UNIVERSITY OF DUNDEE

university of dundee undergraduate

www.dundee.ac.uk

prospectus 2013




























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contents

why should you go to university?

graduate prospects

A university education has always had many benefits – graduates are more likely to get a job than non-graduates, it can lead to a more rewarding or better career and it offers a life experience that stays with graduates forever. For many, these really are among the best years of their lives.

The economic climate of the past three years has only placed more emphasis on the benefits higher education can provide. According to the Confederation of British Industry (CBI) Employment Trends Survey, Autumn 2011:

"The gradual improvement in employment opportunities will provide encouragement for job-seeking graduates, though they still face tough competition. This makes it all the more important for students to use their time in higher education to best effect, not only in terms of study and qualifications but also by taking up the opportunities available to develop a range of work-related skills and knowledge."

Employers are primarily looking to recruit people who have been educated to a high standard and have a wide range of personal and transferable skills. University is the best place to gain that experience and it is university graduates who will form the bedrock of the emergent 'knowledge economy'.

> “The highest average graduate starting salaries in Scotland and 11th highest in the UK.”
>
> *The Sunday Times University Guide 2012*

investment

At Dundee, we believe higher education is an investment for the future. Today's students at Dundee will become tomorrow's doctors, lawyers, teachers, engineers, artists, scientists, entrepreneurs and creative wizards in the UK and around the world.

We strive to ensure that our students get the most out of their time here, that they receive the very best education, experience a wide range of opportunities and ultimately leave equipped to succeed in the modern world.

do your research

Ultimately you are the best person to decide which path your own future will take. Do as much research as you can into the different universities and degree programmes you are considering. Check out prospectuses and university websites and if you are not sure who offers the course you are interested in try the UCAS Course Finder at *www.ucas.com.*

Wherever you decide to study, you need to be as sure as you can be that you will be happy there, especially since it will be your home for 3 or 4 years, or maybe even longer! The best way to gauge this is to visit the university and ask lots of questions about the courses and campus facilities. We hold visit days throughout the year and you can find out more on page 153; just contact us to book your place.
www.dundee.ac.uk/prospectus/visits

Ranked 176th in the World's Top 200 Universities by the Times Higher Education World University Rankings 2011.

why study at dundee?

what our students think…

No. 1 in the UK for student satisfaction in history and politics with 100% of our students satisfied with the quality of their course.

National Student Survey 2011

No. 1 in Scotland for satisfaction in architecture, economics, European studies, history, law, politics, environmental science, geography and planning.

National Student Survey 2011

'I think that Dundee has been and will always be a university for the students. You are encouraged to progress both academically and socially. Everyone I know looks at their time at Dundee University with great fondness and I think it is due to the staff as well as the type of students who choose to come here. I can't speak highly enough of this great institution. A great city, great people and of course a great university!'

Final year BDS Dentistry student commenting in the National Student Survey

transformation

We are an established university with a progressive and dynamic outlook. Never complacent, we constantly strive to build on our achievements: investing in excellent facilities, pushing the boundaries of research and developing new ways of using e-learning.

The University of Dundee is actively pursuing a strategy to excel in research and teaching and to develop a 21st century campus for our students and staff to live and work in.

The landscape of Dundee city centre has been transformed with our highly-praised £200m campus redevelopment. This has included the construction of brand new energy efficient teaching buildings with the most advanced teaching technologies, fantastic ensuite student accommodation with access to what the BBC called a 'superfast' fibre-optic broadband network, extension of the Institute of Sport and Exercise (ise) and Main Library, and culminating in the creation of the Campus Green, providing a beautiful space for students and staff to relax and enjoy campus life.

campus community

We enjoy an unrivalled position in the centre of Dundee, close to shops, theatre and transport links and with outstanding views over the River Tay.

The Virgin Guide to British Universities 2011 described Dundee as "a traditional, premier-league university, but unusually relaxed and friendly", and the city itself has been described as the biggest village in Scotland because of the warm and friendly community spirit.

With 3,000 staff and nearly 18,000 undergraduate and postgraduate students coming to the University of Dundee from all over the UK, Europe and beyond, we have a truly welcoming and diverse campus community.

innovation

At Dundee we are always moving forward. Our academic staff make advanced use of e-learning methods to support and enhance their teaching. Most of our modules are supported online by our virtual learning environment called *My Dundee*, and many use techniques such as online discussions, e-assessment, video clips and podcasts to enhance student learning.

The University has again been named one of the world's top 3 workplaces in an international poll of scientists, and Professor Sir Philip Cohen from our College of Life Sciences, has been named among the '100 most important people in British science' by The Times. His work on protein phosphorylation – a process that controls how cells behave – has improved our understanding of cancer and other diseases.

"The University of Dundee is… an institution regarded as one of the success stories of British higher education."

The Sunday Times University Guide 2011

the perfect city for student life...

student-friendly city

Dundee is home to two distinct universities – the University of Dundee and the University of Abertay – and together they attract around 20,000 students to the city, giving Dundee more students per head of population than any other Scottish city.

Both universities are located in campuses that are in the heart of the city, lending a real buzz to the city centre, with many student-friendly facilities.

The **University of Dundee** is the larger of the two universities and attracts students from all over the world. Our city campus forms the heart of the west end of Dundee's city centre and everything is within easy reach – most residences are on site, and the main shopping area, train station and other facilities are all within five minutes walk.

retail heaven

Dundee has an inspiring mix of shops of all sizes, making for a fantastic shopping experience in a vibrant city centre, five minutes walk from the University's city campus.

The stylish Overgate Shopping Centre hosts all the familiar high street brands and a selection of quirky trading stalls. The High Street, Murraygate and Wellgate Centre add to the 'mainstream' shopping. If you are looking for unique gifts, art and jewellery, a tantalising range of boutiques and galleries is located on Nethergate, Perth Road and Westport.

cafés & restaurants

For a small city, Dundee has a huge amount to offer and an eclectic mix of bars and traditional pubs, cafés and restaurants are located within minutes of the city campus.

Whether you're meeting friends during the day for coffee or heading out for a meal in the evening, there is a wide variety of different places to try, catering for every taste and budget. Thai, Mexican, Italian, Turkish, Chinese, Indian, Mediterranean, American and French cuisine are all on offer in restaurants nearby.

new developments

The Dundee Waterfront Project will reconnect the city with its waterfront. This major £330 million, 30 year project aims to provide a modern, accessible, functional and attractive space for the people of Dundee that will also position Dundee as a leading Scottish centre for visitors and businesses.

www.dundeewaterfront.com

DUNDEE
ONE CITY, MANY DISCOVERIES

www.dundee.com

Dundee, with its setting on the banks of the River Tay, has been described by actor and former University Rector Stephen Fry as "ludicrously ideal".

music scene

The Students' Union has plenty to offer any night of the week but should you choose to venture deeper into the city's nightlife you'll find a wide variety of options.

The live music scene in Dundee is alive and kicking – the city has spawned home-grown indie rock bands like **The View** and **The Law**, and **Snow Patrol** was originally formed by University of Dundee students. There is also a good selection of club nights to suit any musical taste from house to metal. The Caird Hall hosts a steady programme of classical and contemporary concerts, while the **Jazz Festival**, **Guitar Festival** and the **Blues Bonanza** – Europe's biggest free music festival – are highlights on the events calendar.

www.dundee.com/whats.html

dundee

life in the cultural quarter

stimulating campus

As you would expect, the University plays a large part in the cultural life of the city. The hugely popular free **Saturday Evening Lecture Series** was established in 1924 and has attracted the likes of TV historian **Dan Snow**, journalist **Evan Davis**, traveller **Jason Lewis** and V&A Director **Sir Mark Jones** to give public lectures on our city campus.

Literary Dundee has attracted audiences from across the UK and has featured readings from **Ian Rankin**, **Nicci French, Alexander McCall Smith**, **Val McDermid** and **Sophie Hannah**, as well as children's authors, **Joan Lingard** and **Philip Pullman**.

www.literarydundee.co.uk

Dundee Literary Salons were founded by the University's Chair of Creative Writing, **Professor Kirsty Gunn**, author of *The Boy and the Sea* which was the Scottish Book of the Year in 2007. A wide range of literary figures, from editors to publishing agents and writers have appeared to talk about their work.

The University also hosts major exhibitions and events throughout the year, from art produced by our own students to internationally renowned speakers.

www.dundee.ac.uk/whatson

places to visit

For inquisitive minds, the **Sensation Science Centre** offers hands-on interactive exhibits, based upon the five senses. History and heritage themes are explored at **Discovery Point**; home to Captain Scott's famous polar exploration ship 'Discovery', while **Verdant Works** provides an insight into 19th century jute mill life in Dundee.

In the **Mills Observatory**, Dundee has the UK's only full-time public observatory, where visitors can enjoy looking at breathtaking views of the stars and planets.

The **University of Dundee Botanic Garden** has been described as the jewel in the crown of the University. The garden is arranged geographically, so that you can walk through the world's temperate regions from the Mediterranean to East Asia. There is a popular café and gift shop, whilst regular art exhibitions are hosted in the Visitor Centre.

www.dundee.ac.uk/botanic

Reopened in early 2010 after extensive refurbishment, **The McManus** is Dundee's Art Gallery & Museum. Visitors can embark on a journey through 400 million years, and witness how a small settlement developed into the City of Dundee as it is today.

> “Dundee is a city that’s rich in culture, both historical & contemporary. This is a city that punches way above its weight in the arts.”
>
> *The List Guide to Dundee 2010*

cultural quarter

The award winning **Rep Theatre** is adjacent to the city campus and home to Scotland’s only full-time acting ensemble and the Scottish Dance Theatre. The Rep hosts a mix of stage productions including drama, musicals, contemporary & classical dance, comedy, jazz and opera.

www.dundeereptheatre.co.uk

Alternatively, **Dundee Contemporary Arts** (DCA) offers art-house and mainstream films in a two-screen cinema alongside a contemporary art gallery, a print studio and the University’s **Visual Research Centre**.

www.dca.org.uk
www.vrc.dundee.ac.uk

Nearby, the **Whitehall Theatre** offers family, musical and theatrical entertainment, while the **Caird Hall**, in City Square, hosts opera, ballet, comedy and rock/pop gigs, as well as the university’s graduation ceremonies.

www.whitehalldundee.co.uk
www.cairdhall.co.uk

As part of the Dundee Waterfront Project, the University is working with the Victoria & Albert Museum, London and other partners to create the V&A at Dundee. **V&A at Dundee** will be Scotland’s leading centre for design, housed in a stunning new building at the heart of Dundee’s waterfront.

Due to open in 2015, it will showcase Scottish design talent, provide a venue for the V&A’s major international touring exhibitions and promote a wider understanding and application of design. It is estimated that V&A at Dundee will bring hundreds of thousands of visitors to Dundee annually, as well as attracting many creative businesses to the area and creating hundreds of jobs.

www.VandAatDundee.com

Kengo Kuma & Associates winning design for the V&A at Dundee was chosen from over 120 international entries. As an exemplar of 21st century design itself, the building will be a striking statement that will stimulate minds and set the standard for subsequent development of the city’s waterfront area.

our reputation

world leading research

The University of Dundee has an international reputation and continues to attract top-class researchers from across the world in subjects as diverse as medicine, life sciences, dentistry, law, microelectronics, fine art and design, digital media and space exploration.

- The results of the 2008 Research Assessment Exercise (RAE) show that 54% of the University's research is achieving 'world leading' or 'internationally excellent' standards.
- In the RAE, the University is top in Scotland for civil engineering and biological and laboratory-based clinical sciences, all of which were among the top performers in the UK.
- The RAE results also underline Duncan of Jordanstone College of Art & Design's position as the pre-eminent art school in Scotland and places it as one of the best art schools in the UK.
- Our medical and life sciences research is world renowned, with particular expertise in cancer, diabetes, cardiovascular disease and neglected tropical diseases.
- World leading researchers have developed the SpaceWire standard, used by space organisations across the world.
- We were ranked in the World's Top 100 Universities for Innovation (the amount of research income against the number of academic staff), Research Influence (the number of citations) and International Mix (the diversity of the student and staff bodies) by the Times Higher Education World University Rankings 2011/12.

discovery

New research projects are continually launched creating an exciting and challenging environment for staff and students and shaping our future. Some of our current projects include:

- Our Centre for Anatomy and Human Identification uses state-of-the-art forensic science techniques and facial reconstruction to generate images and models from human remains. Most recently the team was the focus of the BBC 2 four part series *History Cold Case* where they also used historical detective work to build a picture of a man's life and death, giving him his face back for the first time in 800 years.
- Our mathematics and medical researchers are using mathematical modelling to gain better understanding into cancer development and treatment.
- Researchers in the Centre for Environmental Change and Human Resilience (CECHR) are working on a number of projects including assessing climate change and impacts on the quality and quantity of water, and considering models of decentralised electricity supplies.
- The Division of Plant Sciences is researching into a process called `alternative splicing' which could have implications for our understanding of how plants and crops adapt to climate change.

Ranked in the World's Top 200 Universities & in Europe's Top 75.

Times Higher Education World University Rankings 2011/12

teaching reputation

The University regularly achieves high ratings in the various published league tables.

We were ranked **2nd in the UK** for Civil Engineering and **4th in the UK** for Medicine and Pharmacology by the Guardian University Guide 2012. They also rated us **1st in Scotland** for Civil Engineering, Pharmacology and Town & Regional Planning. In Architecture, Education, English, Law, Mathematics, Medicine and Philosophy we were ranked in the **Top 3 in Scotland**.

The Times Good University Guide 2012 ranked us **1st in Scotland** for Anatomy and Physiology and Biological Sciences and **2nd in Scotland** for Architecture, Philosophy, Town and Regional Planning and for our Staff : Student ratio.

Finally, The Complete University Guide 2012 ranked us **1st in Scotland** for Anatomy & Physiology and Town & Regional Planning, and in the **Top 3 in Scotland** for Art & Design, Biological Sciences, Civil Engineering, Medicine and Philosophy.

what our students think...

In the **National Student Survey 2011**, students studying History, Politics and Town & Regional Planning were 100% satisfied with the quality of their course!

More than 90% of students were satisfied with the quality of their teaching in Computer Science, Dentistry, Economics, Education, English, Environmental Science, Geography, Law, Medicine, Psychology and Others in Creative Arts.

preparing you for the future

Students at Dundee are uniquely placed to take advantage of developing their employability skills and attributes, much sought after by graduate recruiters.

careers service

Our trained **Careers Advisers** are on hand at every stage of your university degree to assist with career choice, planning, education and information. In addition, we regularly liaise with graduate employers and organise four major **Careers Fairs** throughout the year. Students have the opportunity to use the **JobShop** and **Placement Base** to source part-time vacancies and internships and to undertake one of the Careers Service's modules.

The **Career Planning module** gives you an insight into your own careers profile and options and helps you in presentations, CVs, applications and interview techniques. The **Internship module** allows you to gain some real experience in the workplace undertaking a 30 hour internship or placement in a business, teaching centre or media organisation and combine this with classes covering career planning issues. Both modules carry academic credit and can form part of the Level 2 curriculum. The Career Planning module is also available online.

Our graduates can also continue to access the Careers Service after graduation and thoughout their working career.

personal development

Dundee is at the forefront of developing **Personal Development Planning (PDP)** and every student is encouraged to take part. *My PDP* is an online resource which helps you construct a well-developed CV, underpinned by an understanding of transferable skills, career planning, employability issues and lifelong learning. In some cases this can be part of an e-portfolio which can be viewed by potential employers. The PDP process allows you to reflect on your individual development and helps you decide on your personal and career goals and focus your approach to academic studies and extracurricular activities.

www.dundee.ac.uk/careers/mypdp

graduate skills

In addition, the **Dundee Graduate Skills Award** recognises the value of extracurricular activities that you undertake whilst studying at Dundee. Designed to help students faced with the prospect of an increasingly competitive job market, credit is awarded for various activities such as part-time work, placements, membership of societies, participation in sport and other events.

More importantly, the Award has been endorsed by local and national employers and professional bodies including the Association of Graduate Careers Advisory Services (AGCAS) and the Confederation of British Industry (CBI).

www.dundee.ac.uk/careers/skillsaward

exercising business creativity

Our **Enterprise Gym** gives students the chance to improve their self-reliance and employability through business enterprise skills development from training sessions led by members of the local business community, lectures from visiting 'supercoach' speakers and online resources devised by our own trainers. Our team includes the founder of an award winning Scottish wine-making company, the Studio Manager of a computer games developing business, the former CEO of an energy conglomerate and the Director of a Premier League football club.

E-Gym members also have the opportunity to take residence in the University's Greenhouse – an on-campus facility that gives start-up entrepreneurs the tools and support to help their fledgling businesses grow.

E-Gym Awards

- A recent Enterprise Gym Champion was Bruce Sinclair (24), a graduate who set up 'Pasta U Like', a company offering high quality, nutritious food at competitive prices, and an alternative to the fatty fare usually dished up at festivals.

http://enterprise-gym.com

> "I just want to thank you for producing such great students… easily the most rounded and insightful."

Rory Hamilton, Head of Insights, Live/Work on Dundee's product design students

When they leave, more than 3 in 4 go into graduate level jobs.

The Sunday Times University Guide 2012

supporting you all the way

Dundee has invested £200m in developing a 21st century campus to provide you with the resources and support required for the best student experience possible.

libraries & learning

Support for learning is at the heart of the services the Library & Learning Centre (LLC) offers. Students can contact their dedicated School Liaison Librarian for individual help. The LLC provides access to a wide range of resources in both digital and print formats.

The LLC operates across several sites: the City Campus, Ninewells Hospital and Fife Campus, with an additional 2 satellite libraries in the hospitals at Perth and Stracathro.

LLC services include:

- face-to-face expert support from professional library staff
- an Information Zone (The InfoZone) in the Main Library
- a copy of every recommended book and multiple copies of many key texts
- flexible learning spaces – silent study zones, general study zones ideal for group work, and study break zones
- long opening hours during semester: the Main Library is open from 7.30am to 2.30am Monday – Thursday; 7.30am to 10pm Fridays; 10am – 10pm Saturdays and 10am – 2.30am Sundays.
- access to more than one million books and subscriptions to over 5,000 journals, newspapers and databases
- specialist subject librarians for all academic subjects
- extensive electronic resources including e-books, e-journals, online newspapers, published research materials and image and sound resources which you can access from anywhere in the world
- access to the University's wireless network, laptop charging points and laptop lockers
- 300 networked PCs
- self-service machines which allow you to issue several books/ DVDs at once, pay any fines, renew and return books - all of which reduces the need for queuing.
- learning café situated in the Main Library
- scanning facilities
- dedicated research room (bookable)

www.dundee.ac.uk/library

it facilities

The Information and Communication Services (ICS) team provides a range of information and communication technology (ICT) services to support students in their learning and research activities at the University, including:

- Help4U, Service Desk for IT support and advice to help with your studies.
- over 800 generally available PCs on campus – sited in library study zones and traditional computer suites
- specialist computer labs in subject areas, for example, in media art, engineering and computing
- wireless access, including WiFi printing, available throughout teaching and learning spaces on campus
- access to the University's high speed broadband network (using a cabled network outlet) in all University accommodation
- technical support for students with PCs and laptops in University accommodation
- additional support, software, equipment and training to ensure that ICT is accessible and easy to use for students with a disability

www.dundee.ac.uk/ics

support

Adapting to university life can be challenging, but we offer support in a number of specific areas to enable you to get the most out of your university experience, including:

- academic and English Language skills
- careers
- chaplaincy
- childcare
- counselling
- disability
- health advice and guidance
- international students
- living in University accommodation
- settling into University life
- student finance and funding.

For more information about the support available in each area please see pages 151 - 152.

Rated 5th in the UK & 1st in Scotland for all-round student experience

Times Higher Education Student Experience Survey 2011

my dundee and induction

My Dundee is the University of Dundee's virtual learning environment (vle), giving our students online access to learning materials, student clubs and societies and many other resources, including the University of Dundee email service (dMail).

'Regularly checked my email account on My Dundee, it proved very useful and it is an excellent service. I know students [at other universities] are envious of it.'

Comment from an undergraduate applicant.

meet us online...

twitter

@DundeeUniv

facebook

www.facebook.com/universityofdundee

YouTube

www.youtube.com/DundeeUniv

yougo further

http://yougo.co.uk

www.dundee.ac.uk/prospectus/webchats – to register for an online chat with staff and current students

online module content

All students have a user account on ***My Dundee***, and most modules are supported by online content which could include lecture slides, additional reading, discussion boards, podcasts, video resources, useful weblinks, assessment details, past exam papers and other resources including search tools to locate published articles. You will be able to engage in class discussions, interact with tutors, submit assessments, complete tests and compile your personal e-portfolio to support and document your learning via ***My Dundee*** and have access to various support modules, e.g. IT Resource Centre.

Staff at the University of Dundee are leading the way in the use of e-learning, and have won several awards for their work.

www.dundee.ac.uk/admissions/mydundee

My Dundee for applicants

Once you have applied to the University of Dundee you will be given a username and password to access ***My Dundee*** for Applicants and the University of Dundee email service (dMail).

Via ***My Dundee***, we will show you, month by month, more about the full capabilities of this excellent tool, and at the same time provide more information about the course you have applied to, what you can expect on campus, the clubs and societies, relevant news items and enable you to contact other applicants through our discussion board.

During the summer we will provide further information for everyone joining us in September, e.g. course reading lists, course handbooks, matriculation details and all the information you could ever want about Welcome Week.

be prepared

Giving our applicants access to information on ***My Dundee*** helps you to be better prepared when you arrive here. Students who are well-prepared before arriving tend to settle in easier and adapt to their new surroundings more quickly. The University's Welcome Week team will help you settle into your programme of study, the University campus and to the city.

Welcome Week (also known as Freshers' Week) is the week before classes officially begin and includes a full programme of events – social, sporting and academic – run by the University in partnership with Dundee University Students' Association (DUSA).

Specific events are arranged for students who live locally and are planning to stay at home so that they can meet other new students before Welcome Week. We also arrange sessions during the first weekend of Welcome Week to give students' families more information about life at the University of Dundee.

www.dundee.ac.uk/welcome

"My Dundee is a great way to meet friends before arrival. Good ice breaker!"

home from home
accommodation

"The broadband connection (in the student residences) was so fast we could barely time it."

Rory Cellan-Jones, BBC Broadband Britain

£37 million investment in Dundee Student Residences with all accommodation now ensuite.

investing in you

We have invested £37 million in our student accommodation so that our students have a modern, safe and well equipped place to work, rest and make friends.

Living and working on campus enables you to throw yourself right into student life, experience the very best that the campus and city have to offer and meet people who will probably end up being your closest friends for the rest of your life.

Our 900 single rooms on campus and over 400 across the road provide the perfect environment for students, just 5 minutes from the city centre and 2 minutes from lecture theatres. We also have 300 rooms between the city campus and Ninewells Hospital which are a 20 minute walk away. We have a Student Support Worker and Assistants on hand to help students as well as night security personnel.

fast connections

We attract students from all over the UK and from over 80 different countries. Dundee has even been named one of the world's top seven intelligent communities and one of the friendliest cities in Scotland, making our University residences the ideal place to make friends with some of the most interesting people on the planet!

Dundee is the first Scottish city to be part of the Fibrecity® communications network, offering high speed internet through fibre optic cables and our bedrooms have super fast broadband cable connections allowing you to easily keep in touch with old friends and stay up-to-date with your studies online.

no hidden costs

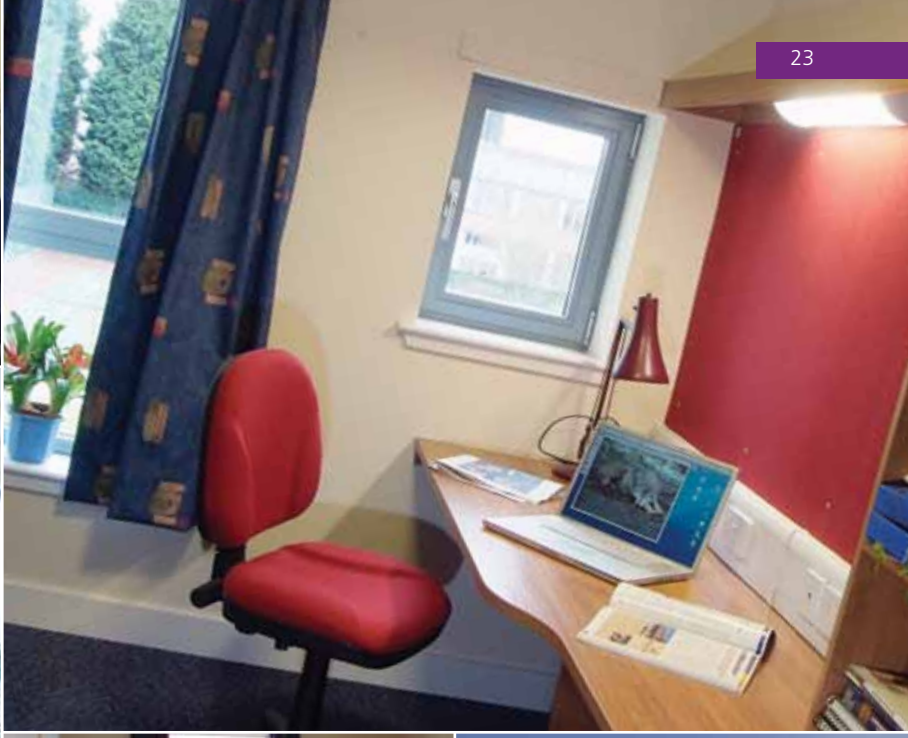
Staying in University residences means there are no hidden costs as all electricity costs, general maintenance and personal property insurance are included in our price. There is no deposit required for our residences as prepayment of £300 secures your accommodation and is then deducted from the first rental payment. You can pay the whole amount upfront, or set up a monthly recurring card payment – whatever is easiest for you.

our promise

At Dundee we are proud to guarantee accommodation to all new students at the University who apply before the deadline. Our residence contracts cover the whole academic year (39 weeks from September to May) so you can leave your belongings in your room if you decide to go home for the holidays. Longer contracts are also possible for students who need to stay in Dundee during the summer period.

In addition, Dundee has a wide range of competitively priced private accommodation close to the University campus. Our Students' Union offers free legal advice to help with matters such as leases.

See page 143 for more details on University accommodation.




BASS
ORGY


iWALL


the Union

our award winning students' union

dusa

Dundee University Students' Association (DUSA), better known as 'the Union', is one of the most successful students' unions in the country. Located at the heart of the city campus, the Times Higher Student Experience Survey 2010 rated it as the **best student union in Scotland** and 4th best in the UK. It's also the highest rated student union in Scotland according to the **WhatUni Student Choice Awards 2011**.

The Students' Association exists to promote and represent the interests of the student body at the University. The Association aims to provide the highest level of social, recreational, advice and support services to all members, irrespective of age, gender, background or beliefs. All profits revert back into enriching the student experience in Dundee.

As well as being a stylish, contemporary bar and nightclub, the Union also plays a vital role in providing help and support for students by students and hosts a variety of student societies for all tastes.

As a student-led organisation DUSA responds rapidly to the particular needs of their membership, whilst openly welcoming and encouraging their contribution to the workings of the Association.

www.dusa.co.uk

services

The Union is the perfect place to find everything you might need between lectures. The **Premier Shop** is a large convenience store (managed by the Students' Association) which sells everything from groceries and magazines to stationery and lab coats. The **i-Wall** has 10 computers linked to the University network enabling you to browse or check emails while waiting for friends and the **Pool Hall** contains 18 pool tables and the latest in video games and quiz machines.

The Union has become renowned for its fantastic food which includes **Yum Yum** on Level 4, offering a fast food takeaway service covering everything from breakfast to late night party snacks as well as the hugely popular all-you-can-eat buffets during the week. **Air Bar** provides table service with fine coffee and **Liar Bar** serves fast lunch buffets during the day. Proving that your money goes a bit further in Dundee, our shops and bars were ranked **Top in the UK for value for money** by the Student Experience Survey 2010.

The University also hosts a **Citizens Advice Bureau** and **Student Law Clinic** in DUSA, where you can access consumer, legal, benefit and debt advice.

get involved

Students are encouraged to get involved on a number of levels and thereby have a chance to influence decisions made by the University or DUSA. Whether you choose to run for election or just participate by voting in student elections, everyone has the opportunity to have their say. There are eight levels of representation that all students are encouraged to get involved with: DUSA Executive Committee, Student Representative Council (SRC), School President, Class Representatives, Sports Union Executive Committee, Flat Representatives (in University accommodation), Society Council and Independent Court Member.

Representing your peers at university level gives you the opportunity to learn how a large university operates and develop personal networks and employability skills.

student media

If you fancy a career in media or just want to do something a bit different, why not get involved with **Discover Radio**, DUSA's own internet radio station, **DUSA TV**, Scotland's leading student television channel, or **The Magdalen**, the University's student magazine? Visit the websites below to find out more: *www.discoverradio.org, www.dusa.tv, www.themagdalen.co.uk*

societies

DUSA supports over 80 societies including: Alpha Iota (Society and Fraternity), Architecture Society (ADAS), ART Society, Bands Society, Debating Society, Development and Research Expeditions (DARE), English Lit and Film Society, International Students Society, Law Society, Lip Theatre Company, Mooting Society, Music Society, Operatic Society, People and Planet Society, Photography Society, Poker Society, Roleplaying Society, Scottish Country Dancing Society, Yoga Society, Young Entrepreneur Society plus numerous political and religious societies.

nightlife

With a capacity of 900, **MONO** is the nightclub at the heart of the Union, and also stages a variety of themed events including the legendary Halloween and St Patrick's Day parties.

On the music front, recently hosted bands and DJs include Pendulum, Sub Focus, Charlie Simpson, Lisa Lashes, Pete Tong, Maxi Jazz, Sister Bliss (Faithless), Example (live) Groove Armada. Radio 1 DJs such as Vernon Kay, Trevor Nelson, Zane Lowe and Edith Bowman make regular guest appearances. The Union also offers **Floor 5**, an alternative clubbing venue for those into drum & bass, indie and guitar rock sounds, as well as two more bars - the **Liar Bar** and **Air Bar**. The bars also serve fine coffee and fast takeaway food throughout the day and offer a range of entertainment at night, from karaoke and open mic to big screen sport.

sporting facts

ise

ise (Institute of Sport and Exercise) has a wide range of high class facilities. On campus we provide:

- a huge state-of-the-art-gym
- 2 exercise studios
- 3 new glass-backed, competition standard squash courts
- a designated performance centre
- a specialised dance/indoor cycling studio
- a 25m swimming pool with sauna
- 4 newly resurfaced, floodlit, all-weather tennis courts
- 2 large indoor sports halls.

The facilities are complemented by our excellent services. We offer:

- campus sport leagues and events - for fun and social competition
- personal training - to motivate you in the gym
- an extensive range of exercise classes - to suit all exercise tastes and levels of fitness
- dance courses - to nurture and challenge your creative side
- swimming courses and classes - from learn-to-swim for beginners, swimfit for experts and private tuition for all levels
- sports scholarships - to empower students to combine academic study with high level competition and training
- Performance Centre - to provide sports science and strength and conditioning support for sports clients, with particular expertise in golf and football
- a large range of support services - like physiotherapy, sports massage and our inch loss courses.

At our Riverside Sports Grounds we provide:

- 33 acres of playing fields
- 2 specialised all-weather pitches – one for hockey and one for other sports.

The quality of our facilities is reflected in ise's selection as a 2012 pre-Olympic training venue.

www.dundee.ac.uk/ise

dundee university sports union

The Sports Union is run by 7 elected students who ensure all your sporting wants and needs are met. If there isn't already a club for your sport, come and speak to us and we'll help you set one up. Each Sports Union club is run by its own committee which is made up entirely of students. Being on the club committees gives you the opportunity to shape, guide and develop your club, take on responsibility and improve your organisational and leadership skills. So whether you're a budding athlete, a sporting fanatic or you just want to get fit and make friends, the Sports Union has a place for you!

The choice is yours...

