Discover **Life Sciences** and Transform your Future

A completely changed curriculum to give you the knowledge and skills required to pursue a career in science. A challenging course, done like nowhere else.

[www.lifesci.dundee.ac.uk/studying](http://www.lifesci.dundee.ac.uk/studying)
Why Scotland?

Fantastic culture, beautiful landscapes and famously friendly people... just some of the reasons that Scotland is a fantastic place to study.

Scotland has an ancient and pioneering system of higher education, and Scots have always placed great importance on learning, leading the way in this area since the early part of the 15th century.

Scotland facts
- Scotland has a population of around 5.1m and is rich in history and culture
- The four major cities are Glasgow, Edinburgh, Aberdeen and Dundee
- Scotland has four main international airports (Glasgow, Edinburgh, Prestwick and Aberdeen)
- There is a lower cost of living and a higher quality of life in Scotland than in most other parts of the UK
- Most of Scotland’s population lives in the towns and cities in the Central Belt, leaving hundreds of square miles of diverse and beautiful unspoilt countryside.
- The national flower of Scotland is the thistle – a symbol of Scottish defiance

Education excellence
Did you know?
- Scotland has educated some of the world’s top intellectuals and inventors including John Logie Baird, Alexander Graham Bell, Adam Smith and Sir Alexander Fleming
- Scotland produces more academic papers and citations per 10,000 of the population than any other country in the world
- Graduates from Scotland’s universities have higher starting salaries than the UK average
- Graduates from Scotland’s universities have the lowest unemployment levels in the UK

Colourful history
Scotland’s history goes back over 5000 years. Scotland was an independent sovereign state for hundreds of years until the union with England formed Great Britain in 1707. It was not until 1999 that Scotland once again had its own parliament, while still remaining as part of Great Britain. Throughout this time, Scotland has retained its unique culture.

It is very easy to explore the history of Scotland by visiting exhibitions such as the National Museum of Scotland or the People’s Palace and Winter Gardens. There are many castles which are definitely worth a visit, namely: Edinburgh Castle, a spectacular icon of Scotland and World Heritage Site; St Andrews Castle and Cathedral and Eilean Donan Castle, one of the most beautiful and most photographed castles in the world.
Why Dundee?

An excellent academic reputation
• The University of Dundee has an international reputation and attracts top-class students from across the world
• Rated 1st in the UK for all round student experience - Times Higher Education Student Experience Survey (January 2012)
• Dundee is ranked in the world’s top 225 universities by both the Times Higher Education World Rankings 2012 and the QS World University Rankings 2012

Culture
• The University campus has been voted the friendliest in Scotland
• The majority of students live on or near the University campus situated next to Dundee’s cultural quarter. Theatres, art-house cinema, restaurants, galleries, bars, boutiques and craft shops are all within 5 minutes walking distance - no car necessary!
• ‘The Victoria & Albert at Dundee’, a new centre of 21st century design for Scotland and the world, will occupy a prime site at the heart of Dundee’s redeveloped waterfront
• We have approximately 18,000 students, 60% of whom are from Scotland, 20% from elsewhere in the UK and 20% from the EU or overseas

Quality of life
• Dundee regularly appears at the top end of ‘Quality of Life’ surveys in the UK, offering all that’s best of city life yet is friendly, compact and easy to navigate
• Dundee has been reported as having more hours of sunshine, the purest air quality and more green spaces than any other Scottish city. We even have a beach for relaxing on those sunny days!

don’t forget...

Dundee has the highest graduate starting salaries in Scotland
(Sunday Times University Guide 2011)
Why study Life Sciences at Dundee?
As a place to study life sciences we achieve consistently high ratings, and the internationally-recognised research strengths of the College of Life Sciences are reflected in our research-led teaching and a wide range of research training opportunities for life sciences graduates.

Our research is rated 1st in Europe for biology and biochemistry, and 4th for molecular biology and genetics (by Thomson Scientific), and we were ranked 49th in the World’s Top Universities for biological sciences by the QS World University Rankings 2013.

