44 (0)117 331 1840
Email: phph-studentadmin@bristol.ac.uk
Physiological Science (BSc)

Physiology is the study of animal (including human), function across cells, tissues, organ systems and the whole body. You will join our final-year students to study at the frontier of knowledge in topics such as pain, genes and function, brain and behaviour, cardiovascular disorders, and the biophysics of ion channels. The course will immerse you in current research and offers a high level of clinical relevance to your medical, dental or veterinary science training. It will develop your critical awareness and provide you with a set of essential transferable skills that will enhance your career prospects.

What will I study?
All students take the Concepts and Skills unit, which comprises lectures, workshops and private study and is designed to help you further develop the key skills you will need to succeed on the course. There is a significant focus on statistics as well experimental design, data handling and how to tackle data interpretation questions. You will also learn to critically analyse, interpret and write about scientific papers.

You will choose three further units from the following:
• Heart in Health and Disease
• New Horizons in Medicine
• Go With the Flow: The Urinary Tract from Beginning to End
• Cardiovascular System in Health and Disease
• Sensational Neuroscience
• Neuroscience of Pain
• Brain and Behaviour.

You can choose a unit from either the Neuroscience or Pharmacology course as one of your three optional units if space and timetabling permit.

Research project
All students produce a substantial piece of original research, presenting the findings in a dissertation and an oral presentation.

Options for your research project include:
• An experimental project, which may be based in the lab within an active research group, or may have a clinical or data-analysis focus, led by one of the school’s academic staff
• A literature-based project, in which you will produce a detailed review that proposes a programme of further research
• A teaching project in which you might assess current teaching methods and materials on the University’s science courses, or develop a new teaching programme in partnership with science teachers at a local secondary school.

Contact: School of Physiology, Pharmacology and Neuroscience
Tel: +44 (0)117 331 1840
Email: phph-studentadmin@bristol.ac.uk

Social Policy (BSc)

Social policy is a fascinating, interdisciplinary and applied subject that pays particular attention to analysing the distribution and delivery of resources in response to social needs, preferences and expectations. The course benefits by rigorously linking theoretical analysis with empirical enquiry, examining how data and research shape our understanding of social policy issues. You will acquire the skills to enable you to critically evaluate the concepts, theories and ideologies that shape social policy, and to become an active and informed global citizen.

Bristol is one of the best places to study social policy in the UK (Guardian University guide 2019), and the School for Policy Studies is renowned for its internationally excellent research in the areas of poverty, austerity, migration, disability, gender violence, international social policy, policing and social care.

You will join third-year students on the Social Policy course, and you will be taught through lectures, workshops, seminars, small-group tutorials, reading of primary literature and research projects. You will be supported throughout by a personal tutor.

Intercallers will leave the course with a strong grounding in social policy theories and responses. You will also gain excellent communication skills developed through oral and written presentations, and the ability to critically evaluate policy and academic literature, skills that are highly rated in the medical sector and industry.

What will I study?
To ensure that you understand core social policy concepts, you will complete one of the following units:
• Understanding Public Policy or
• Theorising Social Welfare.

You will be able to choose from a number of optional units, which may include:
• Changing Families and the State
• Drugs and Society
• Gender Based Violence
• Social Policy in East Asia
• Housing, Economy and Society
• Cities and Communities in the Urban Age
• Migration: UK, European Union and Global Perspectives
• Youth Justice.

The final assessment is a piece of independent study or a dissertation. This will be supported by a small number of lectures or workshops on policy research and theories, and will include one-to-one supervision from a member of staff, who will work with you on this process.

Contact: School for Policy Studies
Tel: +44 (0)117 954 6755
Email: sps-enquiries@bristol.ac.uk
This unique programme aims to train the cardiovascular researchers of the future. You will be taught by internationally renowned clinicians and scientists from the University of Bristol and the Bristol Heart Institute – centre for translational cardiovascular research and a leading academic cardiac surgery centre in the UK.

**What will I study?**
You will study the following units:
- Coronary Artery Disease
- Heart and Valve Disease
- Paediatric Heart Disease
- Aneurysm, Peripheral Vein Disease and Stroke.

You will also be given an excellent grounding in research methodology, clinical trials design and statistics, as well as practical experience from tutorials, hands-on workshops, and clinical and simulator sessions.