Archery, Athletics and Cross Country, Badminton, Basketball, Boat (Rowing), Boxing, Canoe, Cricket, Cycling, Dance, Equestrian, Fencing, Football, Gaelic Football, Golf, Hockey, Hurling, Judo, Karate, Lacrosse, Netball, Rucksack (Climbing and Mountaineering), Rugby, Sailing, Shinty, Ski and Snowboard, Skydiving, Squash, Sub Aqua, Sunday League Football, Swimming and Waterpolo, Tae Kwon-Do, Tennis, Trampoline, Triathlon and Mountain Bike, Ultimate Frisbee and Volleyball.

www.sportsunion.dundee.ac.uk

www.facebook.com/sportsunion

dundee university sport

Dundee University Sport is the partnership between ise and Dundee University Sports Union, providing a single infrastructure for the development and delivery of sport at the University and encompasses Team, Club and Campus Sport.

Team Sport: university sports teams compete on the local, regional and national stage with the specific focus of competing successfully in the British Universities Championships. The commitment and ambition of team members is impressive and the hard work in training is often rewarded with league titles and success! Individual and team sport scholarships ensure that the most talented individuals are supported in achieving their sporting goals.

Club Sport: the activity - both sporting and social - that takes place in university sports clubs is one of the most memorable parts of the student experience while at university. Lifelong friendships, bundles of laughs and memories go alongside some great sporting choices at Dundee.

Campus Sport: want to play recreational sport without any additional commitments or training? Then Campus Sport is for you! Fun sport in a relaxed, informal setting - the perfect antidote to the strains of study!

www.dundee.ac.uk/ise/dundeeuniversitysport

our international community

The ease and speed of communication, travel, trade and international interaction is bringing a global dimension to our community and society. In preparing our students and pursuing our research we are aware of the increasing importance of the international dimension and we are committed to continuing to foster an environment which embraces diversity and brings a richer experience to our students, staff and the community in which we operate. Our research reputation has drawn staff from all over the UK and from 65 countries within Europe and overseas, from Algeria to Zimbabwe. Our international students have joined us from 83 countries to make up 13% of our student body.

what our students think...

'The University has a wonderful environment and really makes you feel at home. The clubs and societies are great and the people I've met here have really made my experience great. Dundee feels like my home now and I really feel like the University atmosphere has helped with that.'

Quote from an American student in the International Student Barometer Survey

'My Erasmus experience was wonderful. It was an interesting experience in which I learned so much, both artistically, academically and personally. The experience was extremely rewarding for new inspiration and renewed perspective on my studies. I would advise exchange students to get involved with everything they can, and take on each experience with enthusiasm and optimism and you cannot go wrong!'

Eilidh McKay is currently studying for a degree in Art, Philosophy, Contemporary Practice and spent a semester at L'École Superiéure des Beaux d'Angers, France

warm welcome

Dundee has a long tradition of welcoming students from all over the world who enjoy the warmth of the Dundee people, 1400 hours each year of Dundee sun and a great experience.

Our **International Advice Service** helps our international students settle into Dundee by organising cultural excursions and opportunities to meet other students during the first few weeks, and is available to give advice on a range of issues, such as visa extensions, throughout the year.

www.dundee.ac.uk/international/support

study abroad

We support and encourage students to take part in the many exchange schemes available. Our **Erasmus Exchange Scheme** has agreements with over 80 institutions in 21 European countries. Students can spend one semester or one academic year at a European institution or undertake a work placement.

Our **Transatlantic Student Exchange (TSE)** offers students the opportunity to spend a year in North America, whilst our **Australasia Student Exchange** has agreements with institutions in Australia, Hong Kong and New Zealand.

Final year medical and dental students can travel to any hospital worldwide to undertake a period of elective clinical study.

See page 145 for more details.

www.dundee.ac.uk/prospectus/studyabroad

"If I had to use one word to describe my Erasmus experience it would be 'amazing' – just do it!"

Aoife Duffy, law student, went to the University of Granada, Spain

our green credentials

green buildings

The Dalhousie Building won the 2008 Green Gown Award for Energy and Water Efficiency. This £15 million building was designed so that we could utilise the low grade heat from our Combined Heat and Power (CHP) plant. It also uses solar shading, heat recovery systems, intelligent lighting and water controls. In 2007, the Queen Mother Building was Highly Commended in the Green Gown Award Sustainable Construction Category. We have an ongoing maintenance programme to update lighting, fit new sensors, install more insulation and fit 'A' rated energy goods into buildings.

green commitment

Wherever possible, we communicate with our applicants via email and most of our marketing information is available online. This prospectus was printed on paper from sustainable sources.

All our IT Suites print double-sided and use recycled paper. You will find recycling points in the courtyards of our residences, around the campus, and the City Council supplies most private accommodation with recycling bins. There are over 1,000 paper recycling bins across the city campus and recycling figures have risen to 45%. The University and the City are working hard to increase recycling and reduce landfill waste.

We also work with a local organic nursery to enable students and staff to buy fruit and vegetable bags which are delivered to the campus.

green savings

The University was the first in Scotland to have a Combined Heat and Power plant in 1996. It works so well we are exempt from paying Climate Change Levy. We are working with our Botanic Gardens on a tree planting scheme to reduce the impact of our carbon footprint. The University has signed up for the Carbon Management Programme committing us to producing a 5-year plan on climate change/carbon reduction.

green courses

We have several research groups with expertise in environmental areas, including water and energy related issues. The Centre for Environmental Change and Human Resilience (CECHR) is an exciting new research initiative between the University of Dundee and the James Hutton Institute. CECHR provides a hub for interdisciplinary research addressing how societies can increase their resilience to environmental change and promote sustainable futures. In recent years, we have developed cutting edge courses in:

- Concrete Engineering & Environmental Management
- Environmental Law & Policy
- Environmental Sustainability
- Renewable Energy & Environmental Modelling
- Advanced Sustainable Urban Design
- Sustainable Catchment Management
- Water Law, the only UNESCO centre of excellence in the UK.

green travel

Being a city centre campus, walking and cycling are the most convenient and accessible ways for students to travel within Dundee. All of our city campus residences have secure bike parking and bike racks are provided across all campuses. 'Recycled' bike sales are organised throughout the year on our city campus and cycle maps of Dundee are widely available on campus.

fairtrade

In 2008, the University of Dundee was granted Fairtrade status by the Fairtrade Foundation. The University and the Students' Union work hard to supply and stock Fairtrade-approved goods wherever possible and also run events to support Fairtrade Fortmight annually. The City of Dundee was the **first Scottish city to be named a Fairtrade city** in 2004, to reflect the high number of retail and catering outlets supplying fairly traded goods.

biodiversity

Our Botanic Garden is set in 9.5 hectares, just over a mile from the city campus near the banks of the River Tay. It features many species of indigenous British plants as well as representative collections of important plants from all the continents of the world. To help increase biodiversity on campus we sowed a woodland shade mix of British native plants under trees near the Main Library in 2009 and the area is gradually improving with age.

www.dundee.ac.uk/estates energy&environment

making your application

For all full-time higher education courses at universities and colleges in the UK, students must apply online via UCAS. (See page 144 for more details.)

how your application is dealt with

Once we receive your application from UCAS it will be assessed by an Admissions Tutor. To ensure our selection is transparent, consistent and fair you may not receive a decision from us until after the 1st February. This is to ensure we consider all applications received by the UCAS deadline equally.

We carefully consider all aspects of your application including your qualifications, personal statement and reference before making a decision about whether to offer you a place. We inform UCAS of our decision and UCAS pass this information onto you, the applicant.

All applications received by the appropriate deadlines (October 15 for Medicine and Dentistry, January 15 for all other applications) will be given equal treatment. Any applications received after these dates will be treated as 'late' and may not be considered.

interviews, portfolios & selection tests

The courses which require an interview at Dundee are:

- Architecture
- Dentistry
- Digital Interaction Design (+ portfolio)
- Education
- Medicine
- Nursing
- Oral Health Sciences
- Product Design (+ portfolio)

The courses which require a selection test at Dundee are:

- Community Learning and Development
- Social Work

The courses which require a portfolio at Dundee are:

- Animation
- Art and Design (General Foundation)
- Art, Philosophy, Contemporary Practices
- Digital Interaction Design (+ interview)
- Fine Art
- Graphic Design
- Illustration
- Interior Environmental Design
- Jewellery and Metal Design
- Textile Design
- Product Design (+interview)
- Time Based Art and Digital Film

The above courses require this additional round of selection to help determine your suitability. Each course runs an individual interview or selection programme, so there are no set dates or times for interviews or tests, but generally they take place between January and April.

If there are dates when you are unavailable for interview (e.g. due to examinations) you can mark these in the appropriate space on your UCAS application.

If you are applying to a course that requires an interview, portfolio or selection test we will provide guidance of what is expected of you once we have made our initial assessment after the UCAS deadline.

application calendar

Our application calendar on page 144 lists all the key dates to be considered when applying to university.

advanced entry

Traditionally in Scotland the majority of Honours degree courses are of four years duration. However it is possible to complete a large number of our honours degree programmes in three years by starting at Level 2, provided you have met the minimum entry requirements. This is known as 'advanced entry'.

Additionally, from 2012 onwards, some degree programmes will be offered for the first time as discrete 3 year Honours degrees, eg. LLB English Law. More details about these exciting new developments can be found on the relevant course pages.

entry information

On each course page, Level 1 entry requirements are given for the standard qualifications held by the majority of applicants (see table opposite). Where relevant, Level 2 entry requirements are also given under the heading 'Advanced Entry (to Level 2)'.

For most courses, applicants with A-Levels should consider applying for Advanced Entry (to Level 2) as this offers the best transition from A-Level courses.

The prospectus states the typical minimum entry requirements, required from the first examination sitting. You may therefore receive an offer with higher conditions if you have not met these requirements in one sitting or if we receive a higher than expected number of applications for a particular course.

abbreviations used in the course pages

The following table shows the abbreviated titles of entry qualifications which are used in this prospectus and the grades which we accept as passes:

Examination Board	Qualification	Abbreviation	Pass Grades
Scottish Qualifications Authority (SQA)	Higher Advanced Higher Standard Grade Intermediate 2	H AH SG Int2	A-C A-C 1-3 A-C
General Certificate of Education (GCE)	A-Level AS Level GCSE	A-L AS GCSE	A-E A-E A-C
Irish Leaving Certificate (ILC)	Higher Level Ordinary Level	H Ord	A-C A-C
International Baccalaureate (IB)	Higher Level Standard Level	HL SL	4-7 4-7

Please note, when 'Higher' is used without abbreviation it covers SQA, ILC and IB qualifications at this level.

other qualifications

A variety of other qualifications are also accepted for entry and details of these are given in a table on page 138. These include:

- SQA HNC/HND
- Scottish Baccalaureate
- SWAP Access Programme
- EDEXCEL HNC/HND
- EDEXCEL BTEC Diplomas
- Advanced Diploma
- Welsh Baccalaureate

For international or EU applicants, please visit *www.dundee.ac.uk/prospectus/yourcountry* for details of the equivalent qualifications accepted from each country.

English language pass

For entry to all courses a minimum standard of English language is required. This should be at least Standard Grade 3 or GCSE Grade C or ILC Ord at C or IB SL at 4. For entrants whose first language is not English an IELTS score of at least 6.0 (or equivalent) is essential.

For some courses there may be good reason for stipulating an English qualification above the minimum. Please visit the programme web pages for details.

essential subjects

Please check the course entry requirements for any essential subjects including the level of pass specified. Please see our website for details of which subjects are accepted as 'a Science' if not specified on the appropriate page. Remember to check both subjects for Joint Honours entry requirements.

Please see the **admissions enquiries** on page 152 for details of who to contact if you have any specific questions not answered here, or visit *www.dundee.ac.uk/prospectus/howtoapply* for more information.

a-z course listings

On the following pages you will find information about the degrees we have available. Please visit the relevant programme web page for further information about each course, including additional student and graduate profiles and examples of creative work for relevant courses.

An **A to Z course listing** is given on page 34.

a-z course listings

accountancy

minimum requirements

SQA Higher:	**ABBB**
GCE A-Level:	**BBB**
ILC Higher:	**ABBB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	English & Mathematics (SG at 2, Int2 at C, GCSE at B, Ord at B, SL at 5).

advanced entry (to Level 2)

SQA Advanced Higher:	**BBB**
GCE A-Level:	**BBB**
IB Diploma:	**30** points 5, 5, 5 at HL
Essential subjects:	Mathematics, economics and accounting (AH, A-L, HL) and English (SG at 2, Int2 at C, GCSE at B, Ord at B, SL at 5).

other qualifications

Please see 'Accountancy' on page 138 for details.

degree programmes (with UCAS Codes)

BAcc Accountancy	N400
BAcc Accountancy with…	
Business Finance*	N400 (ABF)
Management & Information Systems*	N400 (AMIS)
a Language (French, German or Spanish)*	N400 (AL)
BAcc Accountancy (3 years without Honours)	N410
BSc Accountancy and…	
Applied Computing	GN44
Mathematics	GN14

* To apply for the BAcc with an additional option, please enter the relevant option code (in brackets above) under 'Further Details' in the 'Choices' section of the UCAS application.

See **making your application** on page 32.

professional accreditation

The BAcc is fully accredited and recognised for exemption purposes by all the leading accountancy bodies in the UK and Ireland (ACCA, CIMA, CIPFA, ICAEW, ICAS and ICAI).

> Both the School and the Careers Service were great at organising plenty of career sessions with employers.
>
> *Final year student comment from the National Student Survey*

why study at dundee?

At Dundee, we aim to help you develop the skills and techniques that employers consider vital for entry into a variety of rewarding careers in accounting.

The Bachelor of Accountancy (BAcc) focuses on international reporting practices and especially those in the UK and Ireland. It allows you to have a better understanding of accounting practices, regulations and standards in an increasingly globalised accounting and reporting environment. Throughout your BAcc studies, we want you to understand the power, limitations and financial techniques of accounting and how they can help society to function.

Our staff are committed to providing a stimulating, supportive and friendly environment for our students. This commitment was recognised by the latest National Student Survey (2011) in which 94% of accountancy students said they thought staff were good at explaining things.

Guest lectures are often given by experienced accounting and finance practitioners and outside visits are also organised to help you appreciate the 'real world' application of the discipline. Students may also spend a year of their degree in North America on the Transatlantic Exchange Scheme or a semester in Australia or Hong Kong.

employability

The BAcc can enhance your employability by developing your numeracy, analytical abilities, computing expertise and your interpersonal and communication skills. Our accountancy degrees are therefore designed to prepare you for either a career as an accountant or for the wide variety of other careers that benefit from a business education.

Your career is important to us and the professional relevance and accreditation of the BAcc degree is kept under careful review. We liaise with employers to ensure that the BAcc continues to meet the needs of the graduate employment market. About two thirds of our graduates go on to professional accountancy training while the rest embark on the huge range of other careers that are open to accountancy graduates.

Our graduates are to be found working all over the world in a variety of interesting and challenging jobs. In the accounting profession, many work with large international accounting firms (the 'Big Four'), or with smaller firms in Scotland and throughout the UK. Many work for other commercial organisations including financial institutions, manufacturing companies, and in the public sector.

teaching and assessment

Your degree will include a good grounding in professional knowledge and skills as well as exposure to many of the latest developments in accounting research to which our staff make a major contribution.

You do not need any prior knowledge of accounting to be accepted for the BAcc. Our entry requirements are designed to ensure a reasonable standard of both numeracy and literacy but no specialist knowledge is required (except for advanced entry).

Our programmes are delivered using a variety of mechanisms: lectures, seminars, workshops, tutorials, projects and hands-on computer labs.

Assessment is by a mixture of coursework (for example an essay), computer labs, projects based on group assignments and exams.

The weighting allocated to coursework and the final examination varies from module to module. Typically 80% is allocated to the final exam but this is less in some modules and higher in others.

In the first two years of the BAcc, three modules are delivered per semester, each having approximately 5 hours of classes. We expect students to undertake an additional 20 hours of individual study per week to prepare for classes and revise material covered in lectures or tutorials.

what is the best thing about your course?

"The support you receive from the staff is brilliant. They are very welcoming and friendly and very approachable. Whether you are struggling with something said in a lecture or a piece of coursework, or even if you just fancy a chat over coffee with your adviser of studies they are always there to help. It is a great comfort to me to know they are there when I need them."

Morgan Robb, 3rd year BAcc student

what our graduates are doing

Connor McCullagh graduated from BAcc Accountancy in 2004. After graduation he completed an MSc in Human Resources Management and is now working as a European Compensation and Benefits Analyst. He says, "Working in compensation I analyse a lot of data and costings on a daily basis. The teaching I received at Dundee has been priceless in preparing me for the world of employment and I am sure it will continue to do so in whatever career path I follow."

programme content • typical degree programme example

For the BSc degrees, please refer to the **BSc degree structure and overview** on page 134.

BAcc Honours degree →

Advanced entry BAcc Honours degree →

Level 1

- Introductory Financial Accounting
- Introductory Management Accounting
- Introductory Financial Management
- Statistics
- International Business Environment
- Information Systems

Level 2

- Intermediate Financial Accounting
- Intermediate Management Accounting
- Intermediate Financial Management
- Financial Decision Analysis
- Management and Information Systems
- Business Law

Level 3

- Advanced Financial Accounting I
- Advanced Management Accounting
- Advanced Financial Management
- Auditing
- Financial Reporting Theory
- Taxation

Level 4

Five options (see website for full list)

Depending on the student's chosen specialism, one of the following:

- Financial Accounting and International Reporting
- Financial Management Theory
- Advanced Management & Information Systems
- Practical French or German or Spanish

Please visit the programme webpage for a list of Level 4 module options.

american studies

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None, but see entry requirements for other joint Honours subject.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points 6, 6, 5 at HL
Essential subjects:	None, but see entry requirements for other joint Honours subject.

other qualifications

Please see 'Humanities/Economic Studies' on page 140 for details.

degree programmes (with UCAS Codes)

MA American Studies and...

Business Economics with Marketing	TLN0
English	QT37
Geography	LT77
History	TV71
International Relations	LT2R
Philosophy	TV75
Politics	LT27
Psychology	CT87

See **making your application** on page 32.

American Studies at Dundee was in the UK's Top 5 for student satisfaction.

The Times Good University Guide 2012

why study at dundee?

Dundee is the only Scottish university to offer joint Honours degrees in American studies.

Looking beyond the stereotypes to explore the complexities and contradictions of the United States, our American studies degrees deal with the issues which are important today - issues of gender, race and ethnic relations, economic and political conditions, as well as exploring the impact of popular culture on the development of American society.

American studies is grounded in the traditional disciplines of history, literature, politics and philosophy and offers you the chance for true interdisciplinary study.

This means you will learn how to make connections between different subjects, for example, you can study the history of America through its literature, or use film to understand changes in American society.

You will also have the opportunity, through our Transatlantic Student Exchange (TSE) programme, to study in one of a number of universities in the US or Canada, as well as having top scholars and visiting guests share with you their experiences of the culture of America.

employability

An American studies degree provides you with a broad range of transferable skills which are both important and persuasive to employers.

As well as expanding your knowledge, you will also develop:

- analytical and critical skills
- the ability to integrate large quantities of complex information
- the ability to argue rationally, cogently and persuasively, both orally and on paper
- excellent communications skills.

A degree in American studies can lead to a wide range of career options. Recent graduates have gone into such diverse fields as journalism, politics, information technology, teaching, banking, human resources, the civil service and areas of entrepreneurship. Some graduates have continued their studies with us at postgraduate level, studying one of a range of MLitt Humanities programmes on offer.

teaching and assessment

All the core teaching in American studies comes from the varying perspectives of history, literature and politics.

Our Level 2 modules are taught by a team from across the School of Humanities to discuss common topics and periods from different disciplinary perspectives. Modules in Levels 3 and 4 are taught by subject specialists within the School, all of whom are active researchers within the field. Many of our modules use different media (film, video, music, novels, etc.) to examine common themes with different approaches.

Methods of teaching vary due to the interdisciplinary and multidisciplinary approach that we take. Initially, the teaching is mainly through lectures and small group tutorials of about 10 students and in Levels 1 and 2 you can expect to have approximately 3 hours of contact per week for each module. As you progress into Levels 3 and 4 many more courses are seminar-based, where you will take an active part in discussions and research. Dundee has excellent IT facilities and multimedia is used extensively.

Assessment also varies with module choices. Most combine essays with class presentations and end-of-year exams. Some Level 3 and 4 courses use continuous assessment for their final marks.

what our students say

Susan Deas is in Level 3 of the MA (Hons) American Studies and International Relations. She says,

I chose Dundee because the course really appealed to me and Dundee is the only university in Scotland which offers American studies. There is a diverse range of subjects to study, including many aspects of politics, history and English.

programme content • typical degree programme example

Please refer to the **MA degree structure and overview** on page 135.

MA Honours degree

Advanced entry MA Honours degree

Level 1

A total of 6 modules including:

- The Globalising World (core module)

and at least one Level 1 module from English, history or politics

Level 2

A total of 6 modules including:

- America: Land of the Free?
- Classic Hollywood: An Excessively Obvious Cinema (recommended)

and at least one Level 2 module from English, history or politics

Level 3

A total of 4 modules, two of which may be chosen from:

- American Literature
- Early American History
- Governing the USA
- Race and Region: The American South
- The Politics of Transatlantic Relations

plus two modules in the other joint Honours subject

Level 4

A total of 4 modules, two of which may be chosen from:

- American Studies dissertation
- American Modernist Poetry
- Crime and Detection in American Fiction
- Holland on the Hudson: the Dutch in the Atlantic World
- Surveillance in a Post 9/11 World
- The American Civil Rights Movement
- The Early American Frontier
- US Foreign Policy since 1945

plus two modules in the other joint Honours subject

applied computing

minimum requirements

SQA Higher:	**ABBB**
GCE A-Level:	**BBB**
ILC Higher:	**ABBB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	Two sciences (Higher, A-L, ILC H, HL) and mathematics (SG, Int2, GCSE, Ord, SL).

advanced entry (to Level 2)

SQA Advanced Higher:	**BB** + **BB** (H) in different subjects
GCE A-Level:	**ABB**
IB Diploma:	**34** points 6, 6, 5 at HL
Essential subjects:	Two sciences (AH, A-L, HL) and mathematics (SG, Int2, GCSE, Ord, SL) and completion of the University's Java Online module.

other qualifications

Please see 'Computing' on page 138 for details.

degree programmes (with UCAS Codes)

BSc Applied Computing	G410
BSc Applied Computing and…	
Accountancy	GN44
Economics	GL41
Financial Economics	GLK1
Mathematics	GG14
Psychology	CG84
BSc Computing and Cognitive Science	GC48

See also degrees in:
BSc Business Computing (page 70)
BSc Computing Science (page 78)
BSc Digital Interaction Design (page 82)

See **making your application** on page 32.

professional accreditation

Our main computing degree - BSc (Hons) Applied Computing – is accredited by the British Computer Society, which is the Chartered Institute for IT professionals in the UK and abroad.

why study at dundee?

We strongly believe two things:

- software should satisfy the needs of the people who will be using it
- the process of software development is rewarding and fun.

Because we hold these values, our computing degree is rather special. We focus on software engineering and user centred design rather than mathematics. As a result, our graduates are successful, employable, employed and proud of what they do. In particular they write software that people can actually use.

BSc (Hons) Applied Computing is a degree for people who are creative, problem-solvers, good team-players and who enjoy a challenge. It is about the satisfaction of software development, not about office applications.

Our course is modelled on good practice in industry, and we update it annually to safeguard its relevance to the real world. It is successful too - our students are nationally recognised for the quality of their project work.

Students can use a range of equipment such as servers, Macs, Arduino systems and programming kit for games consoles such as the Nintendo Wii and Sony Playstation. The School of Computing is also home to one of only two Microsoft Surface tables in Scotland.

We know how important it is to be at the leading edge of computing and so you will learn from research-active staff. Leading researchers teach from your first year through to your final year. Our small classes mean that we really get to know you, making for an informal and supportive community.

Industrial collaboration is part of our ethos too, so we regularly include guest experts from industry.

employability

Our students are highly employable.

- They develop the expertise that employers want from computing graduates – our Industrial Advisory Board includes experts from a range of industries including Northface Ventures, NCR, Chevron and Amazon.
- They work directly with the real world – international forum discussions in Level 1, .NET web application development for an external client in Level 2, internet authoring mashup in Level 3, and an industrial team project in Level 4.
- They can gain work placement experience for degree credit – if you want, take a work placement in the summer vacation between Level 3 and Level 4 – it gives you valuable 'real world' work experience and a good insight into working in the computing industry. Recent work placements have been with Microsoft, NHS, Avian, Yahoo!, NCR and Cohort Studios.
- They are prepared for a wide range of good career prospects in computing –The UK faces a massive shortage of graduates qualified to fill the 120,000 new jobs in computing and IT every year.

teaching and assessment

We know that the best way to learn how to design good software is to practise designing good software. You will learn to apply good software engineering principles, whatever the language or technology or platform - Java, C++, VB.NET, C#, XML, J2EE, ASP.NET, SQL, OpenGL, PC, UNIX... We will teach you the theory underlying software and system development at the point of need.

You will be assessed by a combination of practical coursework (20% - 50% of a module mark, typically) and end-of-semester examination. Coursework is often very practical, for example writing computer programs, designing interfaces, writing reports, constructing web sites, testing software, implementing databases, analysing problems or presenting solutions to clients.

what's the best thing about your course?

If you are passionate about computing and want to get stuck into technology that can change the way we see our world today, then applied computing is the course for you. In the School of Computing you will not only learn how to work with technology but how to apply the skills and knowledge that you learn within the course to the outside world.

Shazia Akbar, graduated in 2011 and is now studying for a PhD in the School of Computing

programme content • typical degree programme example

Please refer to the **BSc degree structure and overview** on page 134.

BSc Honours degree →

Advanced entry BSc Honours degree →

Level 1

- Software development – Java programming, data structure and algorithms
- Web authoring – understanding what the Internet can be used for, and developing websites
- Argumentation – critical thinking and problem solving in a computing context
- People-centred computing – emphasising theoretical and practical aspects of human-computer interaction
- Physical computing – creating useful widgets based around small programmable devices

Level 2

- Software development – C++ and data structures, object-oriented design of software
- Computer systems – C, C#, Unix and the development of computer hardware
- Algorithms and artificial intelligence
- Information technology

Level 3

- Database systems
- Internet programming
- Networks and data communications
- Object oriented analysis and design
- Software engineering
- Human-computer interaction (HCI)

Level 4

- 18 week Individual Project

plus 3 modules from the following:

- Industrial team project or an additional Level 3 module (compulsory)
- Multimedia audio
- Computer vision
- Secure e-commerce
- Technology innovation management
- Computer graphics

plus 4 modules from Research Frontiers options such as:

- Natural language processing
- Games next generation
- Intelligent agents for e-commerce
- Accessibility and computing

Stop Press!

A new 3 year Honours degree focusing on Human-Computer Interaction is currently being developed. Please visit our programme webpage for further details.

architecture

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	English (Higher/GCSE/ILC H at B, HL at 5) and mathematics or physics (SG, Int2, GCSE, Ord, SL)

other qualifications

Please see 'The Environment' on page 140 for details.

selection notes

All applicants under consideration will be invited to attend an interview. Interviews take place on a weekly basis from January to April. The department will generally not make offers to UK based students without interview.

Overseas students are not expected to attend an interview but should prepare a portfolio as a matter of course and submit this in electronic form by email when requested.

Please visit the programme webpage for more information on interviews and portfolios.

direct entry to RIBA Part 2
Applicants seeking entry to Level 4 (RIBA Part 2) with a good degree and exemption from RIBA Part 1 will be required to make a formal application through UCAS by 15th January of the year they wish to enter.

degree programmes (with UCAS Codes)

MArch Architecture*	K100
MArch Architecture Studies	K103

* This is the professionally accredited route.

See **making your application** on page 32.

professional accreditation

Our integrated MArch Architecture degree (K100) is fully recognised by ARB (Architects Registration Board) and the RIBA (Royal Institute of British Architects), and is recognised as a postgraduate qualification.

In the 2011 National Student Survey we were ranked 1st in Scotland and 11th in the UK. 94% of our students said that they found their architecture degree 'intellectually stimulating'.

why study at dundee?

Architecture at Dundee has a strong studio culture and a teaching programme which embeds the design studio at the heart of all teaching.

We have three primary concerns:

- The creation of responsive and sustainable architecture. One where beauty and meaning are expressed through a clear understanding of the means by which it is made and functions, serving the needs of individuals and expressing the cultural aspirations of society.
- The teaching of construction, structures, material grammar and environmental design is regarded as central to, and inseparable from, design teaching.
- The act of imagination which transforms the functional and material elements in architecture such that it may be discussed as communicable art.

We aim to educate resourceful and adaptable architects who are able to respond creatively and responsibly to the demands of a complex and changing profession. We achieve this by providing a supportive learning environment which fosters a spirit of independent enquiry and individual enterprise. This will be enriched by on-going research, all of which will give the students an understanding of the theory and purpose of the best design practice and the self-confidence to participate in it.

At various stages in the 5 year programme students are offered the opportunity to take part in study visits organised as an integrated part of the course work.

Recent study visits have included a Level 2 trip to Holland, a Level 3 study visit to Krakow and a Level 4 study visit to Berlin. Level 2 students may also take part in student exchanges with our partners in France, Germany, Poland and Australia.

We have an established student society ADAS (Association of Dundee Architectural Students) which is organised solely by the students and organises an extensive series of visiting lecturers from throughout the world.

employability

Graduates and students of Dundee have traditionally had an excellent reputation within the profession for being valuable and respected members of top practices in the UK and throughout the world.

For those wishing to qualify as architects the minimum period of study is 5 years in a ARB/RIBA recognised institution and also a minimum of 24 months practical training in practice, most commonly in an architect's practice. Please visit the programme webpage for more information about programme progression.

Dundee has in recent years offered students an option to use the summer vacation period to gain a minimum of 3 months practical training in practice to count towards the first 12 months training for the RIBA professional requirements. At this stage students can also take the opportunity to gain experience in practices not just in the UK but also abroad.

teaching and assessment

The aims and objectives of the MArch programme are pursued through personal and group investigative study, dissertation, specific subject area related design project work, integrated design, individually appointed design thesis, supported by study visits, seminars, tutorials and inter-disciplinary teaching based on a unit system.

Each week one studio day is given over to tutorial groups working on their assigned design projects on a one-to-one or small group basis; in parallel a second tutorial day is programmed as an exploratory workshop which examines studio work from a different perspective.

Workshops can be structured and assessed in a variety of ways but will always come under the umbrellas of either a subject area (technology or humanities) or the architectural design module managed by the year staff.

Students are required to submit project work at stages throughout the year which is reviewed by staff and visiting academics and professionals. Students also submit essays, reports and other course work. We do not set formal written examinations in exam halls.

By Level 5 students have reached a stage where they are encouraged to develop their own research question within a specialist unit. This can result in independent visits by students to a variety of locations around the world. In recent years students have travelled to a variety of locations such as New York, Switzerland, Greek Islands and also the Orkney Islands.

what is the best thing about your course?

At Dundee the studio culture is central to the learning experience on both an academic and social level, creating dialogue between students. The student society 'ADAS' organises regular lectures and social events throughout the year.

Throughout Part 1 the projects prepare you for working in a placement, from presentation skills to building regulations and in particular working as part of a large team. During my Part 1 placement year I worked for Eric Parry architects in London on a residential project at the Athletes Village for the Olympics. This gave me excellent experience working in a large team seeing the project from initial concept through to tender, then returning to the project the following summer to work on site and gain more experience of detail design.

Lewis Benmore graduated from MArch Architecture in 2011

programme content • typical degree programme example

RIBA Part 1

Level 1

5 modules from these subject areas:

- Architectural Design
- Architectural/Sustainability and Context
- Design and the Environment

Level 2

5 modules from these subject areas:

- Architectural Design
- Humanities - Thinking and Making
- Architectural Technology

Level 3

2 modules from these subject areas:

- Architectural Design - including Architectural Technology/ Professional Studies
- Humanities - Dissertation

RIBA Part 2

Level 4

2 modules from these subject areas:

- Integrated Architectural Design
- Humanities - Dissertation

Level 5

- Architectural Thesis

Professional Training (RIBA Part 3)

Two years required before becoming eligible to sit RIBA Part 3. One year must be post Part 2 and one year may be at any time after registering on a RIBA validated architecture programme. We can advise students on a variety of options for integrating professional training with their studies.

art & design (general foundation & specialisms)

minimum requirements

Art & Design (General Foundation) (Level 1 entry):

SQA Higher:	**BBBB**
GCE A-Level:	**BCC**
ILC Higher:	**BBBB**
IB Diploma:	**30** points

Essential subjects: Art and design or related subject (H, A-L, ILC H, HL) and an appropriate literate subject (Higher, AS, ILC, H, HL). All applicants will be invited to attend a portfolio submission event.