Our excellent reputation also extends to the quality of our teaching. In the 2013 National Student Survey we were ranked joint top in the UK for student satisfaction in biological sciences with 100% of our students saying they were satisfied with the quality of their course.

Destination Dundee
Why choose us?
• Ranked 55th in the world for Medicine and the Life Sciences
• Taught by specialist teachers who are also fellows of the Higher Education Academy
• Great exchange opportunities in Europe, Hong Kong, Singapore and North America
• Dundee rated 8th in the UK for all-round student experience
• 96% of our graduates are employed or in further study soon after graduation
• The skills and knowledge employers want

Transferable skills
Your degree programme will involve a combination of independent learning and team work, through which you will develop your skills in information processing, use of computers, problem-solving, experimental design, analysis and critical evaluation of scientific literature, report writing, making presentations, communication and time management. These are important elements of all of our degree programmes, and they will help to ensure that you have the skills to make you attractive to a wide range of employers.

As another means of enhancing employability, we are keen to encourage students to take on a variety of different internship options during their summer vacations in order that they gain experience in a working environment, either within the University of Dundee, in other academic institutions (both home and abroad), in industry or in the voluntary sector. The University Careers Service already helps to identify placement opportunities and advise our students on how to apply for them, and the College of Life Sciences has developed a new scheme to coordinate funded placements for undergraduates in its own research laboratories.

Apply now for September 2014

International fee
£14,500

Sir James Black sponsorship
£5,000

Automatic Dean’s Award Scholarship
£2,500
At Dundee Life Sciences we give you the opportunity to push yourself to be the best.

**Years 1 & 2**
Students on all life sciences programs follow the same core curriculum in levels one and two where you will learn both the theoretical and practical skills that underpin all the programmes.

Level of entry is dependant on qualifications:
Entry to Year 1 requires an IB score of 30 points with five, five, five at H level or equivalent
Entry to Year 2 requires an IB score of 34 points with six, six, five at H level including biology and chemistry, or A, B, B at A level including biology and chemistry or equivalent
Entry to Year 3 requires advanced diploma qualifications (GPA 3.5 or better) or equivalent

**Year 3**
Choose to specialise in the subjects that excite you in one of our two themes:
- Biological Sciences or
- Biomedical sciences

Many students take advantage of opportunities for summer work placements, normally between Years 3 and 4, which are available as externally-funded competitive placements, or as voluntary laboratory work.

Between Years 3 and 4, you have the opportunity to take a full year out of Dundee on a full-time work placement. This can give you a ‘real world’ perspective on your studies, while further developing your CV.

At the end of Year 3, you may leave with a non-Honours BSc degree in Biological or Biomedical Sciences, an excellent foundation for many careers.

**Year 4 (Hons)**

**Semester 1**
Research project: Several formats are available including laboratory-based research under the supervision of a leading scientist, computer modelling, multimedia teaching packages, literature and electronic database review.

Your studies will involve extensive use of scientific literature and the opportunity to attend a regular programme of seminars given by invited speakers from Britain and abroad.

**Semester 2**
Choose from a range of specialist modules taught by leading researchers from the College of Life Sciences and College of Medicine.

At the end of Year 4, you will either graduate with a BSc Honours degree in a named single subject, or a more general BSc Honours degree in Biological Sciences or Biomedical Sciences.

**Integrated Masters**
The Integrated Masters is a new route which will provide an opportunity for extensive development of your research and analytical skills in the subject area you feel most passionate about.

If you want to do the Masters year, you will need to achieve high scores throughout your studies, as progression into this part of the course will be competitive.

This level will consist of:
- Extended research project
- Research seminars in your chosen area
- Research skills and planning

and will prepare you for the world of biotechnology and pharmaceutical research, both in and out of the academic world.

To learn more about the current research areas you could be involved in please see: www.lifesci.dundee.ac.uk/research
Biological Sciences

The Biological Sciences route begins at year 3 after completion of the core Life Sciences curriculum. The ethos of this programme is to give students a truly research led experience with virtually all lectures given by PIs who are actively researching the subject areas they present lectures in.