Your research will culminate in a 7,000-word thesis. You will also present your findings at the final viva (oral exam). This research training will give you the opportunity to gain numerous skills including scientific writing, critical appraisal of scientific literature, presentation skills, experimental design, statistics and research grant writing, giving you the key skills to become a successful researcher.

**Contact:** Faculty of Health Sciences
Tel: +44 (0)117 342 3582
Email: socscardiology-msc@bristol.ac.uk

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It is difficult to overestimate the global impact of viruses on public health. Worldwide, they are responsible for millions of deaths and episodes of ill health each year. Effective vaccines exist to combat some viral infections, but in many cases good vaccines remain elusive.

This course introduces the many challenges that we face in this field, offering you key insights into principles and research methods that will be invaluable for your future medical, dental or veterinary training.

**What will I study?**
The course comprises four lecture units and a research skills unit, which includes a substantial laboratory- or literature-based project. All students take the following three compulsory lecture units:

- **Medical Virology** reviews the general virology of the most important viral pathogens in terms of world health, including HIV, hepatitis, herpes, influenza and measles. You will study each virus in terms of its natural history, biology, molecular biology, immunology, pathogenesis and epidemiology.

- **Frontiers in Infectious Disease** reveals the key steps in pathogen life cycles and how these are dealt with at a molecular level by defence mechanisms in the host. You will use this knowledge to devise both prophylactic and therapeutic interventions by developing an understanding of the key research methods that are currently used to study viral and bacterial pathogens within mammalian hosts.

- **Immunopathology and Applied Immunology** provides you with a comprehensive knowledge of diseases which develop as a consequence of inappropriate immune responses, and as a result of deficiencies in the immune system. It also introduces you to disease processes and demonstrates how this knowledge is used to manipulate the immune system through vaccination and other immunotherapies to fight infection, allergy, autoimmunity and tumour development.

**Optional units**
You will also choose one of these optional units:
- Medical Microbiology
- Developmental Genetics and Embryonal Cancers
- Cancer Mechanisms and Therapeutics
- Advanced Immunology
- Regenerative Medicine
- Haemopoietic Stem Cell Transplantation.

**Research skills**
The research skills unit includes training in data handling and a substantial laboratory- or literature-based project.

**Contact:** School of Cellular and Molecular Medicine
Tel: +44 (0)117 331 2050
Email: enquiries-cellmolmed@bristol.ac.uk

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**Translational Cardiovascular Medicine (MSc)**

“The University of Bristol is well known worldwide and has an excellent reputation. Doing the MSc in Bristol had a major role in getting me accepted in an internal medicine residency programme at University of British Columbia to pursue my goal of becoming an interventional cardiologist.”

Ali (MSc Translational Cardiovascular Medicine)

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**Virology and Immunology (BSc)**

‘I loved intercalating at the School of Cellular and Molecular Medicine. The project was my favourite part of the year. I was assigned two supervisors, one of whom was a PhD student, which was really helpful.’

Amy (MB ChB Medicine)
### Zoology (BSc)

Our zoology intercalated degree course is based around our traditional strengths in whole organism biology (behaviour and ecology), as well as excellence in cell and molecular biology.

We have an international reputation for the outstanding quality of our research, which underpins our commitment to teaching. Many of our staff are world leaders in their fields, giving you the opportunity to learn from those involved in shaping the latest advances in biology. Our passionate belief is that the big advances in biology come from interdisciplinarity and addressing problems on multiple levels. That breadth and ambition is reflected in our teaching. Our exceptional teaching standards have been rated as ‘excellent’ by the Higher Education Funding Council for England.

The Life Sciences Building, which houses the School of Biological Sciences, is located at the heart of the University campus, adjacent to other core science and medical schools. It couples central positioning with the best in sustainable design and energy efficiency. This iconic building forms a hub for interdisciplinary research, facilitating major advances across the sciences.

**Contact:** School of Biological Sciences  
Tel: +44 (0)117 394 1212  
Email: biologydept@bristol.ac.uk

The facilities for our course are excellent, especially the Life Sciences Building, which is amazing to work in. Lecturers and supervisors are always keen to help you with your subject and are really excited to talk with someone who shares their passion. They really want you to do well.”  