Advanced entry (to specialisms in Level 2)

Foundation degree in Art & Design
HND in an art & design subject

SQA Advanced Higher:	**BB+BB** (H) in different subjects
GCE A-Level:	**ABB**
IB Diploma:	**34** points with 6, 6, 5 at HL.

Essential subjects: Art and design or related subject (AH, A-L, HL), an appropriate literate subject (AH, A-L, HL) and one other subject outside art & design subjects (H, A-L, HL). Applicants may be invited to attend an interview and visit to the course.

additional requirements (for Level 1 & Level 2 entry)

All applicants must also submit a comprehensive portfolio of art/design/ creative work.

other qualifications

Please see 'Art & Design' on page 138 for details.

We recognise that there are some creative people who may not have had the opportunity to attain the requirements listed above. Therefore we can accept up to 7% of our total Level 1 intake from applicants who have an exceptional portfolio or exceptional academic grades or appropriate prior experiential learning. These applicants may be invited for interview.

Applicants who do not meet the minimum entry requirements may also wish to consider undertaking an art and design programme at a Further Education college. Successful completion of one of these programmes may enable future entry to Level 2 of our art and design specialisms.

degree programmes (with UCAS Codes)

BA/BDes Art and Design (General Foundation)	WW12

Degree specialisms - Level 2 entry

> BDes Animation	W280
> BA Art, Philosophy, Contemporary Practices	WV15
> BA Fine Art	W100
> BDes Graphic Design	W210
> BDes Illustration	W220
> BDes Interior Environmental Design	W250
> BDes Jewellery & Metal Design	W720
> BDes Textile Design	W231
> BA Time Based Art & Digital Film	W690

See also related degrees in:

BSc Digital Interaction Design (page 82)	WG24
BSc Product Design (page 124)	W240

See **making your application** on page 32.

why study at dundee?

Duncan of Jordanstone College of Art & Design (DJCAD) at the University of Dundee has a world renowned reputation and the one year General Foundation in Art and Design is a fitting starting point for creative and motivated people who wish to develop the fundamental skills to prepare them for entry to the nine subject specialist art and design courses on offer at DJCAD (listed on the left).

The modules in the General Foundation course have been carefully devised to enable you to gain a broad experience, awareness and skill level which will help you to decide on your choice of Honours degree specialism for the subsequent three years. After completion of this one year course, you will submit a portfolio of work to be assessed for progression onto the specialism of your choice.

If you have already completed a recognised art and design foundation course elsewhere or satisfy the criteria for advanced entry to the specialist subjects in Level 2 (see entry requirements to the left) you should apply directly to one of the specialisms. All other applicants should apply for the Art and Design (General Foundation) course.

You will benefit from a challenging and coherent programme of instruction, guidance and exploration, providing you with a positive sense of direction towards a future in art and design.

The studio culture encourages sharing of ideas and understanding, and nurtures a supportive work and social environment. The majority of your time will be spent on studio based activities and learning fundamental practical and critical skills, creating a transition between work that you have carried out at school or on a previous course and potential future study in a specialist art and design subject. The focus of the General Foundation is the development of your ability, skill and critical faculties. The process of acquiring sound basic skills includes consideration of creativity, aesthetics, visual awareness, and analytical and critical faculties. Knowledge and a sense and understanding of the history, theory and practice of art and design are cultivated, allowing you to understand how art and design practice has developed and how it is positioned within today's society, culture and creative economy thus enabling you to place yourself, your work and aspirations in context.

Our students come from a range of countries, age groups and backgrounds. Although the majority already have developed portfolios, we also welcome intelligent, creative, motivated people who are interested in moving into a vocation in art and design.

teaching and assessment

Our staff are practising artists and designers, most of whom also engage in cutting edge research in creative practice. They will offer friendly guidance and welcome requests from students for help and advice. We also have excellent workshop and computing facilities and our highly skilled technical and digital support staff will help you to develop technical skills in a range of areas. Students who wish to work in a multi-disciplinary environment are encouraged to use all the facilities in Duncan of Jordanstone College of Art & Design to further their personal creative development.

The core values and philosophical ethos of the course are encapsulated in the teaching of both the fundamental elements of art and design practice, namely drawing skills (including life drawing), making, and the emerging developments in digital imaging as well as generic skills (writing, research methodologies etc.) to support you in whatever career path you decide to take in the future.

This General Foundation will encourage experimentation, encouraging you to take risks in trying new things. It also aims to cultivate your understanding of the range of art and design disciplines that you may progress to in the future and the associated future career opportunities. These core values will enrich and expand your personal visual language and contribute in a diagnostic context towards helping you make an informed choice of specialist study. Having enjoyed the enriching experience of working within a vibrant community of emerging artists and designers in the General Foundation, progression to Level 2 – the specialist courses – requires demonstration of appropriate knowledge and skill and the potential to successfully pursue independent study.

You will be assessed through the studio course work including supporting work such as digital outputs, blogs, reflective journals and also through demonstrating your understanding of contextual studies. There is continuous formative feedback through the studio tutorials and at the end of each module. A formal assessment occurs at the end of semester 1 and again at the end of semester 2.

Please note: the majority of students will proceed to the specialist programme of their choice. Successful completion of the General Foundation course does not confer the automatic right of entry to Level 2 of a specialist degree programme. Entry to Level 2 is competitive, by submission of a portfolio of work, and is subject to the number of places available. Progress is monitored as an integral part of the teaching process.

what's so good about art & design at dundee?

"Not only did we have very professional equipment and facilities in the department, but we were also taught in a way that I found to be very helpful. We were able to use other departments' facilities and staff expertise. The art history and theory program offered a broad range of possibilities to develop artistic work and gain experience."

Jessica Treffler, graduated in 2004 with BA (Hons) Time Based Art

programme content • Art & Design (General Foundation, Level 1 only)

Level 1

- Fundamental creative skills (drawing, painting, making, demonstrations)
- Technical skills (practical workshops and digital imaging)
- Key generic skills (analytical and critical skills, research skills, confidence and motivation, presentation and communication skills)
- Contextual studies introducing historical and contemporary debates and practice
- Foundation skills in the various art and design specialisms
- Elective choice (including philosophy)
- An optional cultural study visit (major Scottish cities and London) enhances the learning experience

For information on the programme content of the specialist Honours degree programmes at Levels 2 – 4 please see the individual specialisms on the following pages.

We are ranked 1st in Scotland and 8th in the UK for the quality of art & design research and 2nd in Scotland for student satisfaction by The Times Good University Guide 2012.

animation

minimum requirements are given on page 44.

why study at dundee?

Embracing both 3D digital and 2D approaches this degree offers a wide range of opportunities for contemporary animators from narrative storytelling to visual effects and visualisation. Creativity and professional practice are the driving forces behind this dynamic course. It is a fusion of art and technology designed to help students develop a good understanding of the relationship between aesthetic, perceptual and technical factors involved in the development of animation productions.

You will have access to our state-of-the-art facilities include Maya labs, animation studio, rostrum camera, and a green screen visual effects studio.

Students have the opportunity to exploit their individual abilities within the subject, creating a sound working methodology and acquire relevant professional skills to use cutting edge technology adopted by the international animation industry.

Animation is one of three courses that comprise the communication design programme (animation, graphic design and illustration). While following your course in animation, you will also gain a broad educational experience by being provided with a wide range of opportunities for you to engage with generic communication design issues as well as your pathway choice in animation. The goal is to deliver agile and flexible graduate designers who have a broad understanding of communication design coupled with deep knowledge and expertise in their chosen subject pathway.

employability

Animation is one of the most rapidly expanding areas of creative endeavour. In particular the last decade has seen a truly amazing growth in its technical development and applications. Animation is fast-changing and has never been a more relevant and exciting career prospect than now. Employment opportunities for contemporary animators exist in multimedia, web design, interactive games design, digital simulation, virtual environments and visual effects. Many of our graduates are employed in some of the most prestigious animation and visual effects companies in the world. A number of our graduates continue their studies at Dundee on one of our taught postgraduate courses.

teaching and assessment

The programme of study involves projects and workshops designed to help you, through experiential learning, to understand the fundamental skills of animation. Different approaches of teaching and learning are used including regular seminars, practical lectures, studio demonstrations, individual tutorials and group critiques and peer review. The studio practice is supported by contextual studies which underpin the process of intellectual enquiry and encourage critical engagement with the subject.

programme content • typical degree programme example

BDes Honours degree →

Advanced entry BDes Honours degree →

Level 1

- Art and Design (General Foundation) – see pages 44-55

Level 2

- Introduction to fundamental animation skills
- Introduction to 2D and 3D computer animation
- Introduction to production equipment
- Creative research methodology
- Contextual Studies

Level 3

- Personal programme of study
- Research and development
- Professional production practice
- Contextual Studies
- Elective modules such as Visual Effects, Comic Art and Graphic Novels, Printmaking etc
- Optional one semester of exchange study at an international institution

Level 4

- Personal programme of research
- Supporting study elective
- Degree Show Exhibition

Please note that our courses are refreshed each year therefore the above may be subject to minor changes.

art, philosophy, contemporary practices

minimum requirements are given on page 44.

why study at dundee?

This innovative degree provides a unique opportunity to study both fine art and philosophy. Sixty percent of your studies will focus on fine art with the remaining 40 percent on philosophy. You will study in both a highly regarded art school and a well established academic discipline. This interdisciplinary connection brings together excellence in research and teaching within a mainstream university environment. You will be taught by academic staff with national and international reputations as practising artists, theorists, philosophers and writers who contribute significantly to the shaping of contemporary culture and debate.

Our students come from a wide range of backgrounds. The quality of studio and workshop provision is high, with students having access to a digital imaging suite and the University's computing workstations.

Our programme reflects current cultural practices integrating practical and theoretical studies beyond disciplinary boundaries. If you have a strong interest in philosophical issues but also want practical studio experience as an artist then BA (Hons) Art, Philosophy, Contemporary Practices is the course for you.

Art, philosophy, contemporary practices is one of three courses that comprise the art & media programme (art, philosophy, contemporary practices, fine art, time based art & digital film). This programme has an already established reputation as the only interdisciplinary arts curriculum in Scotland. The bringing together of three distinct pathways under the art and media programme offers a broad educational experience and access to a wide range of staff expertise while also allowing you to gain deep knowledge and expertise in your chosen subject pathway of art, philosophy, contemporary practices.

employability

Our graduates are highly sought after professionals well equipped for a great number of professions. As articulate practitioners or theorists trained in creative practice they are resourceful and flexible. Possible careers include: artist, arts administration, management, curation and cultural policy making as well as publishing, writing and journalism, criticism, research, consultancy, and access to many areas of the teaching profession.

Furthermore, this degree provides a firm foundation for postgraduate studies in the visual arts, philosophy or related disciplines.

teaching and assessment

The programme is delivered through active learning in the studio and the sharing of ideas through discussion. The main components of teaching at Levels 1 and 2 are studio projects along with workshops, lectures, seminars and tutorials.

At Levels 3 and 4 you will increasingly engage in self-directed research supported by technical and idea based workshops, lectures, seminars, group and individual tutorials.

At all levels assessment will reflect the interdisciplinary nature of the programme and will typically include a combination of presentation of your studio work, essay and oral presentation. The final examination for Honours students takes the form of a major presentation/exhibition and a dissertation.

what our graduates are doing

Jonathan Richards graduated in 2009. He is a contemporary painter who was featured in the 2010 Catlin Guide which recognises 40 of the most promising new graduate artists in the UK.

programme content • typical degree programme example

BA Honours degree →

Advanced entry BA Honours degree →

Level 1

- Art & Design (General Foundation) - see pages 44-45

Level 2

- Studio Projects
- Interdisciplinary Studies: Concepts, Methods, Perspectives
- Interdisciplinary Studies: Concepts, Seeing Difference
- Analytic Aesthetics
- Aesthetics in Transition, Schopenhauer, Nietzsche and Heidegger

Level 3

- Studio Practice 3

plus two of the following:

- Antigone and Philosophy
- Digital Poetry
- Film and Art
- Foucault
- Questions of Vision in Art
- Spinoza
- The Aesthetics of the Sublime
- Vision, Literature and Art
- Optional one semester of exchange study at an international institution

Level 4

- Studio Practice 4
- Dissertation
- Independent Directed Honours Studies
- Degree Show Exhibition
- Oral Presentation

Please note that our courses are refreshed each year therefore the above may be subject to minor changes.

fine art

Susan Philipsz graduated with BA (Hons) Fine Art in 1993. She was awarded the 2010 Turner Prize.

minimum requirements are given on page 44.

why study at dundee?

Fine art's position within a world class university creates exciting opportunities for cross-disciplinary research and teaching. Our programmes are enriched by the diverse backgrounds and multicultural perspectives of our students. Innovation and creativity are key to our success, preparing our students for a wide variety of careers in creative practice and industry.

Fine art students have access to well equipped workshops for wood, casting and welding and a printmaking workshop with facilities for etching, screenprinting, lithography and digital printing.

While primarily focused on making, fine art study will equip the student with knowledge of the history and theory of art which, with their practical and research work, will enable successful engagement and collaboration within the community and new audiences.

The skills required for entry to this programme will normally be demonstrated in a portfolio which might contain drawings, studies, collages, photographs, sketches, notes and other materials which demonstrate your ability to imagine and to visualise.

Fine art is one of three courses that comprise the art & media programme (art, philosophy, contemporary practices, fine art, time based art & digital film). This programme has an already established reputation as the only interdisciplinary arts curriculum in Scotland. The bringing together of three distinct pathways under the art and media programme offers a broad educational experience and access to a wide range of staff expertise while also allowing you to gain deep knowledge and expertise in your chosen subject pathway of fine art.

employability

Fine art graduates have developed careers in exhibition curation and gallery management, working in and establishing artists' organisations, in art administration and project management. Our graduates enter industries that require visual skills and knowledge, including the media and the film and entertainment industries.

The course has a strong record of producing graduates who have gone on to establish successful careers as artists, exhibiting and making work nationally and internationally. Many have also pursued careers in teaching in community, school, further and higher education while continuing their own practice. Significant numbers of fine art graduates progress to study taught postgraduate programmes in the UK and abroad.

teaching and assessment

Our teaching staff also work professionally as artists and fine art researchers, nationally and internationally, instigating projects, exhibitions and events from the Arctic to the Antarctic.

The Honours degree programme is based on a core of studio skills, practical techniques, methods and materials, underpinned by critical understanding of the work. Drawing, painting, sculpture, print, digital and computer-based imaging, photography, video, performance, installation and artists' books are explored by fine art students. Interdisciplinary studies are encouraged for students whose ideas and interests cross the boundaries between media.

Throughout the programme, studio work is strongly supported and contextualised through the study of relevant history and theory.

The majority of teaching takes place in the studios and is a combination of one-to-one tutorials, group critiques between students and studio staff, and joint critiques between students, studio staff and history and theory staff. Further enrichment comes from a programme of visiting lecturers. Students in recent years have greatly benefited from close access to exhibitions, lectures and workshops at Dundee Contemporary Arts.

programme content • typical degree programme example

BA Honours degree →

Advanced entry BA Honours degree →

Level 1

- Art and Design (General Foundation) – see pages 44-45

Level 2

- Directed Studies
- Foundation of Contemporary Practice
- Supporting Practice 1
- An Integrated Practice
- Supporting Practice 2

Level 3

- Self-Directed Practice: Experimentation and Investigation
- Supporting Practice: Professional, Transferable and Technical
- Elective modules such as Materiality & Meaning, Contemporary Portrait, Printmaking etc
- Optional one semester of exchange study at an international institution

Level 4

- Honours degree studies
- Professional Practice, Presentation and Exhibition
- Dissertation
- Degree Show exhibition

Please note that our courses are refreshed each year therefore the above may be subject to minor changes.

graphic design

minimum requirements are given on page 44.

why study at dundee?

Graphic design is about the visual communication of ideas. At Dundee we will challenge you with a range of design briefs, set either by tutors or by external professionals, which will enhance and inform your creative outcomes. Your learning experience will be supported by lectures, tutorials, workshops and visits to design agencies.

You will have the opportunity to participate in an established placement scheme with design agencies across the UK, and you will also present your work at an end-of-year exhibition.

Final year students gain valuable experience and exposure within the graphic design world by taking part in 'New Blood' - a showcase of the best graduates in graphic design, visual communication, advertising and other commercial creative arts.

We will help you to develop your drawing and computer-aided design skills. Throughout the course you will use research, analysis, evaluation and self-criticism, which will assist you to arrive at the best possible solutions to design challenges. You are encouraged to maintain a keen interest in current trends and developments. By the end of the course you will have acquired the skills that you need to support your success within the design industry.

Graphic design is one of three courses that comprise the communication design programme (animation, graphic design and illustration). While following your course in graphic design, you will also gain a broad educational experience by being provided with a wide range of opportunities for you to engage with generic communication design issues as well as your pathway choice in graphic design. The goal is to deliver agile and flexible graduate designers who have a broad understanding of communication design coupled with deep knowledge and expertise in their chosen subject pathway.

employability

Graduates from graphic design have gone on to have successful careers in branding, digital based media, advertising, packaging design, television & motion graphics and freelance design.

Some graduates choose to continue their studies at postgraduate level on one of our postgraduate Masters programmes.

teaching and assessment

In each year of the course, staff engage with students in small tutorial groups and on a one-to-one basis, to encourage an 'individual' response to set briefs. The studio-based programme promotes research, experimentation, analysis, evaluation, and self-criticism - all of which assist in arriving at the best possible solutions to design challenges.

The studio practice is supported by contextual studies which underpin the process of intellectual enquiry and encourage critical engagement with the subject.

what our graduates are doing

Malcolm Buick graduated in 1995. He was Creative Director of world renowned design agency Wolff Olins in New York City and is now a freelance designer. He says, "The course provided us with opportunities to compete on the world stage, have placements at renowned design studios, and learn from a good crew of lecturers who understood the craft in design, and the importance of that as a foundation for success."

programme content • typical degree programme example

BDes Honours degree →

Advanced entry BDes Honours degree →

Level 1

- Art and Design (General Foundation) – see pages 44-45

Level 2

- Tutor-set briefs
- Typography
- Design for print and screen
- Computer-aided design
- Drawing
- Contextual studies

Level 3

- Tutor-set briefs
- Typography
- Design for print and screen
- Live project work
- National competitions
- Contextual studies
- Work placement
- Elective modules such as Visual Effects, Comic Art & Graphic Novels, Printmaking etc
- Optional one semester of exhange study at an international institution

Level 4

- Self-directed programme of study
- Professionally-endorsed national competitions
- Supporting study elective
- Exhibitions in Dundee and London

Please note that our courses are refreshed each year therefore the above may be subject to minor changes.

illustration

minimum requirements are given on page 44.

why study at dundee?

With an eye to commercial avenues this course adopts a broad definition of illustration and provides a dynamic and experimental environment for the development of visual ideas.

Illustration aims to address the demand for visual communicators by focusing the curriculum on creativity, authorship and interpretation. We offer a wide range of opportunities spanning book arts, applied design, photography, drawing, printmaking, moving and interactive media. You will also have the opportunity to participate in a foreign study trip.

We help you to embrace traditional and experimental processes underpinned by high-end digital technologies and well resourced printmaking facilities. Illustrators benefit from a unique experience working in a multi-disciplinary environment that offers opportunities to collaborate with other courses.

Illustration is one of three courses that comprise the communication design programme (animation, graphic design and illustration). While following your course in illustration, you will also gain a broad educational experience by being provided with a wide range of opportunities for you to engage with generic communication design issues as well as your pathway choice in illustration. The goal is to deliver agile and flexible graduate designers who have a broad understanding of communication design coupled with deep knowledge and expertise in their chosen subject pathway.

employability

The demand for illustrators has increased as related commercial fields have expanded. Our graduates have gone on to have successful careers in the following fields:

- advertising
- editorial
- animation
- film & television
- online media
- curation
- publishing
- art/design
- research
- teaching

teaching and assessment

Students in illustration are taught through workshops, lectures, seminars, taught projects, group tutorials, personal tutorials and self-assessment appraisals. Students are encouraged to develop their own directions within assignments and to engage in debate about their work.

The studio practice is supported by contextual studies which underpin the process of intellectual enquiry and encourage critical engagement with the subject.

what our graduates are doing

Marion Deuchars graduated in 1987. She is a freelance illustrator who has illustrated for a range of high profile clients including Harrods, Esquire Magazine, Penguin Books, The Guardian and Jamie Oliver.

Eleanor Meredith graduated in 2006. She is an animator and illustrator who also teaches. Her clients include BBC Learning, The Scottish Executive, The Skinny Magazine, Hotel Bloom and Kettles Yard.

Scott Balmer graduated in 2006. He is an illustrator who has produced work for publications and clients which include The New York Times, The Guardian, Umbro, The Science Council, BusinessWeek, Inc. Magazine and Orange.

programme content • typical degree programme example

BDes Honours degree →

Advanced entry BDes Honours degree →

Level 1

> Art and Design (General Foundation) – see pages 44-45

Level 2

> Assignment based projects
> Introduction to technical process
> Introduction to computer aided design
> Creative research methodology
> Contextual Studies

Level 3

> Personal programme of study
> Strategic experimentation
> Research and development of ideas
> Cultural experience
> Contextual Studies
> Elective modules such as Visual Effects, Comic Art & Graphic Novels, Printmaking etc
> Optional one semester of exchange study at an international institution

Level 4

> Personal programme of research
> Supporting study elective
> Degree Show exhibition

Please note that our courses are refreshed each year therefore the above may be subject to minor changes.

interior environmental design

minimum requirements are given on page 44.

why study at dundee?

Interior environmental design (IED) offers opportunities to explore a wide range of spatial contexts, from temporary pop-ups to performative spaces, set, retail brand experience, and living and working scenarios to more experimental interior contexts.

As an activity, IED operates at the exciting intersection of architecture, design and art. It allows spatial investigation into architecture, furniture, and installations to exhibitions and is a dynamic programme that respects the tradition of design history and challenges conventions in contemporary culture. You will be encouraged to develop individual and team responses to interiors, environments, materials and objects and to develop exciting creative design processes that combine elements of prototyping and material awareness with a capacity to visualise human spatial experiences at various scales, locations and social contexts.

Our students work in a dynamic open studio environment, supported by a teaching team which has considerable expertise in architecture, interiors, fine art, sustainability, workshops and computer-aided design.

We are a member of the Group for International Design Education (GIDE) where students work on shared themes with design partners in Italy, Germany, Slovenia, Belgium, England, Netherlands and Switzerland.

employability

Graduates have gone on to have successful careers in the following fields: interior/architectural design practice; lighting; exhibition; theatre set design; tv and film set design; animation; furniture design; installations; sound-scapes.

teaching and assessment

You will occupy a personal work space and have access to a unique and diverse 'in-house' teaching team with expertise in architecture, interiors, fine art, CAD and workshop. Learning occurs within a dynamic open studio where social interaction, peer and group learning and inter-year participation contributes to a stimulating environment.

what our graduates are doing

Chris Twaddle graduated in 1993. He is director of Kennedy Twaddle Architectural Design in London. He has worked in Rome, Glasgow and London.

Duncan Kidd recently completed work on the YAS Island hotel project in Adu Dhabi working for prestigious New York architects Asymptote. As a senior designer for JMArchitects, Duncan will be part of the associate architects working with internationally acclaimed New York practice Steven Holl on the new build for the Glasgow School of Art.

programme content • typical degree programme example

BDes Honours degree →

Advanced entry BDes Honours degree →

Level 1

- Art and Design (General Foundation) – see pages 44-45

Level 2

- Material Matters
- The 21st Century Designer or Co-Design in Action
- Border Crossings
- Change by Design or Playful Practices

Level 3

- Partnerships, Networks and Connections 1 and 2
- Overseas Study Trip
- Alternative Futures elective study option (Research and creative practice, Design and the market, Design and international contexts: Made in China)
- Elective modules such as Advertising and Branding, Critical Making, Design for a Living Planet
- Optional one semester of exchange study at an international institution

Level 4

- Alternative Futures elective study option
- Design in Action Honours Project

Please note that our courses are refreshed each year therefore the above may be subject to minor changes.

jewellery & metal design

minimum requirements are given on page 44.

why study at dundee?

Jewellery designers are the creators of a universal symbolic language that expresses identity, difference, distinctiveness and shared values. As such it fuses together art, science, fashion, politics, culture and technology. Studying jewellery & metal design at Dundee begins with material based exploration - learning the characteristics and qualities of a range of materials e.g. wood, metal, plastics etc. Traditional hand techniques and new technologies such as electroforming, laser cutting, and digital processes including rapid prototyping are thoughtfully integrated. Critical thinking and debate is encouraged, creating a dynamic and vibrant environment in which to generate new ideas and material processes. You are encouraged to think about your ideas and ways of working in order to push the boundaries of the discipline. Consequently jewellery and metal design is often not worn on the body, and does not have to be made of metal!

In addition to creating work for sale within the contemporary craft gallery our graduates are also creating new markets and arenas for the knowledge and skills they have developed, for example in healthcare (medical alert jewellery) and forensics (disaster victim identification - a jewellery classification system). Working in collaboration with different departments and courses is one of the key benefits of being part of a vibrant diverse research university.

employability

Our graduates have gone on to have successful careers in a number of different fields, including:

- self-employed artist/designer
- designer to fine or fashion jewellery manufacturers
- designer of small products
- management within the jewellery trade
- designer of effects in theatre, cinema or television
- specialist posts within museums and galleries
- lecturing and teaching in craft, design & technology.

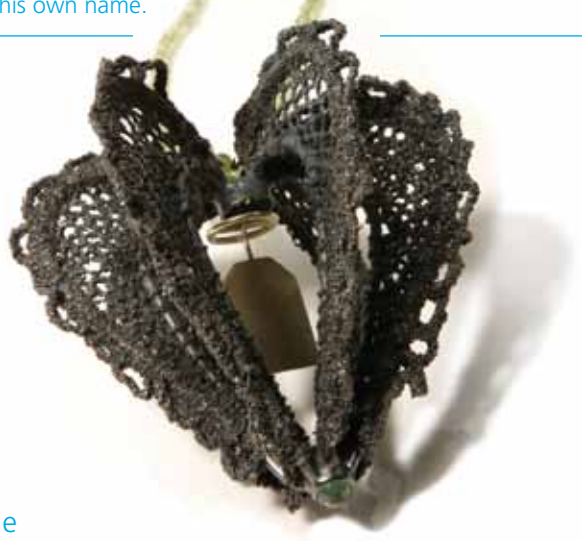
teaching and assessment

Learning occurs within a dynamic open studio environment where social interaction, peer and group learning and inter-year participation contributes to a stimulating environment. You will learn through a combination of workshops, lectures and self-initiated projects.

what our graduates are doing

Lynne MacLachlan graduated in 2008. She completed her MA at the Royal College of Art and is now a freelance jeweller. She has exhibited her work in Lab Craft, a Crafts Council touring exhibition which features the work of 26 of the most experimental names in craft and design.

Andy Sweet graduated in 2000. After hand making a small collection of experimental eyewear in titanium for his Degree Show exhibition, Andy has gone on to work for a wide range of companies around the world, designing eyewear for H&M, Cheap Monday, Bruuns Bazaar, Specsavers and Jacob Jensen amongst others. In 2009 he produced his first eyewear under his own name.



programme content • typical degree programme example

BDes Honours degree →

Advanced entry BDes Honours degree →

Level 1

> Art and Design (General Foundation) – see pages 44-45

Level 2

> Material Matters
> The 21st Century Designer *or* Co-Design in Action
> Border Crossings
> Change by Design *or* Playful Practices

Level 3

> Partnerships, Networks and Connections 1 and 2
> Overseas Study Trip
> Alternative Futures elective study option (Research and creative practice, Design and the market, Design and international contexts: Made in China)
> Elective modules such as Advertising and Branding, Critical Making, Design for a Living Planet
> Optional one semester of exchange study at an international institution

Level 4

> Degree Project and Mission
> Design History, Theory and Practice

Please note that our courses are refreshed each year therefore the above may be subject to minor changes.

textile design

minimum requirements are given on page 44.

why study at dundee?

Textile design at Dundee offers you the opportunity to investigate textile design in a broad sense by encouraging you to consider both the practical and relevant way textiles can be applied and used within society.

You will learn and develop visual and practical skills through making and exploring a diverse range of materials. Exposure to making processes which use cutting edge technologies will help you build indepth technical, sensory and aesthetic knowledge of colour, structure, pattern and texture.

The course aims to develop students who can contextualise practical knowledge and the decorative philosophy that is inherent within textile design, through a range of applications. This includes developing innovative textile design ideas and prototypes for industry as well as exploring the ways that practical knowledge can help solve problems such as sustainability, the ageing population, crime etc.

Textiles are synonymous with domesticity and the body and you will be actively encouraged to challenge perceived definitions within these traditional parameters and beyond.

employability

Our graduates have gone on to have successful careers in the following fields:

- textiles
- fashion
- trend forecasting
- buying
- theatre costume design
- textile conservation
- art therapy
- arts administration
- design education.

Some graduates continue their studies at postgraduate level on one of our postgraduate Masters programmes.

teaching and assessment

Learning occurs within a dynamic open studio where social interaction, peer and group learning and inter-year participation contributes to a stimulating environment. You will learn through a combination of lectures, tutorials, research and self-initiated projects.

what our graduates are doing

Linda Florence graduated in 2003 and is a London-based designer who produces bespoke hand printed wallpaper and installation artwork for public, commercial and domestic interiors. Her clients include the Victoria and Albert Museum, The Jerwood Space, Swarovski, The National Trust, Ted Baker and Penguin.

Hayley Scanlan graduated in 2009. She is a printed textile and fashion designer based in Dundee. During her degree show, Hayley was commissioned to design a studded jacket for super model Erin O'Conner. After graduating, Hayley was asked to design musician Marina Diamandis' tour costumes.

programme content • typical degree programme example

BDes Honours degree →

Advanced entry BDes Honours degree →

Level 1

> Art and Design (General Foundation) – see pages 44-45

Level 2

> Material Matters
> The 21st Century Designer or Co-Design in Action
> Border Crossings
> Change by Design or Playful Practices

Level 3

> Partnerships, Networks and Connections 1 and 2
> Overseas Study Trip
> Alternative Futures elective study option (Research and creative practice, Design and the market, Design and international contexts: Made in China)
> Elective modules such as Advertising and Branding, Critical Making, Design for a Living Planet
> Optional one semester of exchange study at an international institution

Level 4

> Alternative Futures elective study option
> Design in Action Honours Project

Please note that our courses are refreshed each year therefore the above may be subject to minor changes.

time based art & digital film

minimum requirements are given on page 44.

why study at dundee?

Time based art & digital film embraces contemporary media art forms including film production, photography, sound design, sonic art, performance web art and interactive media.

At Dundee the course, which formalises the study and practice of digital film alongside time based art, offers you a near unique experience, including giving you access to the only green screen visual effects studios in Scotland. We also offer you state-of-the-art, high definition technologies for live action and visual effects.

Our team of staff, including accomplished artists, filmmakers, designers and photographers, will encourage you to be innovative, visually creative, experimental and to use professional production methods. You will explore a growing range of genres and applications by completing personal and group projects.

At the end of the course you will be able to produce a significant body of works in one or more of the following: digital film, installation, sound, performance, interactive art and imaging.

You will also be able to manage a series of self motivated projects which reflect your conceptual goals and personal philosophy.