With this aim in mind the Biological Sciences curriculum has been designed to align with the world class research currently taking place within the School of Research. The content of the programme has been decided by these PIs. Students will be exposed to the latest findings in these areas with researchers using their research to illustrate theory.

The overall curriculum follows a systems biology approach with students choosing to study specialised areas within this which will then define their final degree topic designation. In semester one of year three, all Research Divisions contribute to four core modules which prepare students for their specialist topics. Each Research Division provides a module in semester two which feature the current research taking place. The choice of specialist topics in levels three and four along with the level four research project will define the designation of the final degree award.

In the Honours year 4, students undertake a practical-based research project in a cutting-edge laboratory environment. This research is supplemented with attendance at seminars and lab meetings to immerse students in the research experience. In semester two a range of advanced theory modules in specialist areas are given by our leading research scientists.

- BSc Biochemistry / Molecular Biology / Genetics
- BSc Bioinformatics
- BSc Cell & Developmental Biology
- BSc Cell Signalling
- BSc Drug Discovery
- BSc Immunology
- BSc Molecular Microbiology
- BSc Plant Sciences

“My Honours project was the best academic experience I had. Hands-on work on an independent research project in a real lab alongside brilliant scientists epitomises the learning experience offered by the University of Dundee.”

Katarzyna Kozyrska, graduated in 2011 with BSc (Hons) Molecular Genetics
Biomedical Sciences

The Biomedical Sciences welcomes you at year 3 after completion of the core Life Sciences curriculum. Our new research-led Biomedical Sciences programme includes opportunities to study core themes Physiology and Pharmacology alongside more-focused studies in Neuroscience and Sports Biomedicine. The programme is designed and run largely by leading researchers from our Colleges of Life Sciences and Medicine, Dentistry & Nursing, including colleagues from the Institute of Sport and Exercise.

In year 3, students are provided with a thorough, contemporary overview of their chosen subject(s) within a modular curriculum. In the Honours year 4, students undertake either a practical-based research project in a cutting-edge laboratory environment or a theory-based research dissertation. These research components are supplemented with advanced theory modules in specialist areas given by our leading research scientists. The choice of module topics in years 3 and 4, along with the subject area of the research project or dissertation, will define the designation of the final degree award.

Critically, the programme will provide students with a firm grounding in current understanding of the structure and function of the human body in health and disease, alongside an ideal opportunity to develop into highly-skilled and knowledgeable scientists whom we expect to flourish in the new era of biomedicine.

BSc Biomedical Sciences
BSc Neuroscience
BSc Pharmacology
BSc Physiological Sciences
BSc Sports Biomedicine

The passion I see in my professors is engaging and dynamic. This has greatly enriched my learning experience here at Dundee and has helped me develop a better understanding in the topics being taught.

Lauren Hooks, spent a semester as a visiting student from the USA

don’t forget...
Dundee is number one in the UK for all-round student experience, and that’s according to the Times High Student Experience Survey 2012/13
Being at the heart of Scotland’s road and rail network puts spectacular scenery, skiing, championship golf, mountain climbing and sailing within easy reach as well as the major cities of Edinburgh and Glasgow.

Scotland’s four main international airports all operate both national airlines such as British Airways and low cost airlines. This makes it easy to get to all the major centres of the UK and Europe.

www.dundee.ac.uk/general/travel

“Being first to undergo the significantly improved and intensified degree structure, stirred up my thirst to ensure that the gained knowledge could be put in to practice and help you to be among the best in your future career.”

Dundee to...
- Edinburgh Airport 1 hour 15 mins
- Glasgow Airport 1 hour 30 mins
- Manchester Airport 5 hours
- Birmingham 5 hours 20 mins
- London 6 hours

Scottish airport flights to:
- Amsterdam Schipol Airport 1 hour 25 minutes
- Paris CDG Airport 1 hour 45 minutes
- London Airports 1 hour

Contact us
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- www.facebook.com/collegeoflifesciences
- @DundeeUniv