**Chris** (BSc Biology)

### What will I study?

The intercalated year comprises two major elements: a literature review and a 12-week practical research project. You will also take a total of six taught units, including at least three of the following:

- Sensory Ecology
- Sex, Behaviour and Life Histories
- Staying Alive
- Oceans
- Communication and Cognition in Animal Societies
- Social Evolution.

Studying zoology involves a considerable amount of self-directed learning and independent reading compared with veterinary science. This is particularly true of the research project, which, despite academic supervision, demands high levels of independence and self-organisation. Good quantitative and writing skills are also important. Throughout the year you will also be encouraged to attend departmental research seminars on a diverse range of subjects.

### Contact:

School of Biological Sciences  
Tel: +44 (0)117 394 1212  
Email: biologydept@bristol.ac.uk

The facilities for our course are excellent, especially the Life Sciences Building, which is amazing to work in. Lecturers and supervisors are always keen to help you with your subject and are really excited to talk with someone who shares their passion. They really want you to do well.”  

**Chris** (BSc Biology)

### Entry requirements

<table>
<thead>
<tr>
<th>Course title</th>
<th>Who can apply?</th>
<th>Additional requirements</th>
<th>Language requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry (BSc)</td>
<td>D, M, V</td>
<td>Supplementary application form</td>
<td>Profile E</td>
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<tr>
<td>Bioethics (BSc)</td>
<td>D, M, V</td>
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<td>Profile A</td>
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<tr>
<td>Cancer Biology and Immunology (BSc)</td>
<td>D, M, V</td>
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<td>Profile E</td>
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<tr>
<td>Cellular and Molecular Medicine (BSc)</td>
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<tr>
<td>Childhood Studies (BSc)</td>
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<tr>
<td>Clinical Sciences (BSc)</td>
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<tr>
<td>Functional and Clinical Anatomy (BSc)</td>
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<tr>
<td>Genomic Medicine (BSc)</td>
<td>D, M, V</td>
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<tr>
<td>Global Health (BSc)</td>
<td>D, M, V</td>
<td>Supplementary application form</td>
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<tr>
<td>Global Wildlife Health and Conservation (MSc)</td>
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<tr>
<td>Health, Law and Society (LLM)</td>
<td>D, M, V</td>
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<tr>
<td>Health Sciences Research (MRes)</td>
<td>D, M, V</td>
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<tr>
<td>Medical Humanities (BA)</td>
<td>D, M, V</td>
<td>Supplementary application form</td>
<td>Profile A</td>
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<tr>
<td>Medical Microbiology (BSc)</td>
<td>D, M, V</td>
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<td>Profile E</td>
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<tr>
<td>Neuroscience (BSc)</td>
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<tr>
<td>Pharmacology (BSc)</td>
<td>D, M, V</td>
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<tr>
<td>Physiological Science (BSc)</td>
<td>D, M, V</td>
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<tr>
<td>Social Policy (BSc)</td>
<td>D, M, V</td>
<td></td>
<td>Profile B</td>
</tr>
<tr>
<td>Translational Cardiovascular Medicine (MSc)</td>
<td>D, M, V</td>
<td>Students must have Hepatitis B immunisation to attend workshops in February</td>
<td>Profile E</td>
</tr>
<tr>
<td>Virology and Immunology (BSc)</td>
<td>D, M, V</td>
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<td>Profile E</td>
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<tr>
<td>Zoology (BSc)</td>
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<td>Profile E</td>
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</tbody>
</table>

D = dentists  
M = medics  
V = vets

You need to complete at least three years of your professional programme for entry on to our master’s level programmes. The online application and supplementary forms (for those courses requiring one) are available from bristol.ac.uk/intercalate.

International applicants must demonstrate a certain level of English language proficiency to qualify for a place on their chosen course. Different courses require different levels of language skills. We refer to these skill levels as ‘profiles’. The profile for your chosen course is shown above and full details of each profile are available at bristol.ac.uk/study/language-requirements.
Ranked joint ninth for teaching
(Times Higher Education European Teaching Ranking 2019)

Ranked joint fifth in the UK for research intensity
(Times Higher Education analysis of REF 2014)

A top ten UK university
(QS World University Rankings 2020)