Time based art & digital film is one of three courses that comprise the art & media programme (art, philosophy, contemporary practices, fine art, time based art & digital film). This programme has an already established reputation as the only interdisciplinary arts curriculum in Scotland. The bringing together of three distinct pathways under the art and media programme offers a broad educational experience and access to a wide range of staff expertise, while also allowing you to gain deep knowledge and expertise in your chosen subject pathway of time based art & digital film.

employability

Our graduates have gone on to have successful careers as:

- artists
- film directors
- web designers
- editors
- visual effects artists.

Some graduates continue their studies at postgraduate level on one of our postgraduate Masters programmes.

teaching and assessment

Teaching staff include accomplished artists, filmmakers, designers and photographers who are dedicated to providing a creative learning environment. Following a structured introduction to key media art concepts and technologies, students develop their visual awareness through studio practice.

what our graduates are doing

Peter Keith graduated in 2002. He is a film producer and camera assistant and has worked on projects including Taggart, Rebus, BBC drama The Deep and even a Staples commercial.

programme content • typical degree programme example

BA Honours degree →

Advanced entry BA Honours degree →

Level 1

> Art and Design (General Foundation) – see pages 44-45

Level 2

> Taught project-based programme: introduction to photography, moving image, sound and interactivity
> Contemporary media theory
> Self-motivated ideas and projects
> Critical debate and exhibition
> Tutorial and group critique

Level 3

> Elective masterclass series
> Self-motivated practice
> Tutorial and group critique
> Professional practice and group exhibition
> Theoretical Studies
> Elective modules such as Materiality & Meaning, Contemporary Portrait, Printmaking etc
> Optional one semester of exchange study at an international institution

Level 4

> Self motivated personal programme of study
> Tutorial and group critique
> Honours dissertation
> Degree Show exhibition

Please note that our courses are refreshed each year therefore the above may be subject to minor changes.

djcad
duncan of jordanstone college of art & design

is the creative hub at the heart of the University of Dundee.

biological/biomedical sciences overview

Your application for entry will be judged based on the highest level qualifications you have or are taking, e.g. students offering A-Levels or Scottish Baccalaureate will be made an offer based on entry to the 3 year Honours degree as this offers the best academic progression.

minimum requirements

4 year Honours degree (entry at SCQF 7)

SQA Higher:	**ABBB** (AABB for Forensic Anthropology)
ILC Higher:	**ABBB** (AABB for Forensic Anthropology)
IB Diploma:	**30** points with 5, 5, 5 at HL (32 points with 6, 5, 5 at HL for Forensic Anthropology)
Essential subjects:	Biology or chemistry (Higher, ILC H, HL) plus mathematics and chemistry (SG at 3, Int2 at C, ILC Ord at C, IB SL at 4)

3 year Honours degree (entry at SCQF 8)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Biology and chemistry (AH, A-L, HL) plus mathematics (SG at 3, Int2 at C, GCSE at C, IB SL at 4).

other qualifications

Please see 'Biological/Biomedical Sciences' on page 138 for details.

degree programmes (with UCAS Codes)

BSc Anatomical Sciences	B110
BSc Anatomical and Physiological Sciences	B120
BSc Biochemistry	C700
BSc Biological Chemistry and Drug Discovery	F151
BSc Biological Sciences	C100
BSc Biomedical Sciences	B900
BSc Forensic Anthropology	FL46
BSc Microbiology	C500
BSc Molecular Biology	C720
BSc Molecular Genetics	C431
BSc Neuroscience	B140
BSc Pharmacology	B210
BSc Physiological Sciences	B100
BSc Sports Biomedicine	CB69
degree with a year in industry: BSc Biological Chemistry and Drug Discovery	F154

See **making your application** on page 32.

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 85th in the World's Top Universities for life sciences by the QS World University Rankings 2011.

Our excellent reputation also extends to the quality of our teaching. In the 2010 National Student Survey we were ranked No. 1 in the UK for student satisfaction in anatomy, physiology and pharmacology, with 100% of our students saying they were satisfied with the quality of their course. In biochemistry and biological sciences we were ranked No. 1 in Scotland.

teaching and assessment

All life sciences degree programmes share common core modules in the early years that provide a general introduction to the life sciences through an integrated programme of lectures, tutorials, practical work and field excursions.

All our Honours degrees are also available as 3 year options for applicants who already have appropriate qualifications at Scottish Credit and Qualifications Framework (SCQF) level 7 - the equivalent of the A2 year of A-Levels or the Scottish Baccalaureate. To benefit from the best academic progression, applicants with these qualifications will be made offers for the 3 year Honours degree and will start the programme at SCQF 8 (Level 2).

Once you have been accepted onto the course, your current knowledge base and skill set will be assessed, so that we can recommend appropriate modules for the first semester.

4 year degree: Levels 1 and 2: You will take courses covering the breadth of the biological and chemical sciences, as a core foundation for future studies. Our teaching emphasises practical skills, including labs, fieldwork and problem solving, set in the context of a core knowledge which covers the biological and chemical sciences from molecules to communities, via microbiology, cell biology, comparative physiology, biochemistry, genetics, population and community biology, all of which are a means to teach principles which apply across the life sciences. In addition, you will be developing your problem solving abilities, and many transferable skills: researching scientific publications, making presentations and developing your analytical skills.

Both levels include the option for study of modules outside the College of Life Sciences, which we encourage.

For both three year and four year routes, our aim is to train you as a scientist by the end of SCQF 8 (Level 2), with an emphasis on core knowledge, practical experience and problem-solving skills to prepare you for the research-led specialist teaching in Levels 3 and above.

Level 3 (equivalent to SCQF 9) is based around two themes, the Biological Sciences and the Biomedical Sciences.

The **Biological Sciences** theme supports your development as a broader life scientist, and allows you to focus on current areas of research excellence in the College – many of these use the same principles and technologies to study different problems and, as the year progresses, you will be choosing which areas interest you more, and therefore which of several degree streams is best for you.

These include:

- biochemistry
- molecular biology
- molecular genetics
- microbiology
- biological chemistry
- drug discovery.

The **Biomedical Sciences** theme prepares you for degrees in subjects in which subject-specific knowledge has a stronger role, while still being within the research excellence of the University, and which are focused more on the human condition:

- anatomical sciences
- forensic anthropology
- neuroscience
- pharmacology
- physiological sciences
- sport and exercise physiology.

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

Between Levels 3 and 4, you have the opportunity to take a year out of Dundee, either studying abroad, or on a full-time work placement. Both of these can give you a 'real world' perspective on your studies, while further developing your CV.

Level 4 (equivalent to SCQF 10) continues the specialisation of Level 3, focusing strongly on your degree choice, and with a significant laboratory and skills element, through the Honours project and seminars and presentations. Because the Honours year is that much more challenging, entry to Level 4 from Level 3 requires a minimum grade average.

At the end of Level 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. Specialisation in two subjects will be recognised in your degree title, for example BSc Biomedical Sciences (Pharmacology and Physiological Sciences). The title of your degree will reflect the specialist subject(s) you have studied and the project undertaken.

Integrated Masters (Level 5: equivalent to SCQF 11)
We are currently developing the **Level 5** curriculum, which will provide an opportunity for extensive development of your research and analytical skills in the subject area you feel most passionate about. This level, the Integrated Masters, may consist of an extensive research project, coupled with in-depth analytical seminars and research training, which will prepare you for the world of biotechnology and pharmaceutical research, both in and out of the academic world; or it may focus on the specialist knowledge in e.g. anatomical or forensic sciences, that will prepare you to be a practitioner on graduation.

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.

Full details about the Integrated Masters programmes (MSci) on offer (and their UCAS codes) will be available from our programme webpage during 2012.

transferable skills

Throughout your scientific studies you will be developing transferable skills. At Levels 1 to 3 this will either be embedded within the core curriculum or as part of the pastoral and academic tutorial system. 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.

programme content

All life sciences degree programmes share common core modules in Levels 1 and 2, and a table showing typical programme content is given on the next page.

Further information about the programme content in Levels 3 and 4 for each of the subject areas is given on the relevant page:

broad-based programmes

specialised programmes

programme content • typical degree programme example

BSc Honours degree (4 years) →
MSci degree (5 years) →
BSc Honours degree (3 years) →
MSci degree (4 years) →

Entry with*:
SQA Higher
ILC Higher
IB Diploma

Entry with*:
GCE A-Level
Scottish Baccalaureate
SQA Advanced Higher
IB Diploma

Level 1 (SCQF7)

- Core theory modules covering biology, chemistry and molecular biology
- Core practical skills and competencies modules
- Choose either a science and society module or a subject from another School e.g. a language in preparation for study abroad options, computing, psychology or philosophy

Your knowledge and understanding of the physical sciences and mathematics will be assessed at the beginning of semester 1 and, if appropriate, you will take a further module in these subjects.

Level 2 (SCQF8)

Semester 1

- Core theory modules building on the basics of knowledge from Level 1 or from previous qualifications such as A-Levels or Scottish Baccalaureate
- Core practical modules designed to enhance your practical competencies and understanding of experimental design and procedures
- Choose either a healthy living module or a subject from another College e.g. a language, computing or psychology, or take advantage of the skills assessment process to fill in gaps in your skills and knowledge

Semester 2

Biological and Biomedical modules, beginning the process of progressive subject specialisation in preparation for the choices you will make in Level 3.

Level 3 (SCQF9)

Choose to specialise in the subjects that excite you in

- Biological Sciences

or

- Biomedical Sciences

Level 4 (SCQF10)

- Specialist Life Sciences Honours units at the level of current research
- Research Project
- 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.
- 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.

Level 5 (SCQF11)

- Extended research project
- Research seminars in your chosen area
- Research skills and planning

Please see the following pages for details of Level 3 and 4 programme content for each of the Honours degree programmes.

* Please see p138 for details of entry with Other Qualifications such as HNC/HND, BTEC Extended Diploma, Advanced Diploma etc.

Life Sciences at Dundee was ranked 85th in the World's Top Universities for Life Sciences by the QS World University Rankings 2011.

Dundee is ranked No 1 in Scotland for Anatomy & Physiology and Biological Sciences by the Times Good University Guide 2012.

We were also ranked No 1 in Scotland and 4th in the UK for Pharmacology by the Guardian University Guide 2012.

biological sciences

minimum requirements and **degrees available** are given on page 56.

why study biological sciences?

The words 'biological sciences' mean simply the study of life, using all the 'sciences' to understand it. This definition encompasses all aspects of living systems from the ecosystem and whole organism level, down to the microscopic world of the cell and its life support mechanisms.

The huge breadth of biology offers a corresponding wealth of opportunities for students who choose to study it to follow many paths through to a final degree. Biological sciences is certainly the growth industry of the 21st century, with increasing capacity for humans to intervene in, control and perhaps repair defective biological systems. Genetic manipulation of plants and animals, in particular, offers enormous possibilities for improving our lives but, at the same time, there are inherent dangers present in the unthinking application of these techniques. The next generation of professional biologists will have to play an important role, not only in the continued development of such methods, but also in deciding how they can be responsibly and safely applied.

Our relationship with the rest of the natural world is one which has been established over many hundreds of millions of years, and the early modules of the biological sciences programme have a strong evolutionary theme. They emphasise the fact that it is impossible to understand any aspect of biology unless you have a clear understanding of its most important general theory – evolution by natural selection.

Throughout the programme there is an emphasis on laboratory teaching, and students are encouraged to see the blending of field and laboratory based research as essential to the training of a properly rounded biological scientist.

programme progression

The biological sciences degree is a broadly-based programme which allows you to combine a broader range of subjects than a single Honours degree.

If you choose to leave at the end of Level 3 with a non-Honours degree, you will graduate with a BSc Ordinary degree in Biological Sciences that reflects the breadth of subjects you studied at Level 3, as well as the core knowledge and skills gained throughout your degree programme.

If you are aiming for an Honours degree it is likely that this will be in a single named subject e.g. BSc (Hons) Biochemistry. See the relevant subject pages mentioned in the programme content table for details of these degree programmes.

However, there are also options to study a combination of two main subjects at Levels 3 and 4, e.g. biochemistry and pharmacology, and graduate with a BSc Honours degree that reflects your subject choice e.g. BSc (Hons) Biological Sciences (Biochemistry and Pharmacology).

employability

Statistics for recent years show us that our graduates find employment in a wide variety of destinations. Perhaps most importantly, our graduates consistently figure close to the top of national league tables of graduate employment in life sciences. Examples of recent employment destinations for Dundee life sciences graduates include government research institutes, teaching and research in universities, teaching in primary and secondary schools, the pharmaceutical and food industries, and conservation bodies.

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Levels 3 and 4

At Levels 3 and 4 you will study a combination of modules appropriate to your chosen degree subject within the biological sciences theme:

- biochemistry (page 62)
- molecular biology (page 62)
- molecular genetics (page 62)
- biological chemistry and drug discovery (page 63)
- microbiology (page 65)

what our graduates say

Sian Foch Gatrell graduated in 2009. She says, "Research-informed teaching is vital to the quality of learning, and future career opportunities for undergraduate students. It benefits students by stimulating and exciting them about continuing positive and influential research."

biomedical sciences

minimum requirements and **degrees available** are given on page 56.

why study biomedical sciences?

Biomedical sciences are life sciences subjects related to medicine and the human condition. The term encompasses a broad range of closely inter-related life sciences disciplines, concerned with the structure and function of the human body in health and disease. They include subjects at the fore-front of life sciences research where issues and new developments frequently grab the headlines and can often have an immediate impact on our lives.

Biomedical scientists will play increasingly important roles in the 21st century as the results of their research, particularly at the molecular and cellular levels, lead to new and improved ways to diagnose and treat human diseases and contribute to improvements in human health and well-being in general.

At Dundee the biomedical sciences are concerned with the structure and normal function of the human body; the effects of disease and ways to prevent and treat disease; the study of anatomy in relation to health, disease and human identification; the study of physiology from the molecular level to that of the whole organism, in relation to health, sport and exercise; understanding how the brain and nervous system function in health and disease; and understanding how drugs work.

Throughout the programme there is an emphasis on laboratory teaching, and students are encouraged to see the blending of field and laboratory based research as essential to the training of a properly rounded biomedical scientist.

programme progression

The Biomedical Sciences degree is a broadly-based programme which allows you to combine a broader range of subjects than a single Honours degree.

If you choose to leave at the end of Level 3 with a non-Honours degree, you will graduate with a BSc Ordinary degree in Biomedical Sciences that reflects the breadth of subjects you studied at Level 3, as well as the core knowledge and skills gained throughout your degree programme.

If you are aiming for an Honours degree it is likely that this will be in a single named subject e.g. BSc (Hons) Pharmacology. See the relevant subject pages mentioned in the programme content table for details of these degree programmes.

However, there are also options to study a combination of two main subjects at Levels 3 and 4, e.g. physiology and pharmacology, and graduate with a BSc Honours degree that reflects your subject choice e.g. BSc (Hons) Biomedical Sciences (Physiology and Pharmacology).

employability

Statistics for recent years show that our graduates find employment or postgraduate training opportunities in a wide variety of destinations, particularly related to biomedicine and healthcare, and including: research in universities, research institutes and the pharmaceutical industry; teaching in schools, colleges and universities; or graduate entry to a degree in medicine or dentistry. Biomedical sciences graduates will also be valued for their scientific training and problem-solving skills by many potential employers in fields that are not directly related to the specific degree subject.

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Levels 3 and 4

At Levels 3 and 4 you will study a combination of modules appropriate to your chosen degree subject within the biomedical sciences theme.

Group A

- anatomical sciences (page 61)
- forensic anthropology (page 64)

If you are reading for a single Honours degree in either Anatomical Sciences or Forensic Anthropology, you will study within a common curriculum at Level 3, which will include in-depth study of human anatomy.

If you are reading for a degree in Anatomical and Physiological Sciences you will take a combination of human anatomy and physiology modules.

Group B

- neuroscience (page 66)
- pharmacology (page 67)
- physiological sciences (page 68)
- sports biomedicine (page 69)

If you are reading for a single Honours degree in one of these subjects you will take modules in your main subject combined with modules in other subjects in this group, or combined with Level 3 modules in an appropriate biological sciences subject.

anatomical sciences

minimum requirements and **degrees available** are given on page 56.

why study anatomical sciences?

Anatomy is the relationship between structure and function in the human body and ranges from gross anatomy to the cellular and molecular levels. A major feature of our degree programmes is the emphasis on hands-on practical human anatomy. We are continuously striving to improve our teaching and have been active in developing teaching software to help deliver both lecture and practical material.

employability

As a graduate in anatomical sciences you will have an excellent grounding for a career in, or further training for, biomedicine and related fields including clinical laboratory medicine and forensic science. Many of you will contribute to a better understanding of the basis of human disease, taking higher degrees and then going on to careers in biomedical research. You will also be welcomed into applied research and development in the biotechnology industries. Some of you will go on to teach in schools and universities. We also have a good record of postgraduate entry to medicine, dentistry and physiotherapy. A broad spectrum of employment is available to graduates in any discipline and your training in communication and transferable skills will be recognised and valued by a wide range of employers.

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Level 3

At Level 3 you will study the following aspects of anatomy:

> The specialised structure and function of different cells, tissues and organs of the human body.

> The molecular switches that control this diversity as an embryo develops from a single cell.

Practical human anatomy is a substantial component of the Level 3 programme.

You can combine the study of human anatomy with physiological sciences in an Anatomical & Physiological Sciences degree.

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

Level 4

Your studies at Level 4 will be at the level of current research in your chosen subject area.

> Advanced study of topics in anatomical sciences that currently include:

- cell and developmental biology
- genetics
- cancer research
- functional and applied anatomy
- cytoskeletal function
- cellular signalling
- human reproduction
- the cell division cycle
- protein targeting and secretion
- molecular oncology
- biomedical imaging
- functional anatomy of the musculoskeletal system
- neuroanatomy

> Studying anatomy at Dundee was fascinating, challenging and thoroughly enjoyable.
>
> *Adam Young, graduated in 2008 with BSc (Hons) Anatomical Sciences*

biochemistry/molecular biology/ molecular genetics

minimum requirements and **degrees available** are given on page 56.

why study biochemistry, molecular biology or molecular genetics?

Biochemistry involves the study of complex processes in cells and organisms at the molecular level. Molecular genetics is concerned with the structure and function of the genetic material, and molecular biology with the functions of the cell's macromolecules. Depending upon your choice of project and taught topics at Level 4 you can graduate with a degree in Biochemistry, Molecular Biology or Molecular Genetics.

The University of Dundee is recognised internationally as one of the leading centres for biochemical research, including areas such as cell signalling, cell and developmental biology, cell division, diabetes and cancer research. Our teaching is research-led, meaning that the degree programmes benefit from association with research of international standard and its commercial and biomedical applications, and from the active participation of many leading scientists in the field.

The study of biochemistry can be combined with other life science disciplines in a more broadly-based Biological Sciences or Biomedical Sciences degree.

employability

A degree in Biochemistry, Molecular Genetics or Molecular Biology opens the door to many career options. Graduates in these areas are in great demand in the pharmaceutical, agricultural, food, biotechnology and healthcare industries, with openings for laboratory work or in the marketing, sales and management areas. Comparable openings can be found in the various agricultural, medical and veterinary research institutes, hospitals and the scientific Civil Service.

Dundee is a rapidly expanding centre for biotechnology with new firms opening and forming links with Dundee University biochemists. Work placements are encouraged and provide an exciting taste of the new industries. Many of our students enter areas of employment not directly related to science, often as trainee managers or salespersons. Others proceed to higher degrees (MSc or PhD) and go on to undertake or supervise original research, and some go on to take a degree in Medicine.

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Level 3

At Level 3 you specialise much more in biochemistry, molecular genetics and molecular biology, and you choose additional subjects that interest you to study alongside your main subject. You will develop your knowledge and skills in the following subject areas:

- DNA structure
- replication and repair
- transcription
- genome organisation
- regulation of protein function
- molecular genetic and proteomic analysis
- the molecular basis of inherited diseases
- cell structure
- the cytoskeleton
- cell adhesion
- nuclear architecture
- immunology
- signal transduction
- the regulation of cell growth and division

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

Level 4

Your studies at Level 4 will be at the level of current research in your chosen subject area.

- Advanced study of topics in biochemistry, molecular genetics and molecular biology with additional options chosen from related subject areas such as microbiology and developmental biology. The range of topics that is currently available includes:
  - the cell cycle
  - eukaryotic gene expression
  - bioinformatics
  - genomics & beyond
  - cell signalling
  - protein structure & function
  - single crystal X-ray diffraction
  - protein secretion & targeting
  - cytoskeletal function
  - the molecular biology of infection & immunity
  - immunotechnology
  - drug discovery for tropical diseases
  - virus molecular biology
  - bacterial membrane biology
  - antibiotic resistance
  - molecular oncology
- Research Project

drug discovery

minimum requirements and **degrees available** are given on page 56.

why study drug discovery?

The Biological Chemistry and Drug Discovery degree involves the design, chemical synthesis and testing of new medicines. Drug discovery is a practical science at the interface between chemistry, pharmacology and biology that includes modern computational methods combined with chemical and molecular biology techniques. We live in a new era with detailed knowledge of genes and the abilities to determine three-dimensional molecular structures and to create complex molecules. The Drug Discovery degree utilises these facets to identify drug targets against diseases such as cancer, diabetes, malaria and AIDS and to design and create new cures and safer, more effective drugs whilst also equipping you with extensive knowledge of assay design and development.

The College of Life Sciences is superbly placed to deliver this Drug Discovery degree. The University of Dundee's world-renowned research activities in molecular and cell biology and drug design mean that students are taught by a team of experts who work at the cutting edge of their field.

The Drug Discovery Honours degree is available either as a five-year programme with a year in industry or a four-year programme without a year in industry.

The degree with a year in industry provides an exciting opportunity for work experience with a leading local or international biotechnology or pharmaceutical company with which the University of Dundee has close links.

employability

This degree can lead to a wide range of careers including research and development in the pharmaceutical or biotechnology industries; chemical, pharmaceutical or biomedical research in universities or research institutes; teaching in further or higher education; scientific publishing; scientific patenting or further professional education and training. The interdisciplinary nature of the programmes also provides generic skills that are applicable to many careers. The degree is recognised by The Royal Society of Chemistry for associate membership (AMRSC).

what potential employers say

I have observed placement students at Axis-Shield Diagnostics grow in their confidence and willingness to contribute to research programmes. This will benefit them on their return to university and also their future careers.

Dr Murdo Black, R&D Director, Axis-Shield Ltd, Dundee

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Level 3

Specialist topics cover biochemistry, synthetic chemistry, analytical techniques and pharmacology.

> You will study synthetic organic chemistry with reference to biological and pharmaceutical applications.

> In analytical techniques you will cover the theory and applications of NMR spectroscopy, X-ray diffraction, spectroscopic and chromatographic analysis, protein structure prediction & modelling.

> You will also study drug metabolism and kinetics, drug design and screening technologies, mechanistic enzymology, drug targets & drug leads, pharmaceutical development, metabolism & drug interactions.

> The study of biochemical pathways and processes and molecular interactions at the cellular level will expand your understanding of disease processes.

Between Levels 3 and 4

A year working in industry if you have chosen the degree programme with a year in industry.

Level 4

Your studies at Level 4 will be at the level of current research in your chosen subject area.

> Advanced study of topics in the field of drug design and development. You will choose units from a range of topics that include:

- drug design and discovery
- advanced synthetic organic chemistry
- bioinformatics
- advanced instrumental analytical techniques
- protein structure and pharmacokinetics

You will be able to choose additional topics from a wide range of specialist research areas within life sciences according to your personal interests.

> Research Project

forensic anthropology

minimum requirements and **degrees available** are given on page 56.

why study forensic anthropology?

Forensic anthropology serves the investigative and judicial communities by analysing human remains for medicolegal purposes. It is a specialised area of science that requires detailed anatomical and osteological training. Being able to assign a name to the deceased is critical to the successful outcome of all legal investigations, and this becomes increasingly complex as the body passes through the various transitional phases of decomposition. Forensic anthropology has adopted a pivotal role in both UK and international investigations being core to issues of repatriation, mass disasters and war crimes.

Since 2004 the University of Dundee has offered the first undergraduate degree programme in forensic anthropology in the UK.

The course is centred around human anatomy as the identification of the deceased relies heavily on not only hard tissue but also soft tissue information.

A complex subject such as identification requires a multidisciplinary approach that demands free collaboration with many other fields of research and teaching including medical and dental disciplines, biomedical sciences, environmental sciences, law and imaging analysis.

employability

As a graduate in forensic anthropology you will have an excellent grounding for a career in biomedical research, scene of crime analysis, forensic science, human biology and osteological research.

Those who choose to enter a degree in medicine will find that the skills they have acquired will stand them in good stead, particularly with regards to radiology, paediatrics, gerontology and orthopaedics.

Some graduates may, of course, choose to progress to become teachers and researchers in the field of forensic anthropology or to provide their skills and services on both the national and international forensic front. This BSc degree programme provides the first stage in the Forensic Anthropology Career Foundation Path offered by this University. Your communication and transferable skills will be widely recognised and valued by a wide range of employers.

what's the best thing about your course?

The lecturers are all working forensic anthropologists and have first hand experience in the field. They are all well known within the scientific community and its amazing to think they are teaching me.

Naomi Hatch from South Africa, graduated in 2011 with BSc (Hons) Forensic Anthropology

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Level 3

At Level 3 you will study human anatomy and will:

> acquire a detailed understanding of the anatomy of the human body

> begin to appreciate the intimate relationships between human form and function

Practical human anatomy is a substantial component of the Level 3 programme.

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

Level 4

Your studies at Level 4 will be at the level of current research in your chosen degree subject.

> Advanced study of topics that currently include:
  - sex determination from human remains
  - age determination from human remains
  - biological identity
  - personal identity
  - pathology and trauma
  - time death interval
  - police, the law and the mortuary

> Research project

microbiology

minimum requirements and **degrees available** are given on page 56.

why study microbiology?

Microbiology is the study of organisms – bacteria, fungi, algae, protozoa, and viruses – that are too small to be seen with the naked eye. It is concerned not only with pathogenic microbes that cause disease but also the predominantly beneficial activities of microbes in the environment and their many biotechnological applications.

The microbiology degree programme at Dundee deals with aspects of the subject ranging from those of medical importance (such as infectious diseases and immunology) to those of environmental and biotechnological importance (such as control of pollution and bioremediation). It is a multidisciplinary programme, reflecting the overall breadth of microbiology, and benefiting from the strengths of the College of Life Sciences at Dundee in the biosciences and from our links with Ninewells Hospital & Medical School and the Scottish Crop Research Institute. Major areas of microbiological research include aspects of fundamental and applied microbiology, ranging from mechanisms by which microbial pathogens and their hosts interact to environmental decontamination, and involve molecular, cellular and environmental studies using model organisms as well as those of health and economic significance.

The study of microbiology can be combined with other life science disciplines in a more broadly-based Biological Sciences or Biomedical Sciences degree.

employability

The multidisciplinary nature of microbiologists' training means that they find employment in a wide variety of positions in academic research (e.g. biomedical, genetic, agricultural or ecological research), in hospital laboratories, in environmental health and in teaching. Industry employs microbiologists in the manufacture of numerous products, such as pharmaceuticals, chemicals, cosmetics, food and drink, either because microorganisms are used in the process or for reasons of microbiological safety and hygiene. In addition, many microbiology graduates find careers in management, regulatory affairs, publishing, patent documentation and the media, where their scientific training is valued.

what our graduates are doing

Karrie Melville graduated in 2002 with BSc (Hons) Microbiology. She went on to study for her PhD at Dundee and graduated in 2006. Since then she has worked for BB International developing lateral flow devices, and now works for Neogen Europe Ltd, a high technology business dedicated to the development and marketing of novel diagnostic kits for European agri-food industries.

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Level 3

At Level 3 you specialise much more in microbiology, and choose additional subjects that interest you to study alongside your main subject. You will develop your knowledge and skills in the following aspects of microbiology:

- microbial diversity
- molecular and cellular microbiology
- microbial growth and morphogenesis
- applications of microbes and molecular genetics in medical, agricultural and environmental microbiology
- molecular biology and pathogenesis of viral, bacterial, fungal and protozoan infectious diseases
- molecular diagnostics
- antimicrobial chemotherapy
- characteristics of the immune system
- immune responses to infectious diseases
- causes and consequences of immune dysfunction

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

Level 4

Your studies at Level 4 will be at the level of current research in your chosen subject area.

- Advanced study of topics in microbiology with additional options chosen from related subject areas such as biochemistry, molecular genetics, molecular biology and developmental biology. The range of topics that is currently available includes:
  - molecular biology of infection & immunity
  - immunotechnology
  - microbiology of the gastrointestinal tract
  - bioenergy & bioremediation
  - multicellular behaviour by prokaryotes
  - virus molecular biology
  - bacterial membrane biology
  - bioinformatics
  - drug discovery for tropical diseases
- Research project

neuroscience

minimum requirements and **degrees available** are given on page 56.

why study neuroscience?

Understanding how the brain functions in both health and disease is one of the great intellectual challenges of this century. Such studies are vital as we seek to better understand and treat neurodegenerative conditions such as Alzheimer's disease and neurological disorders such as epilepsy. Elucidating how drugs influence our mood and behaviour is essential in developing new treatments for conditions such as anxiety and depression and in the better management of drug addiction.

Neuroscience is the study of the functioning of the nervous system, both in health and disease. The topic ranges from understanding the molecular, biochemical and cellular events that underpin communication between nerve cells, through to the execution of complex behaviours such as playing a piano. Higher cognitive functions, such as learning, memory and emotions ultimately depend upon cellular and neuronal networks that neuroscience endeavours to reveal and explain. The discipline grows in importance to society as the aged proportion of the population increases, bringing new challenges in the treatment and management of neurological disorders.

Modern neuroscience is not an isolated discipline, but rather one that integrates the inputs of, for example, biochemistry, physiology, pharmacology, pathology, psychology and psychiatry to address the normal and abnormal functioning of the nervous system in a multifaceted approach.

Such inputs are emphasised in the course developed at Dundee which offers a balance between molecular and cellular aspects of the subject and systems and clinical neuroscience.

A major strength of the programme in the Honours year is its emphasis upon clinically relevant aspects of the discipline and coverage of behaviours and neurological conditions that by their prevalence or severe morbidity are issues of concern to society. In this respect, many course units benefit from the active involvement of medical doctors, bringing a therapeutic perspective to our Honours degree programme. All Honours units are pitched at the cutting-edge of neuroscience research and are delivered by acknowledged experts in their field.

employability

Graduates in neuroscience pursue a variety of careers that utilise their specialist knowledge, or more generally draw upon the analytical and organisational skills developed in their training. Furthermore, a degree in Neuroscience, in common with many other Life Science degrees, can provide a qualification for graduate entry to medicine or dentistry. Specific career paths for neuroscience graduates include: academic research in universities, institutes and the pharmaceutical & biotechnology industries. Opportunities also exist in medical/scientific information, the media and publishing.

what our students say

The standards of teaching are phenomenal, with staff being expert in their knowledge and enthusiastic when lecturing.

Final year student comment from the National Student Survey

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Level 3

At Level 3 you specialise in neuroscience, and choose additional subjects that interest you to study alongside your main subject. You will develop your knowledge and skills in the following aspects of neuroscience:

- peripheral and central nervous system neuroscience and pharmacology
- common mechanisms of cell signalling
- basic principles of drug receptor interactions
- aspects of molecular neuroscience and pharmacology

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

Level 4

Your studies at Level 4 will be at the level of current research in your chosen subject area.

- Advanced study of neuroscience topics that currently include:
  - sensational channels – the transient receptor potential family
  - neurodegenerative disorders
  - molecular mechanisms of learning and memory
  - neuroanatomy and neuropathology
  - analgesics and anaesthetics
  - psychobiology and treatment of mental illness
  - faints and fits – a neurological disorder
  - neurobiology of drug addiction
- Research project

pharmacology

minimum requirements and **degrees available** are given on page 56.

why study pharmacology?

Pharmacology is a biomedical science that studies how and where in the body drugs act to produce their effects, from the whole organism down to its individual cells. Most drugs produce their effects by interacting with particular molecular components (e.g. specific proteins) within cells. Pharmacology also considers the body's handling of drugs – how drugs are administered and absorbed, how they distribute within the body, and how they are eventually inactivated and/or excreted, often after being modified in chemical structure by the action of enzymes found in the body.

The term 'drug' encompasses not only the familiar idea of chemicals as medicines (e.g. aspirin, penicillin) or as legal or illegal 'pleasure promoting' agents (e.g. alcohol, cannabis) but also includes poisons such as environmental or industrial pollutants, toxins from snakes and other creatures, and agents (e.g. 'nerve gases') of potential use in chemical warfare. The study of pharmacology therefore has important links with a variety of factors affecting our health and welfare in the modern world.

Modules available at Levels 3 and 4 give progressively more specialisation in pharmacology, with units in Level 4 being taught by laboratory-based scientists who carry out pharmacology-related research at Ninewells Hospital and Medical School in Dundee, where the Level 4 sessions are held. This location also enables medical colleagues, who are involved in treating patients, to be included in some Level 4 teaching units to provide a first-hand clinical perspective of the use and actions of drugs.

Pharmacology can be studied as a single Honours degree programme or can be combined with another discipline, e.g. physiological sciences, in a Biomedical Sciences degree.

employability

Pharmacology graduates are employed in many areas of medical and veterinary research in universities, industry and government-financed institutions. Many of our Honours graduates proceed to MSc or PhD degrees. In addition, pharmacologists have not only played a pivotal role in the UK pharmaceutical industry with an excellent record of drug discovery and development, but their skills are also welcome in other fields such as clinical trials, drug regulation and pharmaceutical marketing. Furthermore, a degree in pharmacology can be used to apply for graduate entry to study medicine or dentistry. However, it does not provide the qualification to be a pharmacist in the UK, for which a degree in pharmacy would be required.

what our graduates are doing

Andrew Holt graduated in 1989 with BSc (Hons) Pharmacology. Following graduation he studied for an MPhil then PhD at Cambridge. Since then he has worked in academia and in the private sector in Canada and is now Associate Professor in pharmacology at the University of Alberta. He says, "The real world is a very competitive place. Your time spent at Dundee is an opportunity to give yourself a significant competitive advantage - don't waste the opportunity!"

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Level 3

At Level 3 you specialise in pharmacology, and choose additional subjects that interest you to study alongside your main subject. You will develop your knowledge and skills in the following aspects of pharmacology:

> peripheral and central nervous system pharmacology
> mechanisms of cell signalling
> basic principles of drug-receptor interactions
> aspects of molecular pharmacology

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

Level 4

Your studies at Level 4 will be at the level of current research in your chosen subject area.

> Advanced study of topics in pharmacology that currently include:
  - cardiovascular pharmacology
  - pharmacogenomics (improving drug therapy & safety)
  - modulating the immune response
  - molecular aspects of toxicology and carcinogenesis
  - targeted treatments of cancer
  - neurodegenerative disorders
  - molecular mechanisms of learning and memory
  - psychobiology and treatment of mental illness
  - analgesics and anaesthetics
> Research project

physiological sciences

minimum requirements and **degrees available** are given on page 56.

why study physiological sciences?

Physiology is about the functions of living organisms, such as the circulation and function of the heart, food and digestion and the energetics of muscle contraction. Its scope ranges from understanding events at the molecular level (e.g. how cells sense nutrients) to the integrative physiology of organs and systems and how they are regulated and adjust to change (e.g. in response to exercise and to environmental extremes such as the microgravity of space flight).

It is available as a single Honours degree programme and can be combined with several other disciplines, in the Anatomical & Physiological Sciences degree, or combined with another subject e.g. pharmacology, in a Biomedical Sciences degree.

We are committed to delivering excellent physiology teaching and have been active in developing teaching software to help deliver both lecture and practical material.

employability

As a graduate in physiological sciences you will have an excellent grounding for a career in, or further training for, biomedicine and related fields including biochemistry, pharmacology and physiotherapy. Many of you will contribute to a better understanding of the basis of human performance, taking higher degrees and then going on to careers in biomedical research. You will also be welcomed into applied research and development in the pharmaceutical and biotechnology industries. Some of you will go on to teach in schools and universities. We also have a good record of postgraduate entry to medicine. A broad spectrum of employment is available to graduates in any discipline and your training in communication and transferable skills will be recognised and valued by a wide range of employers.

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Level 3

At Level 3 you specialise much more in physiology, and you choose additional subjects that interest you to study alongside your main subject. You will study aspects of cellular and molecular physiology that currently cover:

> membrane physiology
> ion and nutrient transport
> cell-cell communication
> cell excitability and neurophysiology

The knowledge you gain from these topics will then be carried forward to demonstrate how function at the cell and molecular level is integrated into control of physiological systems (e.g. respiratory, cardiovascular, etc.) and the whole body.

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

Level 4

Your studies at Level 4 will be at the level of current research in your chosen subject area.

> Advanced study of topics in physiological sciences that currently include:
  - membrane transport
  - lung development and function in health and disease
  - regulation of cardiac function
  - human reproduction
  - pain
  - modern techniques of human metabolic investigation
  - regulation of nutrient exchange
  - nutrient induced responses
  - regulation of fuel and oxygen utilisation
  - comparative animal physiology

> Research project

what our graduates say

Ruth Binns graduated with BSc (Hons) Anatomical & Physiological Sciences and is presently studying for a PhD at the University of Leeds. She says…

> Physiology helps you answer those nagging questions about how we all work.

sports biomedicine

minimum requirements and **degrees available** are given on page 56.

why study sports biomedicine?

Sports biomedicine is biological and medical science applied to sport and exercise. The aim of this degree is to develop you both as a sports scientist and as a life scientist in order to give you a better chance of employment in a competitive market compared to other sports-related degrees.

The sport and exercise-related part of the course focuses on three areas: exercise and training science in relation to enhancing athletic performance, clinical exercise science and the prevention and management of disease states, and molecular exercise physiology. The teaching in these areas is by staff of the College of Life Sciences and the Institute of Sport & Exercise, and benefits from our combined expertise and established links with Ninewells Hospital and Medical School.

Sports Biomedicine graduates will gain a wide range of specific skills and will be able to:

- Undertake physiological testing for clinical patient groups, recreational exercisers and competitive sports people.
- Design and administer sports training programmes.
- Plan, manage and implement exercise-related public health campaigns.
- Plan and implement physical activity programmes for clinical populations such as patients with heart disease, diabetes or osteoporosis.
- Research the mechanisms that facilitate adaptation to exercise and identify genetic variation that determines high performance.
- Plan, implement and manage cutting-edge research pertaining to the field of sports biomedicine.

employability

A degree in Sports Biomedicine will provide you with specific and general skills that can lead to a variety of careers, not only in the sport and exercise, but also the biomedical field. Examples are sport and exercise researcher; applied sports/exercise scientist; sports coach or development officer; health promotion officer; clinical exercise physiologist/advisor; teacher/lecturer; sports administration for the public sector and sports governing bodies. You will also find career opportunities in management or research and development in the nutritional, pharmaceutical and sports equipment industries, as well as in many areas of biomedical research. The degree can also provide a platform for further professional education and training or for teaching in further and higher education.

programme content • typical degree programme example

Please refer to the **Biological/Biomedical Sciences overview** on page 56 for details of the common curriculum in Levels 1 and 2 and progression into the Integrated Masters (Level 5).

Level 3

At Level 3 you will combine aspects of exercise science specific to sports biomedicine with advanced study of human physiology. You will develop your knowledge and skills in the following aspects of exercise science and human physiology:

> the prevention and management, by physical activity and exercise, of
  - cardiovascular & respiratory diseases
  - diabetes mellitus
  - osteoporosis
  - muscle wasting disorders & ageing, and the teaching of relevant exercise classes,

> muscle adaptation to exercise,

> signal transduction pathways,

> gene regulation.

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

Level 4

Your studies at Level 4 will be at the level of current research in your chosen subject area.

> Advanced study of topics in sports biomedicine that currently include:
  - sports nutrition
  - nutrient-induced responses
  - modern methods of human metabolic investigation
  - regulation of fuel and oxygen utilisation
  - exercise and cancer sholarship
  - physical activity and health
  - whole body vibration – risks and benefits
  - lung development and function

> Research project

business computing

minimum requirements

SQA Higher:	**ABBB**
GCE A-Level:	**BBB**
ILC Higher:	**ABBB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	Mathematics and a science (H, A-L, ILC H, HL).

advanced entry (to Level 2)

SQA Advanced Higher:	**BB** + **BB** (H) in different subjects
GCE A-Level:	**ABB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Mathematics and a science (AH, A-L, HL) and completion of the University's Java Online module.

other qualifications

Please see 'Computing' on page 138 for details.

degree programmes (with UCAS Codes)

BSc Business Computing G4N1

See **making your application** on page 32.

See also degrees in:
BSc Applied Computing (page 40)
BSc Computing Science (page 78)
BSc Digital Interaction Design (Page 82)

> The course is well structured and the lecturers are very passionate.
>
> *Final year student comment from the National Student Survey.*

why study at dundee?

The IT specialists of the next decade will need to be multi-skilled in order to keep up with the technological demands of international business. They will not only need to have the expertise to build technology for businesses but also understand business practice. The BSc Business Computing degree develops these computing skills and meets the demands of businesses, both nationally and internationally.

At Dundee, business computing involves learning about computing, business, marketing, management, software development and the law. Our programme has been designed to be truly interdisciplinary with expertise coming together from across the University. One of our modules – Technology Innovation Management - has been specially developed with leading industry experts and is the first of its kind in the UK. It is designed to equip today's software engineering graduates with technical marketing skills.

This programme focuses on the computing skills necessary to support global business interactions, including:

- selling online, through 'virtual storefronts' and online catalogues
- the exchange of business data
- online market research
- ensuring the security of business transactions.

You will have 24-hour access to our award-winning computing building. It has an unusual mixture of lab space and breakout areas, with a range of equipment for you to use such as programming kit for games consoles including the Nintendo Wii and Sony Playstation. The School of Computing is also home to one of only two Microsoft Surface tables in Scotland.

employability

As a business computing graduate, you will have a broad range of skills and knowledge, making you highly employable in today's marketplace. One recent graduate - now an IT Analyst - was one of ten student finalists at a recent international competition, winning an all-expenses-paid trip to Monaco. He said: "My project was highly appreciated. I also met with many industry executives from companies including Nokia, Philips, SCM Technologies and Motorola. I also got four job offers from different companies."

You will learn to use your skills in a real-world environment. For example, for an assignment to produce a market requirements document, students had to interview product managers from companies including Cisco, IBM, Sun, Money Dashboard, Wolfson and Microsoft.

You can take a work placement in the summer vacation between Level 3 and Level 4 to greatly enhance your employability and give you a good insight into working in industry. One recent graduate particularly valued the broad range of skills provided by the business computing degree, including business areas such as accountancy and marketing: "This wide range of skills allowed me to gain a summer placement in game management with Cohort Studios."

teaching and assessment

Different learning activities are provided to develop your understanding and skills, and move you towards professional independence:

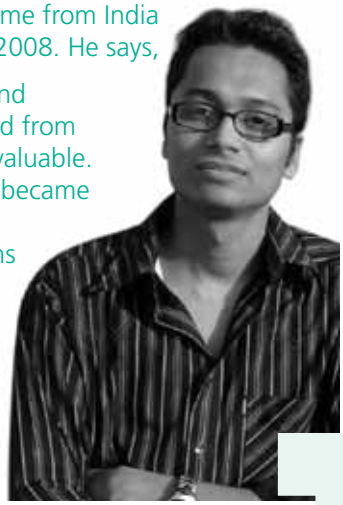
- Lectures to present theory and design methodology
- Examples that illustrate key concepts through on-screen presentations, class participation and live demonstrations
- Laboratory classes for you to practise what you have been taught, with support and guidance from tutors
- Coursework - individual, in pairs or in a team - for you to develop your skills
- Guided revision of your knowledge in tutorials
- Project work to consolidate your learning through practical and challenging software development projects, and to prepare for your career in industry.

The weightings we allocate to assessed coursework and final examination vary from module to module: 50-60% may be allocated to the final exam, but this can be less in some modules and higher in others.

what our graduates are doing

Abhishek Singh came from India and graduated in 2008. He says,

"The experience and knowledge I gained from this course was invaluable. After graduation I became an Analyst with BlackRock Solutions (a sister company of Merrill Lynch). I started my training in New York before joining the Edinburgh office."



programme content • typical degree programme example

BSc Honours degree →

Advanced entry BSc Honours degree →

Level 1

> **Computing** - software development, Java programming, and team project
> **IT** - web authoring, HCI, physical computing, design and test
> **Business Understanding** - accounting, supply, demand, consumer theory, markets and profits

Level 2

> **Computing** - UNIX and computer systems, C++ programming
> **Business and Technology** - databases and project management, web development project with a real client
> **Business** – microeconomics, management information systems

Level 3

> **Information Systems** - database design for the business world, data warehousing and data mining, new technologies for producing, securing and maintaining www sites
> **Marketing and Business** - linking knowledge of marketing to an understanding of how enterprise creates customer value
> **Usability Engineering** - GUI programming, software engineering and HCI
> **Modelling and Architecture** - analysis, design and introductory business process modelling, essentials of modern computer architecture and the role of operating systems, data communications and architecture options

Level 4

> Industrial Team Project - a 3 week team project set by an external customer
> Secure e-commerce
> Technology Innovation Management
> 18 week Individual Project

plus 4 modules from Research Frontiers options appropriate to business computing, such as:

> Human Resources
> Marketing Research
> Intelligent Agents for E-Commerce
> Interactive Systems Design
> Natural Language Processing

business management

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	English and mathematics (SG at 2, Int2 at C, GCSE at B, Ord at B, SL at 5).

advanced entry (to Level 2)

SQA Advanced Higher:	**AAB**
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Business management or a related subject (AH, A-L, HL) and English and mathematics (SG at 2, Int2 at C, GCSE at B, Ord at B, SL at 5).

other qualifications

Please see 'Accountancy' on page 138 for details.

degree programmes (with UCAS Codes)

BSc Business Management	N200
BSc Business Management (Accounting & Finance)	NN24

See **making your application** on page 32.

why study at dundee?

The career prospects of our students are excellent. At Dundee, we aim to help you develop the skills and techniques needed to enter a variety of rewarding careers in the business and management area.

The content of our two business management degrees is topical and relevant. We want you to understand the nature, power and limitations of various business techniques; how management can influence a business' performance; how business and other types of organisations can help society to function and address society's problems.

Our teaching staff are leading experts in the areas of business and management. In addition, they are committed to providing a stimulating, supportive, friendly and well organised environment for students. Most of our staff have business experience as well as an academic background. They have strong links with companies as well as professional bodies. Thus, the degree content is informed both by innovations in practice and developments in academic thinking.

employability

Our degrees are designed to prepare you for a wide variety of careers in the areas of business and organisational management. They provide a business management education emphasising analytical, decision-making and communication skills. These skills are needed in organisations of all types and sizes – both in the UK and internationally.

Your career is important to us and the practical relevance of our business management degrees is kept under careful review. We liaise with employers and the university careers service to ensure that they continue to meet the needs of the graduate employment market. In Level 2, you will have the opportunity to go on a short placement in a local business which will further increase your employability after graduation.

Our graduates are to be found working all over the world in a variety of interesting and challenging jobs. Many are employed by large multi-national firms or with smaller firms in the UK including manufacturing companies and financial institutions – some as managers in specialist positions and some as accountants; some operate in the public sector, while others are running their own businesses.

teaching and assessment

Your degree will include a good grounding in professional knowledge and skills. It will give you exposure to many of the latest developments in business and organisational research to which Dundee's staff make a major contribution. The optional modules available in Level 4 allow specialist business management areas to be studied in greater depth.

You do not need any prior knowledge of business or management to be accepted. Both business management degrees follow a similar curriculum; however, the BSc Business Management (Accounting & Finance) is structured for students who are more numerically confident, and the modules reflect this.

Our programmes are delivered using a variety of lectures, seminars, workshops, tutorials and hands-on computer labs. Assessment is by a mixture of coursework (for example, an essay), computer labs, projects based on group assignments and exams.

In Level 1, three subjects are delivered per semester – each having approximately 5 hours of classes. We expect students to undertake an additional 20 hours of individual study per week to prepare for classes and revise material covered in lectures or tutorials.

what's so good about business management at dundee?

In Level 2, students go on a short placement in a local business. Throughout the degree guest lectures are given by managers from a variety of businesses and other organisations to help you appreciate how business management issues are handled in the real world.

programme content • typical degree programme example

BSc Honours degree →

Advanced entry BSc Honours degree →

Level 1

- International Business Environment
- Foundation Economics
- Business Statistics
- Business Information Systems

For BSc Business Management

- Career Planning
- Business Accounting and Finance for Non-Specialists

For BSc Business Management (Accounting & Finance)

- Introductory Financial Accounting
- Introductory Management Accounting

Level 2

- Intermediate Financial Management
- Financial Decision Analysis
- Business Law
- Management Concepts in Context
- Management Information Systems

For BSc Business Management

- Internship

For BSc Business Management (Accounting & Finance)

- Intermediate Management Accounting

Level 3

- Strategic Management
- Business Systems
- People and Work
- Managing the Human Resource

Plus **two** options, including the opportunity to take a European language (French, German or Spanish).

Please visit our programme webpage for an up-to-date list.

Level 4

- Organisational Change
- Advanced Management Information Systems
- Managing Human Rights

Plus **three** options, including the opportunity to take a European language (French, German or Spanish).

Please visit our programme webpage for an up-to-date list.

Notes on Programme Progression

All students on the BSc Business Management (Accounting & Finance) degree take a set of modules at Level 1 that are similar to those taken by students on the BAcc, BFin and BSc International Business degrees.

Thus, at the end of Level 1, students can transfer between degrees if they want to specialise in certain areas such as Accountancy, Finance or International Business (Economics).

Please visit our webpage for more information about programme progression.

civil engineering

minimum requirements

SQA Higher:	**AAAB**
GCE A-Level:	**ABB**
ILC Higher:	**AAAB**
IB Diploma:	**32** points with 6, 5, 5 at HL
Essential subjects:	Mathematics and a science or engineering subject (physics for MEng) (H, A-L, ILC H, HL).

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **AB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Mathematics and a science or engineering subject (physics for MEng) (AH, A-L, HL)

other qualifications

Please see 'Engineering, Physics and Mathematics' on page 140 for details.

degree programmes (with UCAS Codes)

MEng Civil Engineering Design & Management	H201
BEng Civil Engineering	H200
BEng Civil Engineering and Management	HN22

See **making your application** on page 32.

professional accreditation

Our MEng and BEng programmes are accredited by the Institution of Civil Engineers (ICE), Institution of Structural Engineers (ISE), and the Chartered Institution of Highways and Transportation (CIHT) at CEng Level.

why study at dundee?

We are one of the top civil engineering departments in the UK as determined by recent national league tables. We provide a friendly but rigorous learning and teaching environment, with a high staff-student ratio and an excellent employment record for our graduates.

Our staff are constantly seeking to meet new challenges and opportunities within the areas of civil, structural and environmental engineering. Our programmes are research-led and therefore develop continuously to reflect leading-edge technology and current and emerging needs of the profession.

There are opportunities for vacational industrial placements at all levels with a range of major companies and organisations.

If you can combine intellectual talent with a creative, innovative and practical outlook - if you want a wide variety of opportunities and challenges during your university studies and in your career - if you wish to develop the skills to effect positive changes and improve the natural and built environment on local and global scales - then this is the programme for you.

employability

There is a continuing demand for civil engineers particularly in the energy and water sectors and the skills of the civil engineer are highly portable in the multi-disciplinary engineering sectors. The Institution of Civil Engineers Salary Survey (2010) for the UK indicates that the average total income of its senior members is nearly £100k, while that of recent graduates is £27.5k.

We are proud of our achievements in graduate employment. The blend of science, technology and management education and training gained in a unique learning environment that is both challenging and friendly, makes our graduates attractive to employers in civil engineering and a wider range of sectors. Graduates from Dundee have gone on to achieve high level positions in most sectors of the profession. These include consulting engineers and contractors, the offshore industry and research organisations.

teaching and assessment

The quality of teaching in civil engineering is of the highest level and helps us to achieve our primary aims of developing your ability to think creatively and to cultivate your ability in communicating, problem-solving and applying knowledge to practical situations.

Our degree programmes, both MEng and BEng, are accredited to the latest requirements for the progression to full Chartered Engineer status. The MEng automatically satisfies both parts of the Educational Base to become a Chartered Engineer. Qualification with the BEng (Hons) requires a period of further learning to satisfy the second part, such as a full or part-time course, or a suitable employer-led learning programme.

The MEng degree programme normally runs for four/five years, while the BEng Honours degree runs for three/four years. Entry to Level 2 of both programmes is possible for appropriately qualified applicants. Advanced entry to Level 3 of the BEng is possible if you have previously studied civil engineering or a related subject in a higher education establishment.There is an opportunity during the programme, if your progress permits, to transfer from the BEng to the MEng at the end of Semester 1 in Level 3.

A range of teaching methods is employed, including: lectures, tutorials, experiments within our extensive research laboratories, design and research projects, computer aided design, computer aided learning, site visits/experience, specialist seminars, surveying/geology residential camp and the application of professional software.

Modules are assessed through either examination or coursework, (e.g. laboratory reports, structural design submissions) or a combination of these.

what our graduates are doing

Stuart Ross graduated in 2009 with a 1st class MEng Honours degree in Civil Engineering Design and Management. He is now a graduate civil engineer with Arup, a global firm which works on a wide range of projects around the world. He also won the New Civil Engineer Graduate of the Year Award for 2010. Stuart says, "In a competitive market a civil engineering degree from the University of Dundee has provided me with the necessary skills to be successful in the 'real world'. In particular, the combination of practical and theoretical work, as well as the support provided by lecturers, has not only prepared me for industry but also given me a head start in my professional development."

programme content • typical degree programme example

BEng Honours degree (4 years) →
MEng Honours degree (5 years) →
Advanced entry BEng Honours degree (3 years) →
Advanced entry MEng Honours degree (4 years) →

Level 1
- Mathematics 1 and 2
- Mechanics
- Professional Development
- Professional Studies
- Project

Level 2
- Engineering Design and Communications
- Engineering Science
- Software for Engineering
- Geomechanics
- Mathematics for Engineers
- Structural Analysis 1
- Surveying

Level 3
- Civil Engineering Materials and the Environment
- Conceptual Design Project
- Design Project
- Fluid Mechanics
- Mathematics for Engineers
- Soil Mechanics
- Steel and Concrete Structures
- Structural Analysis II
- The Business Framework

Level 4
- Research Project

plus six modules from a choice of:

- Advanced Soil and Rock Mechanics
- Concrete Durability and Repair Technology
- Environmental Hydraulics
- Geo-environmental Engineering
- Project and Construction Management
- Structural Design
- Structural Systems
- Water Resources and Treatment

Level 5 (MEng only)
- Advanced Structural Analysis
- Management Futures
- Multi-disciplinary Project
- Soil Dynamics and Earthquake Engineering
- Sustainable Construction

We were ranked No. 1 in Scotland & 2nd in the UK by the Guardian University Guide 2012.

community learning & development

minimum requirements

SQA Higher:	**ABB/BBBC**
GCE A-Level:	**AB/CCC**
ILC Higher:	**ABB/BBBC**
IB Diploma:	**29** points with 5, 5, 4 at HL
Essential subjects:	English or a literate subject at C (H, AS, ILC H).

other qualifications

Please see 'Education, Social Work and Community Education' on page 138 for details.

advanced entry (to Levels 2/3)

Prior learning and experience will be accredited and those who possess relevant entry qualifications are encouraged to apply for advanced entry including:

Level 2 entry: A relevant HNC with B in the Graded Unit or a relevant HND, along with evidence of competence in key areas of community learning and development.

Level 3 entry: A relevant HND with merits in at least six units or with BB in the Graded Unit, along with significant evidence of competence in community learning and development.

selection notes

1. The programme can be undertaken on a full-time or a work-based mode.
2. A Disclosure Scotland Criminal Records Check will be conducted, with permission of the applicant, prior to acceptance.
3. Experience of voluntary or paid work in community learning and development or a related field is desirable.
4. The School of Education, Social Work and Community Education is committed to widening access to higher education and will consider applicants with previous learning through study or practical experience who do not meet the standard entry requirements.

degree programme (with UCAS Code)

BA Community Learning and Development X390

See **making your application** on page 32.

professional accreditation

Our programme is fully accredited and approved by the Community Learning and Development Standards Council Approvals Committee, which means that graduates will have a professionally recognised qualification in community learning and development.

why study at dundee?

This is an exciting and vibrant programme which reflects the current field of community learning and development practice in Scotland and the UK. Community learning and development is designed to enrich the lives of individuals and groups by engaging with people living within a geographical area or sharing a common interest to develop a range of learning, action and reflection opportunities determined by their personal, social, economic and political needs.

If you enjoy working with people, engaging in lively discussions about the issues in society today and are someone who is willing to share ideas and be open to the ideas of others, then you are likely to do well on this programme. It has been designed around the concept of the self-monitoring critically reflective professional, in other words the willingness and ability of the professional to question, analyse, and evaluate their values, practices and experiences.

Community learning and development workers need to demonstrate competence in their ability to engage with the community, develop relevant learning opportunities, empower participants, organise and manage resources, and use evaluative data to assess and implement appropriate changes.

You will have a key responsibility in shaping community learning and development activities, and an opportunity to make a difference to the society in which you live. Uniquely in Scotland, there is also the chance to complete the programme via a workplace-based mode of study.

employability

The knowledge and skills that you acquire on this programme will prepare you for a variety of employment opportunities in working with adults, young people and communities in both the statutory and voluntary sector. This qualification is especially attractive to employers because it includes studying policy initiatives in relation to social justice and partnership working between local authority departments; further education; housing associations; health services; employment agencies; and the police services.

Our students also have the opportunity to participate in extended periods of practice learning at Level 2, Level 3 and Level 4. This valuable field experience enables students to integrate theory and practice within a workplace setting with a positive impact on their future employability.

The majority of our graduates go directly into employment, which recently has included working in a variety of settings such as community centres and libraries; neighbourhood projects; primary and secondary schools; off site school provision; further education; housing associations and homeless units; training, employment and voluntary organisations.

Graduates can enter a wide range of roles including:

- Youth participation and citizenship
- Adult and youth literacies
- Community based adult learning
- Local authority community planning officer
- Equalities and diversity
- Mental health project
- School pupil support
- Volunteer co-ordinator
- Employment support.

what's so good about community learning & development at dundee?

Having practice placements is very beneficial. Peer learning has definitely helped my understanding of the course.

Final year student comment from the National Student Survey 2011

teaching and assessment

During your time on the programme you will experience a range of teaching methods, such as lectures, seminars, practice based learning, projects and e-learning. With the support of tutors you will be encouraged to become an independent learner and to participate in a range of peer learning communities. Experienced practitioners also contribute to the delivery of the programme and this supports your engagement with the ongoing changes in the professional field of practice.

Inter-professional modules, such as 'Working Together to Achieve Social Justice' are an integral feature of the programme and you will study modules with education and social work students. In order to maximise opportunities for personal, professional and academic growth, a system of professional development tutorial support is provided to all students both within the University and the practice learning setting.

Assessment is continuous and the methods of assessment include professional development learning plans, professional development reviews, essays, reports, practice e-portfolios and practice assessment reports.

Students can study the programme via the full time or work-based mode. Please visit the programme webpage for more information about these different modes of study and the application procedure for each one.

programme content • typical degree programme example

BA Honours degree →

Advanced entry BA Honours degree →

Level 1

- Self as an Emerging Community Learning & Development Professional
- Working Together to Achieve Social Justice
- Making Sense of Community Learning and Development
- Developing Communication Skills and Inclusive Safe Practices (includes Practice Inquiry)

Level 2

- Developing Conceptual Frameworks
- An Introduction to Social Research
- Developing Sustainable Organisations
- Working Together to Achieve Social Justice
- Practice Learning (70 days)

Level 3

- Reading and Understanding Research
- Negotiated Independent Study
- Working Together to Achieve Social Justice
- Practice Learning (70 days)

Level 4

- Practice Based Dissertation/Internship (100 days)
- Analysis and Critique in Community Learning and Development

For information on the professional development and distance learning programmes offered in this area, please visit www.dundee.ac.uk/prospectus/distance

computing science

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	Mathematics and a science (H, A-L, ILC H, HL).

advanced entry (to Level 2)

SQA Advanced Higher:	**BB** + **BB** (H) in different subjects
GCE A-Level:	**ABB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Mathematics and a science (AH, A-L, HL) and completion of the University's Java Online module.

other qualifications

Please see 'Computing' on page 138 for details.

degree programmes (with UCAS Codes)

BSc Computing Science G400

See also degrees in:

BSc Applied Computing (page 40)

BSc Business Computing (page 70)

BSc Digital Interaction Design (page 82)

See **making your application** on page 32.

professional accreditation

Our programme fulfils the accreditation requirements of the Chartered Institute for IT and the British Computer Society, Chartered IT Professional (CITP), Chartered Engineer (CEng) and Chartered Scientist (CSci).

why study at dundee?

BSc Computing Science is a degree for people who enjoy the challenge of understanding the technical background of algorithm and software analysis and using these skills to solve real-life problems.

Our degree focuses more on practice but still provides you with knowledge of the theoretical, scientific and mathematical components of computing such as:

- algorithms for data processing and analysis
- the fundamental theory of information and computation
- software engineering principles and practices
- the mathematics that underpins computational systems.

However, computing scientists do not deal with just hardware; they care about everything in between those areas. They design and develop all types of software from the large banking system which allows money to be sent internationally, to the small bit of software which identifies your iPod when you attach it to your laptop.

We train our students to have a creative approach to programming. As a result, our students are successful, employable and proud of what they do.

employability

Our students are highly employable:

- They develop the expertise that employers want of computing graduates – our industrial advisory board includes experts from 2in10, NCR, Chevron, Microsoft and Cisco.
- Our course portfolio is modelled upon the needs of the industry, and it is updated annually to maintain its relevance to the real world.
- They work directly with employers - international forum discussions in Level 1, .NET web application development for an external client in Level 2, internet authoring mashup in Level 3, research applications in Level 4. Project work, guest lectures and research seminars involve key industry partners such as NCR and Yahoo!.
- They have the chance to take part in an industrial placement module between Level 3 and 4, giving our graduates the edge in the ever-competitive job market. Students have previously enjoyed placements in leading computer games companies such as Tag and Dynamo.

The scientific and mathematical skills you will learn as part of the computing science degree are becoming increasingly sought after in the current IT market. There is demand for computing science graduates in the games industry and the degree is also useful for graduates wanting to work in Silicon Valley and in the major online companies.

Our graduates have gone on to work for industry giants such as Microsoft and Yahoo! as well as the games industry, project management and the NHS.

teaching and assessment

You will be taught by specialists in computer science, computing, mathematics and philosophy. We are proud of our teaching approach which provides a strong user-based focus underpinned by theory.

You will be assessed by a combination of coursework and end-of-semester examination. Coursework is often highly practical, for example designing solutions, evaluating algorithms, writing programmes, constructing and testing software, analysing problems or presenting solutions to clients.

Students have 24-hour access to our award winning computing building with its unusual mixture of lab space and breakout areas. Here they can use a range of equipment such as servers, Macs, Arduino systems and programming kit for games consoles including the Nintendo Wii and Sony Playstation. Dundee is also home to one of only two Microsoft Surface tables in Scotland.

Our students also take part in the Yahoo! Hack Day, which challenges programmers to come up with fresh, creative ideas. Dundee was the first university to host a Yahoo! Hack Day and remains the only university to include this as part of the course work for students.

why did you choose to study at the university of dundee?

As soon as I walked onto the campus at Dundee, I knew instantly that this was the university I wanted to go to. The staff were so friendly, enthusiastic and helpful and the facilities were fantastic. I knew studying at this university for the next four years would be the best decision I could ever make. So far I don't regret a thing.

Louise Myles,
1st year student – BSc Computing Science

programme content • typical degree programme example

BSc Honours degree →

Advanced entry BSc Honours degree →

Level 1

- Computer Science - software development, data structures and algorithms, argumentation, problem solving
- Web authoring - understanding what the Internet can be used for, and developing websites.
- Mathematics - calculus, differential equations, algebra, geometry, and trigonometry

Level 2

- Computer Science - logic and artificial intelligence, C++, data structures, object-oriented design of software
- Computer systems - hardware architectures, Unix and concurrency
- Mathematics - calculus, algebra, linear algebra, statistics and discrete mathematics

After Level 2, students have the option of continuing with computing science at Levels 3 and 4, or of pursuing a degree in applied computing, or a degree in mathematics if they so choose.

Level 3

- Analysis of Data Structures and Algorithms
- Software Engineering, including agile methods
- Internet Programming
- Database Systems (multimedia and object databases plus data warehousing)
- GUI Programming
- Networks and Data Communications

Plus a choice of one of three specialist modules in mathematics:

- Graph Theory
- Scientific Computing
- Operations Research

Level 4

- 18 week Individual Project
- Comparative Programming Languages & Complexity Theory (core)

plus 2 modules from:

- Multimedia Audio
- Computer Vision
- Secure e-commerce
- Technology Innovation Management
- Computer Graphics

plus 4 from a set of Research Topics and Applications options such as: artificial intelligence, machine learning, signal processing, information theory and cryptography, constraint programming, multi-agent systems and computer vision

dentistry

minimum requirements

BDS

SQA Higher:	**AAAAB**
GCE A-Level:	**AAA**
ILC Higher:	**AAAAAA**
IB Diploma:	**37** points with 6, 6, 6 at HL
Essential subjects:	Biology and two from chemistry, physics or mathematics (H, A-L, ILC H at A, HL at 6) with the third of these subjects at SG at 2, Int2 at C, GCSE at B, Ord at B or SL at 5.

Graduates: A first class Honours degree, preferably in a life sciences subject.

Predental Year

SQA Higher:	**AAAAB**
GCE A-Level:	**AAA**
ILC Higher:	**AAAAAA**
IB Diploma:	**37** points with 6, 6, 6 at HL
Essential subjects:	No more than one science (H, A-L, ILC H, HL).

Admissions test: All applicants will be expected to undertake the UKCAT test before they apply.

degree programmes (with UCAS Codes)

Bachelor of Dental Surgery (BDS) Dentistry	A200
Bachelor of Dental Surgery (BDS) Predental Year Entry	A204

See **making your application** on page 32 and please visit our programme webpage for specific details on applying to dentistry.

professional accreditation

This programme is registrable with the professional governing body for dentistry in the UK, the General Dental Council (GDC).

> The Dental Outreach Programme has been the part of my course that I have most enjoyed. It provided a wealth of experience and really boosted my confidence in communication and time management.
>
> *Final year student comment from the National Student Survey 2011*

why study at dundee?

The BDS curriculum in Dundee will help you develop the necessary knowledge, skills and experience to graduate as a dental practitioner capable of maintaining the oral and dental health of the patients in your care. Not only will you develop clinical skills across the full range of dental disciplines, but you will also build the foundation of scientific knowledge on which clinical practice is based. In addition, you will appreciate the ethical and legal basis for dental practice, and acquire appropriate skills for communicating with your patients and helping them deal with what many find an anxious experience.

The dentist also works as part of the dental team and you will learn about the roles and responsibilities of all members of this team and work with them in the care of your patients. Staff in the Dental School are committed to your teaching and development as dental practitioners. The School is small enough for you to get to know the staff well and the care and support provided for our students is recognised as excellent. Dental knowledge and practice is ever-changing and developing and an important aim of the BDS curriculum is that you appreciate that your undergraduate learning is the first phase in a professional education that will continue throughout your career.

employability

Dundee's BDS is registrable with the General Dental Council (GDC) and a wide range of opportunities is available. Graduates normally complete a vocational or foundation training programme and can then choose to work as an associate partner or principal in general practice, in the community dental service, or in a hospital with a view to becoming a consultant. University teaching and research is another attractive avenue for the outstanding graduate. Dental surgeons can join the armed forces as commissioned officers. Several large companies employ their own dentists to provide dental treatment for their staff. A dentist, therefore, in addition to enjoying high community standing and an above-average income, has an excellent range of working environments.

teaching and assessment

The dental curriculum in Dundee is currently under review with a revised curriculum expected in September 2012. The precise details of this were not available at the time this prospectus was printed, but the following general principles will apply.

In order for you to gain sufficient knowledge and clinical experience, the BDS degree is a 5-year programme, with extended academic years from Year 2 onwards. A wide variety of teaching methods are used in the dental curriculum, reflecting the breadth of knowledge and skills you must develop as a dental student. These methods will include lectures, tutorials, practical classes and clinical skills classes. The Dental School also makes increasing use of 'My Dundee', the University's virtual learning environment, to support teaching. From Year 3 onwards, you will begin the clinical care of patients and a large proportion of your timetable will be dedicated to clinical sessions across the full range of dental disciplines.

Assessment in each year of the curriculum combines continuous assessment and an end-of-year examination. In addition, when you begin your clinical care of patients your clinical activity will be graded at each clinical session. This helps us identify students who may require extra support and put such help in place for them.

In addition, the Dental School is keen that you develop the attributes of a professional practitioner from the outset, therefore your professionalism will be monitored at every compulsory teaching and/or clinical activity throughout the curriculum.

special features

You will have the opportunity for a period of elective study between Years 4 and 5 of the course, when you can undertake a project in an area of dentistry of specific interest to you. Many students take this chance to travel overseas to gain experience of dental practice in environments very different to the UK, broadening both their educational and personal horizons. Some students take the opportunity to extend this experience by spending the first semester of Year 5 on an Erasmus exchange programme. The Dental School has agreements with dental schools in France, Germany, Denmark, Finland and Norway and this provides an excellent chance for you to experience both dental education in a different context and the cultural and social benefits of spending an extended period of time in another country.

Throughout the curriculum you will also spend a considerable amount of time in outreach centres, both local and distant from Dundee, set up to help improve access to dental care. Here you will treat a wide variety of patients in settings different to the Dental Hospital, broadening your clinical experience. This element of the curriculum is very popular with students.

The Dental School has a strong record of offering selected students the opportunity to undertake an Intercalated Bachelor of Medical Science (Honours) degree. This one-year programme, taken following Year 2 of the BDS, provides an opportunity for the in-depth study of one of a range of disciplines and will help you develop study and research skills useful to both your dental studies and your career opportunities beyond graduation.

special requirements

- All potential dental students are required to undergo screening for blood borne viruses (Hepatitis B and C, and HIV) prior to their place at the Dental School being confirmed. Details regarding testing will be sent to you when you apply.
- A full course of immunisation against Hepatitis B will be required.
- A Disclosure for Criminal Convictions will also be required. You are at liberty not to give permission for this but in that event we will be unable to process your application further.
- Sufficient bi-manual dexterity to handle simultaneously the necessary equipment to treat patients is required. Please consult the School as soon as possible if you have a disability that might impact on your ability to meet these demands.
- Sufficient English language proficiency to be capable of 'independent dental practice' (a requirement of the General Dental Council for registration as a dentist). This means being able – without assistance – to write or type prescriptions accurately, to understand written and spoken reports on patients and to communicate information to others by the same means.

programme content • typical degree programme example

The dental curriculum is under review, therefore, although all the content indicated below will be covered, how this is arranged across the years may be subject to change by 2013/14. Please visit our programme webpage for up-to-date information.

Year 1 *Pre- and Para-clinical dentistry:*
Focus is on biomedical sciences (anatomy, physiology and biochemistry), with the addition of the para-clinical dental sciences of oral biology, cell biology, microbiology, pathology and dental materials science.

You will also undertake a basic emergency care module and basic clinical infection control measures will be introduced in the Cleanliness Champion programme.

Year 2 *Pre- and Para-clinical dentistry:*
Focus is on the dental and para-clinical sciences.
You will complete the Cleanliness Champion programme.
You will also begin to develop your clinical skills, with introductory skills courses in periodontology and the management of dental caries.

At the end of Year 2, you will undertake the Introduction to Clinical Skills course. These skills will be assessed in a degree examination to ensure that you are ready to go on to provide dental care for patients in Year 3.

Year 3 *Clinical Dentistry:*
You will begin your clinical attachments in a range of dental disciplines within the Dental Hospital.

You will also study the theoretical background of these different disciplines and will continue to develop your skills with further clinical skills courses.

You will also study human disease. This teaching takes place at Ninewells Hospital and there is a separate degree examination in this subject.

Year 4 *Clinical Dentistry:*
You will continue your clinical attachments with the addition of further disciplines such as orthodontics, oral medicine and treatment of the dentally-anxious.

At the end of Year 4 you will have your first outreach attachments, at centres both local and distant from Dundee. You will also undertake your period of elective study.

Year 5 *Clinical Dentistry:*
Focus is on holistic patient care and you will have sessions in the Integrated Oral Care clinic in the Dental Hospital. You will also have attachments to a range of specialist consultant clinics. A significant proportion of your time will be spent in outreach clinics, both locally and at distant centres in Aberdeen and Inverness.

digital interaction design

minimum requirements

SQA Higher:	**BBBB**
GCE A-Level:	**BCC**
ILC Higher:	**BBBB**
IB Diploma:	**30** points
Essential subjects:	One or more from art & design (or other creative subject); product design; an appropriate technical subject (eg computing, information systems) plus an appropriate literate subject (H, A-L, ILC H, HL).

selection notes

We are keen to see examples of creative work (digital, photographic, product, hand made, hand-drawn etc.).

Applicants will be invited to attend an interview and visit to the course.

advanced entry (to Level 2)

SQA Advanced Higher:	**BB** + **BB** (H) in different subjects
GCE A-Level:	**ABB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	As above but at AH, A-L, HL.

other qualifications

Please see 'Art and Design' on page 138 for details.

degree programme (with UCAS Code)

BSc Digital Interaction Design WG24

See **making your application** on page 32.

> I was pretty blown away by the quality and sensitivity of the students' work.
>
> *Richard Banks, Interaction Designer at Microsoft Research*

why study at dundee?

Interaction design is an exciting blend of product design, graphic design, computing and user research, but is a rapidly growing discipline in its own right. Digital interaction design at Dundee is a pioneering course at undergraduate level, and highly respected internationally for its combination of people-centred design methods, good prototyping skills and design studio environment.

Digital interaction design at Dundee is all about being creative and sensitive to how digital technology will affect our everyday lives. This doesn't just mean computers – digital technology is almost everywhere, from mobile devices to domestic interiors, from intelligent clothing to telephone services. Digital companies from Apple to Orange employ interaction designers, as featured in the book '*Designing Interactions*' by Bill Moggridge.

So who studies digital interaction design? Our students are very diverse: some are technically minded, but also interested in design; others considered becoming other kinds of designers, but want to explore the future of our digital world.

Digital interaction design could be for you if you want to combine your creative and technical sides. This opens up careers in interaction design in the creative industries, but also gives you skills that could take you in other directions as well, such as user research or the digital economy.

Recent students' projects have included:

- a social networking app for charities to recruit volunteers
- a car dashboard using a smartphone for breakdown warnings
- a scarf with voice recognition for people who cannot speak clearly
- a touchscreen table for VJs in clubs.

Our students have access to hardware, software and the support of expert technicians for different purposes including: prototyping apps on mobile phones (e.g. Xcode), producing screen-based content and print-based artwork (e.g. Adobe Creative Studio), building interactive objects and exhibits (e.g. Arduino) and exploring data visualisation (e.g. Processing). Other facilities include woodworking and electronics workshops, video and sound editing, laser cutting and fabric printing.

employability

The skills you will gain as part of this degree are in high demand in today's digital world. At the end of the course you will be able to:

- prototype new interactions with digital technology
- understand how to involve users and clients in the design process
- use digital media to communicate your work
- present your work and the thinking behind it professionally

- work well in a team with people of different specialisms
- be ready to help to change digital culture and the digital economy.

Due to their adaptable skill-sets, our students go into many different careers, from setting up their own businesses to joining a design consultancy, or going on to Masters-level study or PhD research.

We are developing very strong links with world-leading companies locally and internationally. Microsoft Research has invited four of our students to present their work at their HQ outside Seattle.

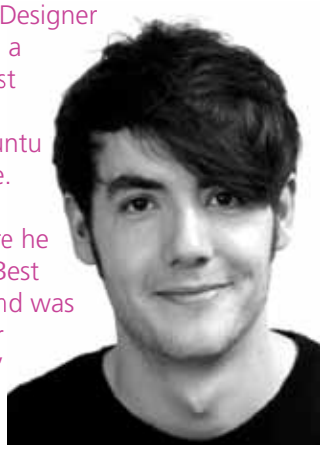
teaching and assessment

Key to our philosophy is an interdisciplinary approach to teaching and learning. Our students are taught predominantly in our own studios in Duncan of Jordanstone College of Art and Design (DJCAD), also taking broader design studies as well as technology labs supported by the School of Computing. Our multi-disciplinary teaching team includes interaction designers, product designers, illustrators, computer programmers and ethnographers.

You will be assessed with written work, blogs and reports, exams and class tests, but mainly practical coursework – which can include websites, prototypes, videos, and other digital media. This coursework is not just submitted but usually presented, sometimes to potential future employers.

what our graduates are doing

Calum Pringle graduated in 2010. After an internship at Orange Labs, and a spell as a freelance Interaction Designer in London, he gained a full-time in-house post at Canonical, the company behind Ubuntu open source software. He exhibited at New Designers 2010 where he was short-listed for 'Best Interaction Design' and was listed as a 'Rising Star of Interaction Design' by Design Week in October 2010.



programme content • typical degree programme example

BSc Honours degree →

Advanced entry BSc Honours degree →

Level 1

Introducing you to a range of practices and technologies that you will use as an interaction designer including:

> web design and physical computing
> video as a design research tool
> sketching, presentation & communication skills

Level 2

Deepening your thinking around graphical interfaces, user research and prototyping, for example:

> interaction design: user interfaces and information design
> software and programming
> design process: user interfaces and prototyping mobile apps

Level 3

Exploring interactions beyond screen-based interfaces, often with industry involvement, for example:

> creating interactive objects, exhibits, clothing, furniture or spaces
> interactive product design
> elective modules

Level 4

Devoted mainly to your own personal project, helping you to develop your own area of expertise and portfolio.

> major personal project
> optional dissertation/IT/ business project
> degree show exhibition

economic studies

minimum requirements

MA & BSc Honours

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL

MA Honours

Essential subjects:	None, but see entry requirements for other Joint Honours subject.

BSc Honours

Essential subjects:	A science or mathematics (H, A-L, ILC H, HL).

advanced entry (to Level 2)

MA & BSc Honours

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL

MA Honours

Essential subjects:	None, but see entry requirements for other Joint Honours subject.

BSc Honours

Essential subjects:	Economics or mathematics (AH, A-L, HL).

other qualifications

Please see 'Humanities/Economic Studies' on page 140 for details.

degree programmes (with UCAS Codes)

MA Degree Programmes

MA Business Economics with Marketing*	LN15
MA Economics*	L100
MA Financial Economics*	L114
MA Spatial Economics and Development	LK14
MA Business Economics with Marketing and...	
American Studies	TLN0
European Studies	LNR0
Geography	LLN0
History	LNV0
Mathematics	LNG0
Politics	L0N0
Psychology	LNC0
MA Economics and...	
European Studies	LR18
History	LV11
International Relations	LLD2
Politics	LL12

* Also available with French, German or Spanish please visit our programme webpage for UCAS codes.

BSc Degree Programmes

BSc Economics	L101
BSc Financial Economics	L111
BSc Business Economics with Marketing	L1N5
BSc Economics and…	
Applied Computing	GL41
Mathematics	GL11
BSc Financial Economics and…	
Applied Computing	GLK1
Mathematics	GLD1

See also degrees in:
MA/BSc International Business (page 104)
BSc Business Management (page 72)
BFin Finance (page 98)

See **making your application** on page 32.

why study at dundee?

Scotland was the birthplace of modern economics but the profession is now truly international. Our staff hold qualifications from major universities around the world, publish research in leading international journals and regularly present work at international conferences. So if you want to understand how the economy and the world of business and finance work then there is no better place to study than Dundee.

Our focus on applied economics research makes our modules closely linked to real problems in contemporary economies. This gives you an opportunity to develop a breadth of understanding relevant to your interests.

Dundee offers a flexible Honours programme in business, economics and finance enabling you to choose a combination of subjects that best suits your aptitudes and aspirations. You can choose to take either an MA if your interests and background lie mainly in the arts and social sciences or a BSc if you lean more towards mathematics, computing and the physical sciences.

If you want to train as an economist then the economics degree will provide you with all you need while offering the greatest flexibility in your future career choices. If, however, you decide on a career in business then you can choose the Business Economics with Marketing degree which focuses on the business environment. The third possibility is the Financial Economics degree for those attracted by the opportunities in the financial sector.

The skills you will acquire will provide you with an excellent foundation for your future life and career.

employability

A wide range of possibilities is open to you when you graduate in economic studies. Alongside your specific subject knowledge, your degree will provide you with a valuable range of skills that can be used in many different careers such as:

- selecting and analysing information
- solving both abstract and practical problems
- understanding and interpreting numerical and graphical data
- thinking logically and laterally
- communicating your ideas concisely.

In recent years our graduates have found employment in many walks of life. Some have decided to pursue careers as professional economists and have gone on to work for the UK Government Economic Service or the Scottish Government. Others have taken up careers in finance or in general management, working for banking multinationals, major consultancies and marketing departments.

To help students with their job search, we organise sessions on career prospects where potential employers are invited to talk to students about future opportunities.

teaching and assessment

Our approach introduces you to modern analytical and problem solving skills that are important to professional economists and the wider business community. In Levels 1 and 2 teaching is initially through a combination of lectures and tutorials, supplemented by workshops and computer laboratory sessions.

These continue in Levels 3 and 4 but you are also given the opportunity to prepare and deliver presentations, both individually and as members of a group. You may engage in case studies in which you research a company or topic in which you have an interest.

Coursework, in the form of essays, quizzes and group projects, plays an important role in assessment which, together with examinations, provides the basis for your final grade.

As part of their assessed coursework, the Honours year marketing research class carries out a number of marketing research studies on behalf of the Dundee University Students Association (the Students' Union). In the past the students have carried out surveys addressing issues such as perceptions of the regular club nights and weekend catering provision in the bar. In several cases the results of the survey have provided a significant input into revising the Union's offerings.

programme content • typical degree programme example

Please refer to the **degree structure and overview** pages for the **MA** (page 135) and **BSc** (page 134).

MA/BSc Honours degree →

Advanced entry MA/BSc Honours degree →

Level 1

> Global Economic Perspectives
> Foundations of Economic Analysis

plus 4 other modules

Level 2

> Microeconomics
> Macroeconomics and Economic Statistics

plus 4 other modules

Level 3

> Macroeconomic Analysis (core module)
> *plus for Economics:*
Microeconomic Analysis
Econometrics
plus 1 optional module
> *plus for Financial Economics:*
Microeconomic Analysis
Econometrics
Financial Institutions
> *plus for Business Economics with Marketing:*
Business Economic Analysis
Marketing
plus 1 optional module

Level 4

> *For Economics:*
Economic Theory
Economic Policy
plus 2 optional modules
> For Financial Economics:
Financial Economic Analysis
International Finance
plus 2 optional modules
> *For Business Economics with Marketing:*
Business Strategy
Marketing Research
plus 2 optional modules

Levels 3 and 4 Options

You may select Levels 3 and 4 options from the wide range of modules on offer in Economic Studies.

> Quantitative Methods for Business
> Financial Institutions
> Business Strategy
> Government and Business
> Dissertation
> Human Resources
> Econometrics
> International Finance
> Economic Policy
> Marketing
> Economic Theory
> Marketing Research
> Economics of Globalisation
> Risk and Information
> Financial Economic Analysis

You may also choose a foreign language as part of your degree or even select options from other disciplines.

education

minimum requirements

SQA Higher:	**ABBB**
GCE A-Level:	**BBC**
ILC Higher:	**ABBB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	English at B (H, ILC H, HL) or English language and literature at B (GCSE) plus mathematics (SG at 2, Int2 at B, GCSE at B, Ord at B, SL at 5).

other qualifications

Please see 'Education, Social Work and Community Education' on page 138 for details. The essential subjects given above are also still required.

selection notes:

1. Applicants under consideration will be invited to a selection process prior to offers being made. This allows us to assess whether you have the knowledge and suitability for primary teaching. It also gives you the opportunity to find out more about the course and its content. If your application reaches the selection process stage you will be given *Advice Notes for Candidates* which will allow you to prepare in advance.
2. Applicants are expected to demonstrate knowledge of, and commitment to teaching, usually through work experience in a school setting.
3. Applicants are also expected to be able to engage in drama, physical education, fieldwork and other physical aspects involved in the role of the teacher.
4. A check will be conducted through the Protecting Vulnerable Groups Scheme (Disclosure), with the permission of the applicant, prior to acceptance.

degree programme (with UCAS Code)

MA Education X120

See **making your application** on page 32.

professional accreditation

This programme is accredited by the General Teaching Council for Scotland (GTCS).

For information on professional development and distance learning programmes offered in this area, please visit www.dundee.ac.uk/prospectus/distance

why study at dundee?

In response to recent national recommendations and other developments in teacher education in Scotland our new MA (Hons) Education has been designed to offer an exciting, relevant and challenging programme. It is designed for students who want to teach in nursery or primary schools, teaching children in the 3-12 years age range. This new programme replaces the old traditional BEd Primary Education programme.

Teaching is a challenging and rewarding profession, requiring a variety of professional skills in communication, management and organisation. Teachers must be able to relate well to other people, exercise a considerable degree of understanding and patience, and rise to the physical, social and emotional demands that the job brings.

Nurturing a vibrant, dynamic, international and inter-disciplinary community is at the heart of what we do. Within the School of Education, Social Work and Community Education, the MA(Hons) Education programme draws upon modules from across the University as well as offering shared interactive learning with students preparing for careers in social work and community learning and development. This is excellent preparation for interprofessional collaboration later in your career as a teacher.

practical experience

We have significant periods of school experience in Levels 1, 3 and 4 of the programme. These school placements, which begin in your first year in university, will give you experience in a range of different settings including nursery schools. A strength of our programme is the opportunity to undertake a placement in a location other than a school. This might, for example, be in a local ranger service, a community learning and development project or indeed a placement abroad.

buddy system

We currently have a 'Buddy System' in which students from Level 2 team up with Level 1 groups to help them settle into the campus and the programme. We also provide a specially designed induction programme which allows you to get to know the University, the School and each other before classes begin in earnest.

employability

The number of students selected for Initial Teacher Education programmes in Scotland reflects anticipated national requirements, so employment prospects are good. Your employment prospects are increased further if you are willing to move out of your home area, to schools throughout Scotland and the rest of the UK. We work in partnership with Scottish Local Authorities and schools and our graduates are now working across the UK and even abroad.

The year following your graduation you will be given a guaranteed salaried induction post which enables you to develop further the skills, knowledge and understanding required for success in the classroom.

If you want to teach children with special needs, you have to qualify as a primary teacher first, then after some teaching experience you can study for an additional specialist qualification. Additional Support Needs and Inclusive Practice are, however, integral parts of our MA (Hons) Education programme.

teaching and assessment

The MA(Hons) Education leads to a qualification to teach children from age 3 to age 12, (from nursery to the end of primary school). There are four major elements to the programme:

- school experience
- subject-based academic electives
- core curriculum content modules
- curriculum based electives (Learning and Teaching)

The programme consists of 24 modules over 4 years. These are student-centred and contain workshops, lectures, seminars, tutorials, open-learning elements as well as practical experience in the classroom. The programme is delivered by university tutors who are experienced classroom teachers.

School experience is gained through blocks of time, (between one and six weeks) throughout the four years, in nursery and primary schools. In Level 2 you will have the opportunity to undertake a non-school based placement.

You will have the exciting opportunity to choose modules from other subjects within the University thus enabling you to both broaden and deepen your knowledge and understanding of key areas of the Primary Curriculum. You may choose to focus on mathematics, science, social subjects, or modern languages.

Alternatively you may wish to choose modules related to social work or community learning and development to enable you to have a deeper understanding of inter-agency working. In addition you will study in some depth, aspects of educational studies including the history and philosophy of education together with developmental psychology.

The core curriculum content modules cover all subjects that are required to be taught in Scottish primary schools: languages and literacy; mathematics and numeracy; social studies; science technologies; expressive arts; religious and moral education; health and wellbeing as well as pedagogical studies, which links together the practical and theoretical aspects of learning and teaching.

Curriculum-based electives provide an opportunity for students to create, from a range of offered subjects, their own choice of study. The electives help to develop a deeper understanding of learning and teaching approaches within the context of the eight areas of the Primary Curriculum:

- language
- mathematics
- social studies
- technologies
- sciences
- expressive arts
- health and wellbeing
- religious and moral education

programme content • typical degree programme example

MA(Hons) Education degree

Level 1

- Study in Higher Education
- Subject-based academic elective module
- Educational Studies
- Pedagogical Studies
- Core Curriculum Content Module
- Observation/School Experience

Level 2

- Subject-based academic elective module
- Educational Studies
- Core Curriculum Content Module (Languages)
- Learning from Life Placement
- Inter-agency Working Module
- Core Curriculum Content Module (Mathematics)

Level 3

- Curriculum-based Elective (choice can be made from the eight aspects of the Curriculum for Excellence)
- Educational Studies
- Pedagogical Studies
- Nursery/Early Years School Experience

Level 4

- Curriculum-based Elective (choice can be made from the eight aspects of the Curriculum for Excellence)
- Thesis
- Pedagogical Studies
- School Experience (choice of any primary stage).

Notes The MA(Hons) is a demanding programme in terms of time and effort, involving in-university work and placements, normally over a thirty-week academic year. In addition to classroom-based work, you will be expected to participate fully in drama, physical education and fieldwork, which is sometimes residential. Successful MA(Hons) Education students are well-rounded, enthusiastic individuals who care about the individuals they work with, both children and adults. To be successful on this programme it is expected that you will have particular strengths in mathematics, reading and writing as these are key elements of a teacher's job. You should also be able to lead and support physical education and fieldwork.

electronic & electrical engineering

minimum requirements

SQA Higher:	**AAAB**
GCE A-Level:	**ABB**
ILC Higher:	**AAAB**
IB Diploma:	**32** points with 6, 5, 5 at HL
Essential subjects:	Mathematics and a science or engineering subject (physics for MEng) (H, A-L, ILC H, HL).

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **AB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Mathematics and a science or engineering subject (physics for MEng) (AH, A-L, HL).

other qualifications

Please see 'Engineering, Physics and Mathematics' on page 140 for details.

degree programmes (with UCAS Codes)

BEng

Electronic & Electrical Engineering	H600
Electronic Engineering and Physics	HF63

MEng

Electronic & Electrical Engineering	H601
Electronic Engineering & Physics	FH36

See **making your application** on page 32.

professional accreditation

All our Electronic and Electrical Engineering programmes are accredited to BEng (Honours) level by the Institution of Engineering and Technology (IET).

why study at dundee?

Electronics in recent years has literally transformed the world. Electronic engineers are developing smarter, faster devices and information processing systems of amazing complexity. Current research is focused on novel nanometer-scale devices which copy the functionality of the human brain and allow the construction of advanced communication networks that cover the globe.

At Dundee our degrees emphasise real-life engineering practice and research methodology through extensive practical projects chosen to match your career objectives.

Our staff have a strong electronics research presence in key technology fields such as renewable energy, biomedical engineering, nano-electronics and laser/wireless communications, and they have contributed much to the advancement of engineering on the international stage. You will have the opportunity to get involved with our research projects as part of the Undergraduate Research Club from Level 1 onwards.

We offer a range of degrees which cover virtually every aspect of electronic and electrical engineering that you will encounter in a professional career. The emphasis is on electronic engineering, with electrical engineering options available if desired. The degree programmes are flexible, making it possible for you to swap between programmes up to the end of Level 2 as new interests develop and it becomes clearer to you what sort of professional career you intend to follow.

Our Honours degrees are accredited to BEng level by the Institution of Engineering and Technology (IET) which means that the IET has checked and approved the standards of the teaching, the assessment, the laboratories and the staff. When you have graduated and commenced your career, an accredited Honours degree is the first requirement for gaining professional registration with the Engineering Council as a Chartered Engineer (CEng). The 'integrated Masters' MEng programme takes one year longer than the BEng programme because it provides more experience of the world of industry relevant to future employment as a professional engineer.

employability

The electronic engineering industry is one of the largest in the world and offers a wide variety of employment opportunities. It is a major high technology industry in the UK with a significant demand for graduates with specialist skills. Furthermore, our graduates can work confidently in any career in which a sound ability in mathematics, computing or administrative organisation is required, on top of their skills in electronic and electrical engineering.

So apart from the mainstream commercial activities of circuit and systems design, of semiconductors and communications, we also see our graduates taking up careers in financial management, broadcasting, with the civil service, and with the police and armed services. You will find that a Dundee engineering degree opens the door to a surprisingly wide range of career opportunities.

teaching and assessment

Our teaching uses enhanced resources in the form of state-of-the-art laboratories and expertise in semiconductor devices, microelectronics, micro engineering, computer aided electronic circuit design, optoelectronics and analytical electron microscopy.

Most teaching takes place in small groups with easy access to staff and a personal approach to lectures, tutorials, and practical work. Guidance is available to you throughout your programme of study to ensure that you make good progress.

A variety of assessment methods is used, so in some cases we will ask you to submit coursework and laboratory reports, in others you will take examinations, and sometimes we will simply ask you to discuss what you have achieved.

All BEng students undertake a research project in their final year of study under the supervision of a member of staff. Previous projects have included:

- an interactive image system for the diagnosis of sight defects in children
- robot automation of NCR ATM reliability tests
- GUI for camera control
- regenerative vehicle braking systems.

Your final degree award will depend mainly on your achievements during the later levels of study. For the BEng Honours degrees the final award includes a 25% carry-forward from Level 3. For the MEng Honours degrees, there is a 15% carry-forward from Level 4.

programme content • typical degree programme example

BEng Honours degree (4 years) →
MEng Honours degree (5 years) →
Advanced entry BEng Honours degree (3 years) →
Advanced entry MEng Honours degree (4 years) →

Level 1

- Electricity, Optics and Waves
- Electronic/Electrical Engineering project
- Engineering Mathematics
- Mechanics and Thermodynamics
- Professional Studies

Level 2

- Analogue & Digital Electronic Systems
- Electrical & Mechanical Systems
- Engineering Design & Communications
- Engineering Mathematics
- Engineering Software
- Fundamentals of Electronic Devices

Level 3

- Analogue Electronic Systems
- Communication Skills
- Computer Engineering/Power Engineering**
- Control Engineering
- Digital Electronic Systems
- Mathematical Methods
- Microelectronics
- Solid State Physics
- Telecommunications

Level 4

- Advanced Materials
- CMOS Microelectronics
- Communications
- Computer Engineering/Power Engineering**
- Control Engineering
- Image Systems
- Nanotechnology
- Operations Management
- Robotics
- Individual Research Project

Level 5 (MEng only)

- Advanced Electronic Engineering topics
- Financial Management
- Professional Studies
- Major Group Project

** Options for students wishing to specialise in Power Engineering

what our graduates are doing

Heather MacNeill and Alistair Martin both graduated from the BEng (Hons) Electronic and Electrical Engineering programme in 2010.

Heather is working as a graduate hardware engineer with American Dynamics, and Alistair is working for a world wide defence electronics company on their graduate development programme.

english/film studies

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	English/English Literature (H, A-L, ILC H, HL).

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	English/English Literature (AH, A-L, HL).

other qualifications

Please see 'Humanities/Economic Studies' on page 140 for details.

degree programmes (with UCAS Codes)

MA English	Q300
MA English and...	
American Studies	QT37
Creative Writing	QW38
European Studies	QR38
History	QV31
Mathematics	GQ13
Philosophy	QV35
Politics	LQ23
Psychology	CQ83
MA English with...	
French	Q3R1
German	Q3R2
Spanish	Q3R4
MA Film Studies and...	
English	QW36
Philosophy	VP53

See **making your application** on page 32.

In the 2011 National Student Survey 95% of our students said they were satisfied with the quality of the course.

why study at dundee?

We are a medium-sized team with an atmosphere of friendly informality. We work hard to make students feel at home so they achieve their very best. Dundee is both traditional and innovative. We develop our courses with a consciousness of today's student needs and preferences, while reflecting our commitment to the cutting-edge ideas in our field.

Exciting new developments include the introduction of a new joint Honours degree in English and creative writing and the growth of film studies, with two joint Honours degrees possible. We also offer modules in comics and graphic novels.

Kirsty Gunn is our Professor of Creative Writing and is an award-winning novelist who teaches at undergraduate and postgraduate levels, as well as organising readings by visiting novelists and poets.

The film studies team has strong links with the Dundee Contemporary Arts Centre, Dundee's unique cinema and art gallery, and helps organise film programmes which bring together students and the general community.

The JOOT Theatre Company is a drama group which specialises in medieval and early modern theatre. The company is largely comprised of current English students and was invited to perform at the Sorbonne in Paris in 2008.

English also offers Erasmus exchanges with three European Universities: Salzburg, Freiburg and Thessaloniki. We are currently building links with several other institutions.

If you enjoy reading and writing, want to develop skills in independent and imaginative critical thinking and have a lively interest in culture and creativity, then English at Dundee is for you.

employability

English is an adaptable subject, opening a flexible range of career options. Employers are often drawn to English graduates as they possess good written and spoken communication skills and a broad understanding of the world. They have also received rigorous training in working independently and thinking critically. Indeed, statistics show that students of English are often better at securing 'graduate-level' posts than comparable humanities graduates.

Teaching is a regular occupational choice of our graduates but by no means their only available career path! Many enter general management, consultancy, the civil service, as well as research, journalism, library and information science, publishing and, increasingly, creative industries, especially the media. In fact, our graduates find themselves prepared for a wide variety of occupations.

teaching and assessment

Our methods aim to be both lively and innovative Consequently, English has received the highest ratings for Teaching Quality Assessment. We employ a wide range of methods, from lectures and film screenings to small group teaching. Most modules are assessed by tailored combinations of coursework and formal examinations, but students encounter a great variety of assessment approaches.

Coursework can consist of essays, oral presentations, weekly journals, or a number of other possibilities. The formal examinations are two or three hours long.

Several of our courses make no use of a formal exam; no course is assessed by formal examination alone. The weightings given to examinations and coursework vary from course to course.

We also encourage intellectual and presentational skills which will be of real use in later life. It has been said that English aims to help students 'develop the insight of an artist, the analytical precision of a scientist and the persuasiveness of a lawyer.' We agree.

programme content • typical degree programme example

Please refer to the **MA degree structure and overview** on page 135.

MA Honours degree →

Advanced entry MA Honours degree →

English

Level 1

A total of 6 modules, including:

- Introduction to Literary Study
- Early Modern to Early Romantic Literature 1564-1789

Level 2

A total of 6 modules, including:

- Romantic to Victorian Literature 1789-1901
- Modernist to Contemporary Literature, 1901 to Present

Level 3

A total of 4 modules (2 modules for joint Honours), chosen from:

- American Literature
- Contemporary Literature
- Introduction to Creative Writing Practice
- Medieval Literature
- Modernism & Modernity
- Other Americas: Contemporary Multi-Ethnic Fiction
- Post-Colonial Texts
- Romantic & Gothic Literature 1760-1830
- Shakespeare
- Victorian Literature
- Vision in Film, Literature and Culture
- Writing as Making: Poetics & Creativity

Level 4

A total of 4 modules (2 modules for joint Honours), chosen from:

- American Modernist Poetry
- Contemporary British Writers of Comics and Graphic Novels
- Crime and Detection in American Fiction
- Dissertation
- H.G. Wells, Science Fiction and Film
- History of the Book
- Image, Text and Performance
- Literature of the Twentieth-Century Scottish Renaissance
- Making Writing Matter
- Medievalism at the Movies
- Novels of Virginia Woolf
- Old English Literature
- Re-imagining Britain: Literature after the End of the Empire
- The Literature of Terror: British & American Gothic Writing
- Writing Scepticism

Film studies modules

Level 1

- Reading the Screen: An Introduction to Film Studies
- Perspectives and Movements in Cinema

Level 2

- Classical Hollywood: An Excessively Obvious Cinema
- Film Noir: The Dark Side of the Street

Level 3

- European Cinema since 1960
- Film Art
- Vision in Film, Literature and Culture

Level 4

- Epics, Exile and Nostalgia: The Films of Kurosawa, Powell and Tarkovsky
- H.G. Wells, Science Fiction and Film
- Medievalism at the Movies
- Image, Text, Performance

Please visit our programme webpage for information on the English and Creative Writing joint Honours programme.

environmental science

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	Biology or chemistry or physics (H, A-L, ILC H, HL).

advanced entry (to Level 2)

SQA Advanced Higher:	**AB + BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Biology or chemistry or physics (AH, A-L, HL).

other qualifications

Please see 'The Environment' on page 140 for details.

degree programmes (with UCAS Codes)

BSc Environmental Science	F750
BSc Environmental Science and Geography	LF77
MA Environmental Science and Geography	FL77

See **making your application** on page 32.

> The staff are particularly enthusiastic about the material they teach and are always willing to focus further attention on any areas of difficulty.
>
> *Final year student comment from the National Student Survey.*

In the 2011 National Student Survey, Environmental Science and Physical Geography at Dundee are ranked top in the UK with 97% student satisfaction with the quality of the course.

why study at dundee?

Growing pressures on scarce resources and concern over the effects of climate change mean there has never been a better time to be an environmental science professional.

Our programme is interdisciplinary with teaching staff drawn from a wide range of academic areas. This means that you will benefit from exposure to methods, facilities and research agendas that span the environment – from life sciences including chemistry and biology, through hydrology, remote sensing, geology, geomorphology, oceanography and physics, to environmental planning and management. The programme prioritises a sound scientific understanding as an essential requirement for debating topical environmental issues. The degree structure is flexible, allowing students to gain a systematic foundation before specialising in specific areas of environmental science. This provides a firm and rigorous foundation for your career in the environment.

You will enjoy fieldwork at all four levels of study, embedded into each stage of our programme. This includes an overseas field trip to south-east Spain in Level 3, and day trips to the rich variety of stunning environments easily accessible from Dundee, from the Firth of Tay to the Cairngorms and beyond.

We have strong links to employers nationally, reflected by research and consultancy work undertaken by teaching staff and by the rising numbers of direct approaches we receive for graduates, including opportunities for work experience and summer placements. Guest lecturers from environmental employers address key environmental issues throughout the programme.

Application has been made for professional accreditation for the environmental science degree from the Institute of Environmental Sciences. This will further develop the already excellent links between our courses and employment opportunities.

Our staff operate an open-door policy for all students who are encouraged to approach staff as and when they wish for help and support.

employability

As a graduate in environmental science you will have high employment prospects. You will have a solid scientific base knowledge together with valuable interpretative skills much sought by prospective employers in many fields such as environmental protection, environmental consultancy and the water industry.

Our focus on skills emphasises both transferable skills (e.g. in numerical problem-solving, communication and team working) and discipline-specific skills (e.g. flood risk assessment using industry-standard hydrological models) which are endorsed by employers as relevant to the needs of the employment marketplace.

Staff have especially strong working relationships with the UK environmental regulatory agencies. Typical examples of recent graduate destinations include the Scottish Environment Protection Agency, consultants (e.g. Enviros, MWH, Environmental Resources Management, W A Fairhurst) and local authorities.

teaching and assessment

We believe that students progress most effectively through a stimulating and diverse range of teaching methods, including active participation in laboratory and computing practical classes, seminars, small group discussions, fieldwork, guided independent study, coursework and lectures.

The programme is designed to build your knowledge and understanding successively at each level of a four year degree, developing both transferable skills in information technology and communication and subject specific skills in laboratory analysis, remote sensing and site investigation. Great emphasis is placed on learning through fieldwork, both independently and in group work. Throughout Level 1 special study skills sessions are provided to support the transition to independent study which underpins most university learning.

Assessment is through a combination of coursework, comprising all laboratory and fieldwork reports, class tests, essays and verbal presentations, and end-of-year examinations. Coursework counts for 75% of the overall assessment at Level 1, 50% at Level 2 and between 50% and 100% of the modules at Levels 3 and 4.

what our graduates say

The broad range of subjects covered in my degree gave me an ideal foundation for working in the geo-environmental sector. Transferable skills integrated into the course such as IT, problem solving, numeracy and report writing provide the skills base needed for any graduate job.

Quote from a recent BSc Environmental Science graduate

programme content • typical degree programme example

Please refer to the **degree structure and overview** pages for the **MA** (page 135) and **BSc** (page 134).

MA/BSc Honours degree →

Advanced entry MA/BSc Honours degree →

Level 1

- The Physical Environment
- Environments For Life

Topics covered include Geology, Physical Geography, Hydrology, Environmental Physics, Environmental Chemistry, Weather, Climate and Environmental Biology

plus 4 other modules including at least 2 appropriate science-based modules for BSc degrees

Level 2

- Management and Monitoring (Geoscience, Remote Sensing and Environmental Resource Management)
- Mechanisms and Measurements (Aquatic Science, Ecology and Chemistry)

plus 4 other modules, including at least 2 appropriate science-based modules for BSc degrees; one of these will be chemistry for Advanced Entry to Level 2 for students who do not have a good pass at Higher or A-Level in chemistry (or an equivalent qualification)

Level 3

- Reconstructing Past Environments
- Research Methods and Field Skills (includes overseas field course)

plus 2 modules from a range of available modules

Level 4

- Dissertation
- Catchment Sediment Dynamics
- Coastal and Estuarine Geoscience
- Migration and Ethnicity
- Environmental Resource Management
- Geographical Information Systems
- Glacial Processes and Environments
- Hydrology and Water Resources
- Water Hazards and Risk

Single BSc students take the Research Project Module + 3 other modules

Joint BSc or MA students take 2 modules

environmental sustainability

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None, but see entry requirements for Joint Honours subject.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	None, but see entry requirements for Joint Honours subject.

other qualifications

Please see 'The Environment' on page 140 for details.

degree programmes (with UCAS Codes)

MA Environmental Sustainability	F751
MA Environmental Sustainability and International Business	NF17
MA Environmental Sustainability and Geography	FL7R

See **making your application on** page 32.

professional accreditation

Our MA in Environmental Sustainability is accredited by the professional body the Institute of Environmental Management and Assessment (IEMA) which means that all students who attain a lower second class degree or better are eligible for Associate Membership of IEMA.

> **This is an excellent, professionally run course that in many places exceeds IEMA's requirements in scope and depth.**
>
> *Comment made by an IEMA Assessor during our annual assessment*

why study at dundee?

Environmental sustainability is a diverse and dynamic subject examining the interaction between people and their surroundings. The MA in Environmental Sustainability is concerned with the use of natural resources and the attainment of more sustainable lifestyles whilst protecting critical natural capital.

Dundee is uniquely located for the study of environmental sustainability. It has easy access to estuarine, maritime and a range of terrestrial environments. Its urban and industrial heritage, the fertile agricultural hinterland and the backdrop of hills and mountains afford a vibrant and varied 'laboratory' in which to study.

With the increasing emphasis on the 'green agenda' in all aspects of daily life, understanding the environment has never been more important. Global warming, biodiversity and renewable energy are just a few of the recurring themes we hear on the news. Public agencies are now looking for graduates with the ability to deliver sustainable outcomes, while businesses, large and small, are seeking graduates with substantial environmental expertise.

This exciting degree programme means you no longer need to wait until you have graduated to turn your academic interests into such practical environmental skills. You can instead draw on two highly-rated disciplines to give you both the management and administrative skills to inform environmental policy and the scientific and technical knowledge to deliver a more sustainable environment.

If you want to tackle pollution, to ensure that new developments enhance rather than detract from their surroundings, to offer communities the chance to have a real say in how people use their natural resources, in short to have a real impact on the future of our earth, then this is the degree for you.

employability

Graduates from the programme are employed in a wide variety of jobs:

- preparing national policy and legislative guidance on environmental protection
- assisting local authorities with sustainable development strategies, waste strategy implementation and other environmental policies
- working as environmental consultants in specialist areas such as atmospheric or water pollution
- working in large corporations as environmental sustainability personnel or corporate social responsibility managers
- acting as countryside rangers.

Whilst many of our graduates have helped shape environmental policy and regulation at local and national levels, one recent graduate has worked at European Union level, drafting pollution control regulations in Brussels while on secondment from the Scottish Environment Protection Agency.

teaching and assessment

The degree programme is taught by experienced town planners and geographers. We use a variety of teaching methods including lectures, tutorials, seminars, lab work and group instruction for skills development.

Through a range of practical coursework, you will have the chance to develop your skills in communication, report writing, presentation, policy analysis and evaluation, problem solving, decision making, IT, and team work.

As progress is made through the programme students have an increasing opportunity to specialise in subjects of their choice.

what our graduates are doing

Jill McMaster graduated in 2006 with an MA Environmental Sustainability. She is now a Facilities Management Assistant (Energy), for Perth & Kinross Council. She says, "the degree programme provided me with an array of useful skills and knowledge of the 'real world', from preparing presentations to writing briefing notes and understanding sustainable development principles for all aspects of resource management."

Keir McAndrew graduated in 1999. He now works for the European Commission in Brussels on EU law concerning industrial emissions. He says, "the course contained a large element of personal development, focusing on the skills that are required in the workplace – project and time management, presentation skills, research skills – all of which have proven to be very helpful in my career. The other great thing about my course was the people I studied with who all had a real commitment to environmental matters and a desire to learn."

programme content • typical degree programme example

Please refer to the **MA degree structure and overview** on page 135.

MA Honours degree →

Advanced entry MA Honours degree →

Level 1

- Sustainable Development and the Environment
- Countryside Planning and Management
- The Physical Environment
- Environments for Life

plus 2 other modules

Level 2

- Management in the Built and Natural Environment
- Introduction to Environmental Law
- Management and Monitoring
- Mechanisms and Measurements

plus 2 other modules

Level 3

- Business, Law and Environment
- Environmental Assessment
- Geographical Methods

plus 1 other module

Level 4

- Environmental Resource Management
- Dissertation

plus 2 options from:

- Climate Change
- Community Governance
- Geographic Information Systems
- Coastal and Estuarine Geoscience
- Hydrology and Water Resources

Please visit the programme webpage for more information on programme progression.

european studies

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None, but see entry requirements for Joint Honours subject.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	None, but see entry requirements for Joint Honours subject.

other qualifications

Please see 'Humanities/Economic Studies' on page 140 for details.

degree programmes (with UCAS Codes)

MA European Studies and...

Business Economics with Marketing	LNR0
Economics	LR18
English	QR38
European Languages & Culture	RR89
Geography	LR78
History	RV81
International Relations	LR28
Philosophy	RV85
Psychology	CR88

See **making your application** on page 32.

why study at dundee?

Here at Dundee, we have a long and well-established reputation in teaching European studies. Our degree programme has many distinctive features:

- We have been commended for our strongly interdisciplinary approach. During your studies, you will have opportunities to combine perspectives from economists, geographers, historians, lawyers, linguists, philosophers, cultural study specialists, as well as political analysts.
- We will give you the historical background, but you will also look at issues that matter in Europe now, such as integration, migration, cultural identity, economic policy and governance.
- The focus of our core courses is Europe-wide, including Russia and the wide range of optional modules allows you to specialise.
- You can choose from a wide range of additional modules from within the School of Humanities and the College of Arts and Social Sciences.
- You can combine your joint Honours European Studies degree with the study of French, German or Spanish should you wish to do so. (A range of other languages are also available as additional modules.)
- The new joint Honours programme with European Languages and Culture allows you to study 2 languages from French, German or Spanish.
- As a European Studies student, you will be particularly encouraged to go on an Erasmus exchange to one of our partner universities in Europe.

employability

As a European Studies graduate, you will have gained a range of transferable skills during your studies, including skills in research, written and oral presentation, and intercultural mediation skills.

Our graduates work in a range of areas including education, archives, politics, government services, journalism, non-governmental organisations (NGOs), with some starting their own business.

teaching and assessment

The teaching and assessment methods vary between levels.

Initially the teaching is mainly done in lectures, where we will introduce a topic to you. After carrying out your own research, you will discuss the lectures and your own findings in tutorials.

As you deepen your understanding, the focus moves to seminars in which you will play a leading part by introducing your own research. At all stages we encourage teamwork in small groups.

At all levels exam and continuous assessment marks are combined to arrive at your final grade. For continuous assessment at Levels 1 and 2, you usually write essays on topics chosen by your tutor, but by the time you are in Levels 3 and 4 you will often tackle projects and presentations on subjects of your own choice.

what our graduates say

"Studying European Studies gave me an in-depth insight into the transnational organisation. I have learnt how the EU operates and why it is fundamental for the world in the future. Accompanied by my year abroad, that has boosted my language confidence immensely and it has given me a solid basis for my future."

Anna Rozewska, from Poland, graduated in 2010 with MA (Hons) European Studies and Economics

what's so good about european studies at dundee?

"You are studying in a truly multicultural environment – both students and lecturers come from various countries, representing different cultures, with their personal insights and experiences, which made the learning process a lot more interesting."

Ilze Plavgo, graduated in 2009 with MA (Hons) European Studies and International Relations

what our graduates say

"The option of studying European Studies with a language was a great opportunity. I found the cultural aspect of European studies really interesting so I decided to go to Grenoble in France on an Erasmus exchange in 3rd year. Even though I will admit that it was one of the hardest things I have ever done I am so glad I went and I have taken away so many insights and good memories, it was more than worth it."

Judith Kahl, from Germany graduated in 2011 with MA (Hons) European Studies with French and is now studying MLitt Continental Philosophy

programme content • typical degree programme example

Please refer to the **MA degree structure and overview** on page 135.

MA Honours degree →

Advanced entry MA Honours degree →

European Studies (with a foreign language)

Level 1

A total of 6 modules, including:

- The Globalising World (core module)
- Two Level 1 modules in *Practical French or German or Spanish
- One Level 1 core module in your other joint Honours subject

*Please note: There are two languages streams in French and Spanish: one for those with a Higher or an A-Level; the other for complete or near beginners. In German there is only one stream for those with a Higher or A-Level.

Level 2

A total of 6 modules, including:

- Contemporary Challenges for Europe (core module)
- Two Level 2 modules in *Practical French or German or Spanish
- One Level 2 core module in your other joint Honours subject

*Please note: There are two languages streams in French and Spanish, depending on your qualifications/ experience on entry.

Level 3

A total of 4 modules, including:

- European Union Politics (core module)
- Core module(s) in your other joint Honours subject
- French 3: Language and Culture in Context
- or German 3: Language and Culture in Context
- or Spanish 3: Language and Culture in Context
- One optional module from the European studies approved list

Please note: Alternatively, the whole or part of Level 3 can be spent studying at a partner university in France, Germany or Spain

Level 4

A total of 4 modules, including:

- Dissertation (on topic of your choice in European studies)
- Core module(s) in your other joint Honours subject
- French 4: Language and Culture in Context
- or German 4: Language and Culture in Context
- or Spanish 4: Language and Culture in Context
- One optional module from the European studies approved list

Please visit the programme webpage for information on studying European studies without a foreign language or for the joint Honours programme with European Languages and Culture (taking 2 languages from French, German or Spanish).

finance

minimum requirements

SQA Higher:	**ABBB**
GCE A-Level:	**BBB**
ILC Higher:	**ABBB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	English and mathematics (SG at 2, Int2 at C, GCSE at B, Ord at B, SL at 5).

advanced entry (to Level 2)

SQA Advanced Higher:	**BBB**
GCE A-Level:	**BBB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	Mathematics, economics and accounting (AH, A-L, HL) and English (SG at 2, Int2 at C, GCSE at B, Ord at B, SL at 5).

other qualifications

Please see 'Accountancy' on page 138 for details.

degree programmes (with UCAS Codes)

Bachelor of Finance (BFin)	N300
Bachelor of International Finance (BIFin)	N390

See **making your application** on page 32.

professional accreditation

The BFin is an accredited degree and allows exemptions from professional examinations from the following bodies: ACCA, CIMA and AIA.

why study at dundee?

At Dundee we aim to help you develop the skills and techniques needed for a variety of exciting careers in finance. The term finance is normally used to refer to the management of money and a major part of modern finance study involves examining the way in which large corporations use their funds to generate income and wealth in the future. The programme emphasises the role played by capital markets both in the UK and overseas in this wealth creation process and highlights their importance in the global economy.

Where the BFin (Bachelor of Finance) addresses financial issues relating to UK and Irish companies, the BIFin (Bachelor of International Finance) will provide you with the necessary analytical skills to understand the environment within which multinational firms operate. It will also enable you to understand how these firms select, assess and finance their projects internationally and provide you with a foundation to appreciate how financial risks are managed by international firms. We aim to show you how vital the financial sector is in the UK and overseas. We will show you all aspects of the financing process from the raising of funds by companies through to the complex operation of, and links between, different capital markets.

Students studying finance are taught by staff who have either practical experience working in the financial sector or who have gained insights into financial practices through research of analysts, company directors and market traders. These insights from practice help inform the teaching of finance at Dundee and are reinforced by student visits to the financial centres of both London and Edinburgh.

employability

The BFin and BIFin can enhance your employability by developing your numeracy and analytical abilities, enhancing your IT skills and improving your interpersonal and communication skills. Many students go on to work in the financial services sector either as analysts, fund managers or on the trading floors of investment banks. A large number take professional examinations such as those of the Chartered Institute of Bankers in Scotland or the Chartered Financial Analyst Association.

The BFin and the BIFin degrees act as an excellent stepping stone into both of these professions, but also cover much of the material required for a number of other professional financial qualifications, including the professional accountancy bodies.

In addition, a number of visiting guest speakers, drawn from practice, are invited to talk about the investment trust sector specifically and the fund management industry in general.

teaching and assessment

All students studying for the BFin and the BIFin degrees take a common set of modules in Levels 1 and 2.

Our programmes are delivered using a variety of lectures, seminars, workshops, tutorials, projects and hands-on computer labs. Assessment is by a mixture of coursework (for example an essay), computer labs, projects based on group assignments and exams.

The weightings allocated to assessed coursework and the final examination vary from module to module. Typically 80% is allocated to the final exam but this is less in some modules and more in others.

In Level 1 and 2 of the BFin and the BIFin, three subjects are delivered per semester, each having approximately 5 hours of classes. Consequently, there is approximately 15 hours of contact time from Monday to Friday of each week. We expect students to undertake an additional 20 hours of individual study per week to prepare for classes and revise material covered in lectures or tutorials.

what's so good about finance at dundee?

The programmes were developed after discussions with employers and are tailored to the theoretical and practical issues most relevant to the modern financial environment.

what our graduates are doing

Gareth Gettinby graduated from BFin Finance in 2000. He has been working as a Research Analyst on the strategy team at Standard Life. He says: "The BFin degree gave me a great foundation to the investment exams that I have successfully undertaken, for example the Investment Management Certificate (IMC). Overall the course is great! It covers such a diversity and range of topics that will equip any student wishing to pursue a career in investments."

programme content • typical degree programme example

BFin/BIFin Honours degree →

Advanced entry BFin/BIFin Honours degree →

Level 1

- Introductory Financial Accounting
- Introductory Management Accounting
- Statistics
- Information Systems
- Global Economic Perspectives
- Foundations of Economic Analysis

Level 2

- Intermediate Financial Accounting
- Intermediate Financial Management
- Financial Decision Analysis
- Microeconomics
- Macroeconomics and Economic Statistics
- Management and Information Systems

Level 3

- Microeconomic Analysis
- Advanced Financial Management
- International Capital Markets
- Taxation
- Econometrics (BFin)

or

- Macroeconomic Analysis (BIFin)

Level 4

- Financial Management Theory
- Financial Economic Analysis (BFin)

or

- International Finance (BIFin)
- plus three Level 4 modules

Level 4 Options

Advanced Financial Accounting
Advanced Management & Information Systems
Business Strategy
Economics of the European Union
Financial Institutions
Financial Statement Analysis
Fiscal Studies
Government and Business
Human Resources
Regional Economics
Risk and Information
Security Analysis & Portfolio Management
Social & Environmental Accounting & Reporting
Macroeconomic Analysis (BFin only)
Marketing (BFin only)
Strategy and Marketing (BFin only)
Business Decisions (BIFin only)
Econometrics (BIFin only)
Economics of Globalisation (BIFin only)
Financial Economic Analysis (BIFin only)

geography

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None for MA, but see entry requirements for Joint Honours subject; a Science (H, A-L, ILC H, HL) for BSc.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Geography (AH, A-L, HL) for MA; geography and biology or chemistry (AH, A-L, HL) for BSc.

other qualifications

Please see 'The Environment' on page 140 for details.

degree programmes (with UCAS Codes)

MA Geography	L700
MA Geopolitics	L246
MA Geography and...	
American Studies	LT77
Business Economics with Marketing	LLN0
Environmental Science	FL77
European Studies	LR78
History	LV71
Planning	LK74
Politics	LL72
Psychology	CL87
MA Geography with...	
French	L7R1
German	L7R2
Spanish	L7R4
BSc Geography	F800
BSc Geography and Environmental Science	LF77

See **making your application** on page 32.

Geography at Dundee was ranked Top in Scotland for student satisfaction in the National Student Survey 2011. 95% of our students were satisfied with the teaching on their course.

why study at dundee?

Geography at Dundee will provide you with the opportunity to examine some of the most exciting and challenging questions concerning the world's human and physical environments. You will explore issues which range from global concerns, such as climate change or the relationships between the developed and developing worlds, to more local matters such as flooding and urban regeneration.

As a geographer at Dundee you will learn how to apply your knowledge in order to analyse and solve a wide range of environmental, social and regional problems. You will be taught by enthusiastic academic staff who are internationally recognised for their research achievements. In the most recent Research Assessment Exercise (RAE), geography at Dundee was rated joint 1st in Scotland for research classed as internationally excellent or world-leading.

The geography degree course at Dundee is highly flexible. Depending on your interests and the combinations of subjects you want to take, you can study geography for an MA or for a BSc. In addition to a wide range of joint Honours degrees there are also specific degree pathways in geography and planning and, for those interested in political issues in a global context, geopolitics.

You will also have the opportunity to study geography in an international context. There are many opportunities to participate in field trips to international locations such as California, New York and Spain as well as expeditions to Iceland and the Italian Alps. You can also spend one semester or up to a whole academic year studying abroad either in Europe or North America.

employability

A recent study by the Royal Geographical Society showed that, compared with other subjects, geographers are among the most employable because they develop the kinds of skills and knowledge that employers value such as communication, problem solving and analysis.

Some of our students go into careers which are linked to geography in fields like development, the environment, hydrology, tourism, planning and computing. Others enter more general fields, like management and administration, marketing or finance.

Geography at Dundee also has its own employers' forum which provides careers advice for students as well as guidance on developing the geography degree in ways suited to what employers are looking for in new graduates.

teaching and assessment

Our teaching is a mixture of lectures, seminars, tutorials, workshops, and practicals, and you will also use our state-of-the-art physical geography laboratory and specialist software resources such as Arc/GIS.

However, geography is a field-based subject so throughout your degree you will also spend much of your time outside the classroom.

In Level 1 you undertake a study of Dundee based on local urban fieldwork, in Level 2 you attend a residential field class in the Scottish Highlands, and in Level 3 there is a foreign field class in south east Spain.

There are also many other local excursions which exploit Dundee's location close to some of the most spectacular scenery in the UK as well as its proximity to Scotland's major cities. In addition, some optional modules include foreign field excursions, such as that to New York City for those taking the Urban Geography II module.

Most courses are assessed by a mix of examinations and coursework. In Levels 1 and 2, continuous assessment from coursework provides around 50% of your overall mark. In Levels 3 and 4 there are some courses which are based wholly on continuous assessment while others are assessed on a 50/50 examination/coursework split.

Please visit the programme webpage for more information about course progression.

how has your degree helped you in the 'real world'?

Ashley Quigley graduated with an MA (Hons) Geography in 2009. After graduation she completed a PGDE in Geography and is now a fully qualified Geography teacher. She says: "The MA in Geography provided me with many skills that have been easily transferred to employment, such as fieldwork, group work and presentation skills. I thoroughly enjoyed the course as it offered an array of topics which were both interesting and challenging. Throughout the course I was constantly supported by staff in the geography department, making it easy to progress through the different levels. The fieldwork elements of the course, the group projects and presentations increased my confidence levels and taught me how to work as part of a team."

programme content • typical degree programme example

Please refer to the **degree structure and overview** pages for the **MA** (page 135) and **BSc** (page 134).

MA/BSc Honours degree →

Advanced entry MA/BSc Honours degree →

Level 1

- A World in Crisis? Population and Environment
- A World of Plenty? Development and Resources

plus 4 other modules including at least 2 appropriate science-based modules for BSc degrees

Level 2

- Dynamic Human Worlds: Society, Culture, Economy
- Dynamic Physical Worlds: Earth, Water and Ice

plus 4 other modules including at least 2 appropriate science-based modules for BSc degrees

Level 3

- Research Methods & Field Skills
- Geographical Concepts and Techniques

plus 2 optional modules (from a choice of):

- Biogeography
- Cities: Places, People and Conflicts I
- Glacial Processes and Environments I
- Hydrology and Water Resources I
- Urban Geography I
- Geographical Information Systems I
- Geographies of Health I
- Geographies of Power I
- Geographies of Children and Youth I
- Reconstructing Past Environments
- Transnationalism and Mobility I
- Water Hazards and Risk I

Level 4

- Dissertation

plus 3 optional modules (from a choice of):

- Catchment Sediment Dynamics
- Geographical Information Systems II
- Hydrology and Water Resources II
- Urban Geography II
- Coastal and Estuarine Geoscience
- Environmental Change and Sustainability
- Geographies of Health II
- Geographies of Power II
- Critical Reading and Review Essay
- Glacial Processes and Environments II
- Water Hazards and Risk II
- Geographies of Children and Youth II
- Cities: Places, People and Conflicts II
- Tourism, Transnationalism and Mobility II

For details of the programme content for Geopolitics please visit our programme webpage.

history/scottish historical studies

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None, but see entry requirements for other joint Honours subject.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	None, but see entry requirements for other joint Honours subject.

other qualifications

Please see 'Humanities/Economic Studies' on page 140 for details.

degree programmes (with UCAS Codes)

MA History	V140
MA Scottish Historical Studies	V212
MA History and…	
American Studies	TV71
Business Economics with Marketing	LNV0
Economics	LV11
English	QV31
European Studies	RV81
Geography	LV71
International Relations	LV2C
Philosophy	VV15
Politics	LV21
Psychology	CV81
MA History with…	
French	V1R1
German	V1R2
Spanish	V1R4
MA Scottish Historical Studies with...	
French	V2R1
German	V2R2
Spanish	V2R4

See **making your application** on page 32.

why study at dundee?

All our lecturers are internationally-recognised experts in their fields, and we are currently rated as the top history department in Scotland for the proportion of world-class and internationally excellent research (in the RAE 2008 national rankings).

History at Dundee is both rigorous and enjoyable. Our emphasis is on 'doing history' and our students use primary sources (original documents) from archives and libraries right from the start. Study trips are also an important part of the degree programme, and visits are organised alongside our active Student History Society.

There is a very strong link between research and teaching in the history programme, especially at Levels 3 and 4, where staff teach in their areas of expertise. We regularly update our curriculum to reflect cutting-edge research. Field trips are offered on several modules, and there have been recent excursions to Madrid, Prague, and North America, as well as more local places like Dundee's historic dockyards.

You will be joining a dynamic and friendly environment, and we offer a broad training which will benefit you in your later career.

employability

A history degree is an extremely valuable qualification. It provides a solid foundation in analytical skills and communication, both highly sought after by employers.

The history programme at Dundee is designed to produce confident, intellectually-engaged graduates who can think creatively and independently, ask incisive questions, articulate their ideas, and solve complex problems.

Our recent graduates have gone into the media, teaching, politics, business, finance, the diplomatic service, and many other dynamic high-earning careers. Some graduates have continued their studies with us at postgraduate level, studying one of a range of MLitt Humanities programmes on offer and progressing to PhD level.

teaching and assessment

From the very start of your studies, you will be analysing various kinds of historical evidence, including written and oral evidence, maps and visual images. You will benefit from our close links with the University's Archives, Records Management and Museum Services and you will be able to examine many original historical sources first-hand. You will also learn about historical debates and how to form your own judgements about complex problems.

As you progress through the different stages of your studies we will help you to master a variety of other key skills, including palaeography (reading old handwriting), database analysis, and team work. We will also assist you in developing your skills in source analysis as you look closely at a wider range of sources used by historians, including correspondence, photographs, feature films, architecture, art and music. In your final year, you will have an opportunity to apply these skills by writing a dissertation on a topic of your own choice.

You will encounter a range of different teaching methods, from lectures and tutorials, to seminars and workshops. All modules are extensively supported by MyDundee, our virtual learning environment, which provides up-to-date module information, discussion forums, access to online resources, and many other things.

We measure your progress and achievement in several ways, including essays, oral presentations, module journals and projects. Our modules range from 100% continuous assessment to 50% continuous assessment and 50% examination performance. Students recently described our modules as 'inspirational', 'intellectually challenging', 'enjoyable and above all informative'. Our teaching staff are all highly committed to ensuring that you achieve your full potential as a historian.

In the 2011 National Student Survey we were ranked Top in Scotland and 1st equal in the UK with 100% of our students saying they were satisfied with the quality of the course.

programme content • typical degree programme example

Please refer to the **MA degree structure and overview** on page 135.

MA Honours degree

Advanced entry MA Honours degree

Level 1

A total of 6 modules, two of which may be chosen from:

- Age of Revolution (core module)
- Britain in the 20th Century
- The Globalising World

Level 2

A total of 6 modules, including:

- Europe in Transition 1870-1922 (core module)
- The Making of European Empires 1500-1700 (core module)

Level 3

Making History: Issues in the Study of the Past (core module)

plus 3 modules (2 for joint Honours), chosen from:

- Britain in the 1960s
- Customs and Culture in Britain and Europe c.1500-2000
- Early American History, 1607 - 1783
- Globalisation and History c.1870 to 2000
- Holland in the Age of Rembrandt
- Imperial Russia 1700-1917
- Imperial Spain 1476-1840
- Interpreting German History, 1814 - 1914
- Medieval Russia
- Questions of Ulster 1590-2004
- Race and Region: The American South 1865-1945
- Restoration, Revolution, Union and Rebellion: Scotland c.1660- c.1760
- Scots on the Move: a century of Scottish migration and emigration c. 1830 to 1930
- Reading 17th Century Scotland
- Society and Politics in France and Germany 1814-1914
- Society and Politics in Italy 1860-1980

(Not all options will be available in any one year)

Level 4

Either

- Independent Study Project plus a Special Subject (worth 2 modules) plus one other Level 4 history module

or

- Independent Study Project plus 3 modules

or

- Special Subject (worth 2 modules) plus 2 other modules

Level 4 modules may include:

- Dundee and the world since 1940
- Enlightened Despotism in Europe c.1763-c.1789
- Fascist Italy
- Film and History
- History of the Book 1500-1800
- Popular Protest and Political Violence in Europe 1918-2001
- Readings in Russian Culture and Society 1861-1917
- Scotland and Europe c.1530-c.1570
- The African American Freedom Struggle 1890-1955
- The Economy, the State and the People: Britain 1940-1997

(Not all options will be available in any one year)

Please visit our programme webpage for a full list of Level 3 and 4 modules, Level 4 Special Subjects and the programme content for Scottish Historical Studies.

international business

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None, but see entry requirements for other joint Honours subject.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	MA – None, but see entry requirements for other Joint Honours subject. BSc programmes must include economics or mathematics plus accountancy or business studies (AH, A-L, HL).

other qualifications

Please see 'Humanities/Economic Studies' on page 140 for details.

degree programmes (with UCAS Codes)

MA International Business	N122
MA International Business with Marketing	N1N5
MA International Business and...	
Finance	NN1H
Environmental Sustainability	NF17
International Relations	NL12
MA International Business with...	
French	N1RD
German	N1RG
Spanish	N1RL
BSc International Business	N120
BSc International Business with...	
E-commerce	N1G9
Marketing	N1NM
Financial Management	N1N3
French	N1R1
German	N1R2
Spanish	N1R4

See **making your application** on page 32.

why study at dundee?

We live in a world where economic activity is global in scale. National boundaries now matter very little to decisions about where goods are made and services provided: your PC might be made in Taiwan; when you contact a call centre the person answering your call might be living in India; and when you come to the University of Dundee you will meet staff and students from all over the world.

By studying international business you will understand how this has come about, and what it means for today's business world. You will be fully equipped to develop your own career in this new and challenging work environment.

Dundee offers a flexible Honours programme in international business enabling you to choose a combination of subjects that best suits your aptitudes and aspirations. You can choose to take either an MA if your interests and background lie mainly in the arts and social sciences or a BSc if you want to focus more on management studies or accountancy.

We provide a fresh introduction to international business which is suitable both for those that have studied economics, business management or accountancy before and for those that are new to the subject.

Established exchange programmes also give you the opportunity to complete part of your degree in Europe, Canada or the United States through the Erasmus and Transatlantic Student Exchange Schemes.

employability

Our degrees have been designed to provide graduates with the skills they need to launch high-flying executive careers. One of our recent graduates, Anthony Brennan, now works for one of Europe's largest training companies. He believes his degree in international business gave him a realistic grounding which prepared him for entry into the business world. Having studied theoretical and real life examples, he is able to apply what he has learned to his daily work, whether that be dealing with private or public companies or government.

Studying for a degree such as international business is a recognised route to a graduate career in business, management, finance and marketing. To help students with their job search, we organise sessions on career prospects where potential employers are invited to talk to students about future opportunities.

teaching and assessment

We use a range of learning methods at Dundee. In Levels 1 and 2 you will be taught with a combination of lectures and tutorials, supplemented by workshops and computer laboratory sessions. These continue in Levels 3 and 4 but you are also given the opportunity to prepare and deliver presentations, both individually and as a group. You will engage in case studies in which you research a company or topic in which you have an interest.

Coursework, in the form of essays, quizzes and group projects, plays an important role in assessment which, together with examinations, provides the basis for your final grade.

what our graduates say…

"The best thing about the international business course is the variety of different subjects that you study. You get to experience most aspects of the business world and when you enter into your final years you can specialise in the aspects that you enjoy most."

Lynsey Merchant, graduated in 2011 with BSc International Business

programme content • typical degree programme example

Please refer to the **degree structure and overview** pages for the **MA** (page 135) and **BSc** (page 134).

MA/BSc Honours degree →

Advanced entry MA/BSc Honours degree →

MA International Business

Level 1
- Global Economic Perspectives
- Foundations of Economic Analysis

plus 4 other modules

Level 2
- Microeconomics
- Macroeconomics and Economic Statistics

plus 4 other modules

Level 3
- Business Economic Analysis
- Quantitative Methods for Business

plus 2 options

Level 4
- Economics of Globalisation
- Business Strategy

plus 2 options

BSc International Business

Level 1
- Foundations of Economic Analysis
- Global Economic Perspectives
- International Business Environment
- Business Accounting and Finance for Non-accountants

plus 2 other modules

Level 2
- Microeconomics
- Macroeconomics and Economic Statistics
- Intermediate Financial Management
- Management and Concepts in Context

plus 2 other modules

Level 3
- Business Economic Analysis
- Quantitative Methods for Business

plus 2 options

Level 4
- Economics of Globalisation
- Business Strategy

plus 2 options

Specified options

For variants of the international business programme some module options are specified. Please visit the programme webpage for more information.

law

minimum requirements

4 year Honours - LLB Scots Law/LLB Law (Dual Qualifying)

SQA Higher:	**AABB/ABBBB** (first sitting)
	AABBB/ABBBBB (two sittings)
GCE A-Level:	**ABB** (excluding General Studies)
ILC Higher:	**ABBBBB**
IB Diploma:	**32** points with 6, 5, 5 at HL

3 year Honours – LLB English Law

SQA Advanced Higher:	**AA+AABB/ABBBB** (H- first sitting)
	AA+AABBB/ABBBBB (H- two sittings)
GCE A-Level:	**AAB** (excluding General Studies)
ILC Higher:	**AABBBB**
IB Diploma:	**36** points with 6, 6, 5 at HL

graduate entry accelerated or senior status degrees
Graduates with an appropriate first degree (2.2 Honours degree or Ordinary degree with 60% or higher in all Level 3 modules) can have their period of study reduced to two years.

Essential subjects for all degree programmes:
English at B (Higher, ILC H, HL) or English or a literary subject at B (AS) and mathematics or a science (SG at 2, Int2 at B, GCSE at B, Ord at B, SL at 5). Additionally for Law with Languages, Higher at B or A-L at C in the appropriate language.

other qualifications

Please see 'Law' on page 140 for details.

Applications from students with non-standard educational backgrounds and qualifications are welcomed and will be considered on their merits. These applicants must be able to show evidence of recent academic achievement. Certain professional qualifications or two or three recent Highers (or equivalent) may be considered sufficient.

Law is based on logical thinking therefore applicants are advised to offer a range of literary and logic-based subjects.

degree programmes (with UCAS Codes)

4 Year Honours degrees

LLB Scots Law*	M114
LLB Law (Scots and English) Dual Qualifying	M190
LLB Scots Law with...	
French	M1R1
German	M1R2
Spanish	M1R4

3 Year Honours degrees

LLB English Law*	M111
LLB English Law with...	
French	M1RC
German	M1RF
Spanish	M1RK

graduate entry accelerated or senior status degrees (2 years)

LLB English Law	M101
LLB Scots Law	M104

*Also available as joint degrees with MA subjects e.g. European studies, history, philosophy or politics.

See **making your application** on page 32.

professional accreditation

Dundee is the only law school in the UK to offer fully qualifying law degrees for the legal profession either in Scotland or in England and Wales, and Northern Ireland. We also offer a dual qualifying degree in both Scots and English Law.

why study at dundee?

Dundee is a truly unique law school. We offer a modern, forward looking approach to learning and a rigorous preparation for the professional world, whether in the legal sphere or elsewhere.

By offering fully qualifying law degrees for the legal professions either in Scotland or in England and Wales, and Northern Ireland, we attract students from around the UK and from countries such as Canada, India and Nigeria onto our undergraduate LLB as well as our postgraduate degrees.

For students on the Scots stream of the LLB there is also a unique and intellectually demanding option to achieve dual qualification. On graduating with this degree, students have a choice of jurisdictions where they can study for their postgraduate professional qualification, giving our graduates a significant competitive advantage in the marketplace.

With an annual intake of only 140 we can take a personal and supportive interest in our students. A strong emphasis is placed on the accessibility of our staff and on small group teaching involving our most senior staff.

The Law School also runs a Law Clinic which provides students with practical experience in dealing with clients and real life problems as well as reinforcing links with the profession.

employability

We have close links with employers and we offer several programmes and training sessions to support and develop the employability of our students. Our good reputation throughout the profession and close links to employers help Dundee graduates find employment.

The Law School runs an annual Law Fair which attracts law firms and employers from around the UK and further afield. Law firms also regularly visit the law school on an individual basis for recruitment purposes. Dundee graduates have reached the highest levels of success in the profession as senior partners, Queen's Counsel, judges and front bench politicians. One of our current students has been offered a traineeship (stage) at the Court of Justice of the European Union which he will take up upon finishing his undergraduate degree.

While many students study law in order to qualify to practise, the skills acquired in a law degree are also attractive to many prospective employers and the LLB is an ideal basis for a career in professions such as the police, banking, journalism, management and the civil service.

For those who do want to enter the legal profession, our Diploma in Legal Practice (PEAT 1) has an excellent record of graduate employment across the UK and is taught by practicing solicitors.

A number of graduates go on to undertake postgraduate degrees within the School in areas such as commercial, international, human rights and environmental law.

teaching and assessment

All of the teaching staff in the Law School are experts in their respective fields, contributing to Law Society committees, government panels, parliamentary committees, leading texts and are generally involved in the shaping of the law. This expertise is employed in our teaching which is award winning, and in the 2011 National Student Survey 97% of our students said they were satisfied with the quality of their course, resulting in our ranking of 1st in Scotland and 3rd in the UK.

Our approach is intended to be both innovative and progressive with a changing emphasis as the student advances through the levels of the degree programme:

- In the first two years, teaching consists of a balance between lectures supported by small group teaching in tutorials and independent and group study.
- In the latter part of your degree a greater proportion of coursework is conducted independently and classes take the form of seminar discussion.
- In the final year of study coursework involves preparation and presentation of the dissertation, a substantial work of independent, but supervised and supported research on a topic of your choice which can be aligned to your career objectives.

The form of assessment varies between modules. Presentations may be used to evaluate oral communication of reasoned legal argument and the ability to work effectively as part of a team. Moots may be used to assess court room manner and the ability to argue interactively.

Law undergraduates can also choose to spend a semester or a year at a European university under the Erasmus programme. We have agreements with universities in Belgium and the Netherlands (for study in English) as well as universities in France, Spain and Germany.

Law students have also been successful in winning places on the University's exchanges with Australian universities.

what our students say

Scott Pike, from Canada, is studying for an accelerated LLB in English Law. He says, "The School of Law has a great reputation - largely due to the research and expertise of the faculty - which is reflected in the consistently high rankings earned year after year. Much needed perspective and context is garnered from lectures which focus on major problems that we are currently experiencing such as climate change and economic crises. The School makes great strides in bringing the law out of the books and it is a strategy that is both effective and engaging."

programme content • typical degree programme example

4 Year Honours LLB Scots Law / LLB Law (Scots and English) Dual Qualifying degree programmes

Level 1

- Private Law of Scotland I*
- Private Law of Scotland II*
- Scots Criminal Law & Evidence*
- Foundations of Law*
- Public Law I – Sources of Power*
- Public Law II – Controls of Power*

Level 2

- Scottish Property Law*
- Public Law III – Rights & Freedoms*
- Commercial Law*
- Family Law*
- Law, Society & Human Rights*
- Optional module

Level 3

- Choice of 4 x 30 credit modules

or

- Courses on Erasmus exchange equivalent to 120 credits

For dual qualifying degree modules, please see the programme webpage

Level 4

- Choice of 3 x 30 credit modules
- Dissertation (30 credits)*

3 Year Honours English Law degree programme

All students on the 3 year Honours English/NI Law degree programme start the programme in the equivalent of Level 2. There is no Level 1 for this programme.

- English Law of Contract*
- English Law of Tort*
- English Criminal Law & Evidence*
- Foundations of Law (Enhanced) *
- Public Law I – Sources of Power (Enhanced) *
- Public Law II – Controls of Power (Enhanced) *
- English Law of Equity and Trusts*
- English Law of Property*
- Public Law III – Rights & Freedoms (Enhanced)*
- Justice Law & Human Rights

Students may take an optional module but this is not required

- Dissertation (30 credits)*
- Choice of 3 x 30 credit modules

or

Courses on Erasmus exchange equivalent to 60 credits (1 semester) plus 1 x30 credit module

* Compulsory module

For a list of Honours modules, dual qualifying degree modules, the law with languages and joint degree options and the accelerated degree structure, please visit the programme webpage *www.dundee.ac.uk/prospectus/law*

mathematics/mathematical biology

minimum requirements

SQA Higher:	**AAAB**
GCE A-Level:	**ABB**
ILC Higher:	**AAAB**
IB Diploma:	**32** points with 6, 5, 5 at HL
Essential subjects:	Mathematics at A (Higher, ILC H, HL) or B at A-L. Additionally, for Mathematical Biology passes should also include a science (Higher, A-L, ILC H, HL) and chemistry (SG, Int2, GCSE, Ord, SL).

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **AB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Mathematics at A (AH, A-L, HL). Additionally, for Mathematical Biology passes should include biology (AH, A-L, HL) and chemistry (SG, Int2, GCSE, Ord, SL).

other qualifications

Please see 'Engineering, Physics and Mathematics' on page 140 for details.

degree programmes (with UCAS Codes)

BSc Mathematics	G100
BSc Mathematical Biology	CG11
BSc Mathematics and...	
Accountancy	GN14
Applied Computing	GG14
Economics	GL11
Financial Economics	GLD1
Physics	FG31
Psychology	CG81
MA Mathematics and Business Economics with Marketing	LNG0
MA Mathematics and English	GQ13

See **making your application** on page 32.

why study at dundee?

Our mathematics degree is an 'applied mathematics' degree; you will learn to solve mathematical problems at the cutting edge of our understanding of the world around us, in small classes and a friendly atmosphere.

The BSc in Mathematical Biology is the only dedicated undergraduate mathematical biology degree offered in the UK. Mathematical biology involves using mathematical techniques and computational tools to answer problems that arise in biology. New, exciting challenges in the life sciences are now being met using mathematical modelling, which is having a direct impact on health, social and ecological aspects of modern life.

We are a relatively small division and operate with an excellent staff/student ratio. One advantage of this is that we can get to know each student personally, and so can offer a friendly and supportive learning experience. Staff are ready and willing to help at all levels, and in addition, our Student-Staff Committee meets regularly to discuss matters of importance to our students.

employability

Mathematics is central to the sciences, and to the development of a prosperous, modern society. The demand for people with mathematical qualifications is considerable, and a degree in mathematics is a highly marketable asset. Mathematics graduates are consistently amongst those attracting the highest graduate salaries and can choose from an ever-widening range of careers in research, industry, science, engineering, commerce, finance and education. Many of our graduates enter the financial sector following career paths in accountancy, banking, the stock market and insurance.

Exciting new applications of mathematical biology are opening up yet more career options in the biotech industries. Here you could be involved in designing new anti-cancer drugs or new treatment regimes for patients with diabetes. Even if you do not take your mathematics any further than university, employers know that mathematics graduates are intelligent, logical problem solvers. With this training behind you, the career options become almost limitless.

teaching and assessment

Mathematics is taught as a broad-based syllabus at Levels 1 to 3. This leads onwards in Level 4 to a set of topics inspired by our internationally-rated research strengths in applied mathematics, including numerical analysis, mathematical biology, applied analysis and magnetohydrodynamics. This means that our undergraduate programme is always up-to-date and focused on important and exciting applications of modern mathematics.

You will learn by a combination of lectures, tutorials, workshops and computer practical classes. You will also undertake supervised work in a dedicated PC laboratory using mathematical software packages. In a typical week you will attend three lectures and one tutorial associated with each module, however, some modules will expect more.

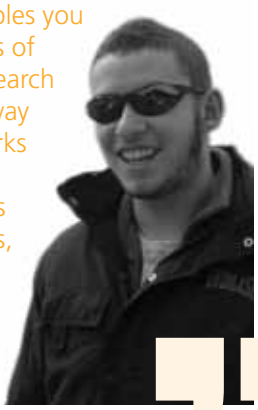
All students taking Level 1 modules carry out two mini-projects, working in teams of 3 or 4. The use of specialised software continues within the Level 3 and 4 modules, where you will be introduced to the powerful Matlab system.

Assessment for all modules (except Mathematics 1A and the Honours Project) involves a final examination and takes into account varying amounts of continuous assessment, including assignments and class tests.

The structure of the mathematics degree programmes is flexible, and you may change your programme of study by consulting your Adviser of Studies after you have sampled work at either Level 1 or Level 2.

what is the best thing about your course?

The best thing about studying mathematics is that it keeps your options open and enables you to progress into careers in all kinds of fields whether they be science research based or financial positions. The way the maths degree programme works enables you to study not just pure mathematics but to study modules from other Schools such as physics, biology or economics.



Jonathan Weightman,
3rd year student
– BSc (Hons) Mathematics

programme content • typical degree programme example

Please refer to the **degree structure and overview** pages for the **MA** (page 135) and **BSc** (page 134).

BSc/MA Honours degree →

Advanced entry BSc/MA Honours degree →

Level 1

- Mathematics 1A
- Mathematics 1B

plus 4 modules of your own choice

Level 2

- Mathematics 2A
- Mathematics 2B
- Statistics and Discrete Mathematics
- Computer Algebra and Dynamical Systems

plus 2 modules of your own choice

Level 3

- Analysis
- Complex Analysis
- Differential Equations
- Differential Geometry
- Fundamentals of Scientific Computing
- Graph Theory
- Mathematical Methods
- Operational Research

Level 4

- Mathematical Biology I + II
- Mathematics of Fluids and Plasmas I: Fluid Dynamics
- Mathematics of Fluids and Plasmas II: Magnetohydrodynamics
- Ordinary Differential Equations and their Approximation
- Partial Differential Equations and their Approximation
- Personal Transferable Skills and Project Work

For details of the programme content for BSc Mathematical Biology, please visit our programme webpage.

The best aspect of study at Dundee is the enthusiasm of lecturers. With a small department, communication between lecturers and students is very good.

Final year student comment from the National Student Survey

mechanical engineering

minimum requirements

SQA Higher:	**AAAB**
GCE A-Level:	**ABB**
ILC Higher:	**AAAB**
IB Diploma:	**32** points with 6, 5, 5 at HL
Essential subjects:	Mathematics and a science or engineering subject (Higher, A-L, ILC H, HL).

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **AB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Mathematics and a science or engineering subject (AH, A-L, HL).

other qualifications

Please see 'Engineering, Physics and Mathematics' on page 140 for details.

degree programmes (with UCAS Codes)

BEng Mechanical Engineering H300

See **making your application** on page 32.

professional accreditation

Our BEng (Hons) degree is accredited by the Institution of Mechanical Engineers (IMechE) and therefore meets the initial academic requirements to progress to Chartered Engineer status.

why study at dundee?

Modern mechanical engineering requires people who are able to combine a very broad range of technical, scientific, creative and management skills to achieve goals in sectors ranging from space exploration to energy management to surgical innovation. At Dundee we pride ourselves in taking a modern systems based approach to developing these mechanical engineering skills within our students.

Throughout the degree, students will have an opportunity to mix traditional core engineering disciplines with emerging technologies to create truly innovative solutions to design and analyse problems. To support this, we have invested heavily in developing facilities in important new areas of engineering including rapid prototyping, renewable energy and embedded control technology. It is strongly felt that the best way to develop student skills is through practical work and students have extensive opportunities to gain hands-on experience in group and individual project work.

Our students have the opportunity to participate in Formula Student, Europe's biggest student motorsport event run by the Institute of Mechanical Engineers (IMechE), which challenges university students from around the world to design and build a single-seat racing car, which is then put to the test at the famous Silverstone Circuit. In 2010, our DRIVE team won the Safety Award (for best crash avoidance or impact mitigation system).

employability

Mechanical engineering graduates from Dundee are highly employable and enjoy a broad range of career options. Many graduates progress directly into working in mainstream engineering sectors including the energy (oil industry and renewable energy), aerospace, automotive and defence sectors. The ability to solve practical problems is also highly attractive to employers and opens opportunities in consultancy, finance, teaching and the armed forces.

A number of our graduates go on to study our MSc Biomedical Engineering or MSc Design for Medical Technologies programmes at Dundee whilst others decide to continue their studies at PhD level in the exciting area of biomedical engineering and biotechnology which is a main research strength of the department.

teaching and assessment

The course is made up of a number of specialist modules. These modules are presented at four levels corresponding to the four years of the course. Modules in Levels 1 and 2 concentrate on essential engineering principles and basic science, and are taken in common with students on other engineering courses. More specialised mechanical engineering modules are taught in Levels 3 and 4.

The modules are taught via a balanced arrangement of lectures, tutorials, design assignments and laboratory-based experimentation. Students are given the opportunity to design, manufacture and analyse engineering products using our extensive computer-based facilities.

The syllabus includes mechatronics (the integration of electronics and computer control with mechanical engineering), giving students a broad range of skills for the development of modern, high performance products. In addition to the traditional engineering subjects students undertake projects both individually and as members of a team. There is a special feature in which teams of students each work to solve some real industrial problem posed by a company. There is also considerable emphasis on team work supported by brainstorming sessions and group discussions, all leading to the formation of new ideas and concepts.

Assessment is by a combination of formal end of semester examinations, coursework and assignments. Mechanical engineering at Dundee is extremely research active and students have the opportunity to work with staff and external industrial partners at the forefront of developing new technologies.

what was the best thing about your course?

I would have to say that the staff in the mechanical engineering division made the course what it is. They were always on hand to help students with any problems they encountered throughout the course, and always had the students' best interests at heart. It is a very dynamic and relevant course which is constantly moving ahead with the industries. The division invests in its students' futures, and always strives to offer state of the art facilities and resources.

Paul O'Mahoney graduated in 2011 with BEng (Hons) Mechanical Engineering. He is now studying for a PhD at Dundee.

programme content • typical degree programme example

BEng Honours degree (4 years) →
BEng degree (3 years) →
Advanced entry BEng Honours degree (3 years) →

Level 1

- Design Technology
- Mathematics
- Mechanics and Thermodynamics
- Professional Studies
- Project

Level 2

- Electrical & Mechanical Systems
- Engineering Design & Communications
- Engineering Science
- Engineering Software for Mechanical Engineering Design
- Mathematics for Engineers
- Structural Design & Manufacturing

Level 3

- Control & Dynamical Systems
- Engineering Design
- Engineering Materials
- Mathematics for Engineers
- Solid Mechanics
- The Business Framework
- Thermofluids

Level 4

- Advanced Robotics & Mechatronics
- Computer Aided Engineering
- Control & Dynamical Systems
- Fluid Mechanics
- Honours Project
- Solid Mechanics & Materials

We were ranked 2nd in Scotland and 6th equal in the UK for 'graduate prospects' by the Times Good University Guide 2012

medicine

minimum requirements

MBChB

SQA Higher:	**AAABB**
GCE A-Level:	**AAA** (A2) excluding General Studies
ILC Higher:	**AAAAAA**
IB Diploma:	**37** points with 6, 6, 6 at HL
Essential subjects:	Chemistry and another science (Higher, A-L, ILC H, HL) and biology (SG at 2, Int2 at C, GCSE at B, Ord at B, SL at 5).

Graduates: An upper second class Honours degree in a science discipline.

Premedical Year

SQA Higher:	**AAAAB**
GCE A-Level:	**AAA** (A2)
ILC Higher:	**AAAAAA**
IB Diploma:	**37** points with 6, 6, 6 at HL
Essential subjects:	including not more than one science (H, A-L, ILC H, HL).

Graduates: An upper second class Honours degree in a non-science discipline.

Premedical Widening Access (WA) Year

SQA Higher: **AABBB**

Essential requirements: Local school pupils with evidence of significant adversity.

Notes: See the opposite page for notes on entry requirements for medicine.

degree programmes (with UCAS Codes)

MBChB Medicine	A100
Premedical Year Entry or WA Entry	A104

who should apply?

- Students who have done well at school and are committed to medicine.
- Individuals with other interests demonstrating additional 'capacity' as well as personal organisation motivation and sound interpersonal skills.
- Graduates and mature students are welcome to apply.

See **making your application** on page 32 and please visit our programme webpage for specific details on applying to medicine.

professional accreditation

This programme is fully accredited by the professional governing body for medicine in the UK, the General Medical Council (GMC).

why study at dundee?

Dundee is a distinctive, small and cohesive medical school which is an international centre of excellence in medical education and consistently features at or near the top of UK student surveys and league tables. We have consistently been the top UK school in graduate surveys of preparedness to practice.

Dundee is an excellent place to study medicine because of the high quality teaching programme, University and NHS facilities available and great student community. Problem-orientated, student-centred and case-based, our medical course closely follows recommendations of the latest 'Tomorrow's Doctors' guidance issued by the General Medical Council.

In Dundee you have the opportunity to study medicine in a fully integrated medical school and hospital with extensive teaching and research facilities, which serve academic, educational and clinical needs well. Ninewells Hospital and Medical School is the centre of many areas of cutting edge and pioneering research in areas including cancer, diabetes, cardiovascular disease, drug development, and medical education.

You will be part of a caring community providing healthcare for Tayside, Fife, and further afield, and have access to a wide range of excellent facilities. A new library and education teaching facility is currently being built on the Ninewells Hospital site which will further enhance the quality of our teaching. You will use a leading Clinical Skills Centre, have the benefit of resources produced by a vibrant e-learning group and have excellent access to both hospital and community clinical areas from the outset.

teaching and assessment

Dundee Medical School is renowned for leadership and innovation in medical education.

The medical course learning outcomes are those defined in 'Tomorrow's Doctors 2009' namely:

- The doctor as a practitioner
- The doctor as a scholar and scientist
- The doctor as a professional.

These outcomes underpin the entire curriculum and its assessment and provide a framework for learning.

Approximately 100 core clinical problems provide a vital focus for learning. In years 1- 3 (Systems in Practice) they are used to illustrate key principles and provide a clinical basis to learning the body systems and later in years 4 & 5 (Preparation in Practice) they define the competencies needed by newly qualified doctors.

Clinical experience with direct patient contact is introduced in the first weeks of Year 1. A feature of the curriculum is that you spend at least 10% of your time in the community. This is of value whether your eventual career is to be in General Practice or hospital based.

A state of the art Clinical Skills Centre provides the opportunity to develop the skills of communication, physical examination and practical procedures in a safe environment. Sophisticated models, actors and simulated patients are regularly used.

A recognised and commended feature in the Dundee curriculum is the use of study guides and the virtual learning environment (VLE), with lectures and face to face teaching including small group, ward based and practical activities being supported by a range of e-learning opportunities.

The study guides are designed to support your learning throughout the course and to help you to manage your own learning in each phase of the programme.

In addition to the curriculum common to all students, you have a choice of studies from a wide range of SSC (Student Selected Components), and you can even propose your own to reflect your own interests and needs. SSCs form approximately one third of the course. You can also choose from a range of clinical attachments in Dundee, Tayside, and elsewhere in Scotland and the UK in the later years of the course.

In your final year you have the opportunity to travel anywhere in the world to undertake a period of elective study.

Dundee has been at the forefront of new approaches to assessment in medical education, meeting the challenges posed by an integrated, outcome-based curriculum. A range of assessment methods is used including:

- online progress test which allows you to identify areas on which to focus
- online assessments of knowledge and understanding
- clinical examinations
- portfolios of learning.

These are designed to assess your mastery of the curriculum outcomes, and test skills and attitudes as well as knowledge.

programme content • typical degree programme example

The programme is in two phases; Systems in Practice and Preparation for Practice.

Systems in Practice, Years 1-3

In the first 3 years of the MBChB course, following an introductory block which introduces the curriculum outcomes and the key principles (anatomical, biomedical, disease mechanisms, psychosocial and safe medical practice) on which your medical knowledge is founded, you will undertake a body systems based programme. Normal and abnormal structure, function and behaviour in relation to clinical medicine are studied systematically in modules (e.g. cardiovascular, respiratory and gastrointestinal systems). Use of core clinical problems allows a problem-orientated approach to learning in parallel with lectures, tutorials and systematic training in relevant clinical skills. Learning is integrated and vocational skills are developed through additional experiences on wards and in primary care from the start of year 1.

The systems programme is integrated so you will learn about the basic science and clinical aspects at the same time as you progress. Basic science, including anatomy by dissection, is taught in all body systems with periods of time to allow you to consolidate your learning in each semester. A transition module at the end of Year 3 will prepare you for your studies on clinical attachments in years 4&5.

Student Selected Components (SSCs) are undertaken in all 3 years of Systems in Practice.

Intercalated BMSc
You will have the option of undertaking a one year BMSc degree to study a topic in more depth usually between years 3&4. Courses are currently available in and wide range of areas including anatomy, biochemistry, pharmacology, physiology, international health and medical education.

Preparation for Practice, Years 4-5

In years 4&5 you will be able to apply the skills and knowledge acquired in the earlier years in a variety of clinical settings in hospital (e.g. medical, surgical, obstetric, child health, and psychiatric services) and in general practice. Study guides on the core clinical problems support the tasks required to demonstrate you have achieved the curriculum outcomes and to prepare you for clinical practice as a competent and reflective Foundation doctor.

Year 4 consists of 10 x 4 week blocks (clinical attachments).

A six week elective period between Years 4 and 5 allows you to study medicine at a centre of your choice. An extended 4 month placement in Malawi is available.

Year 5 consists of 7 x 4 week blocks.
In the final year only the medical and surgical foundation apprenticeships, an Acute Care block and GP blocks are stipulated. The remaining three attachments are student selected. Two are clinical, so you can spend some additional time in a clinical discipline of your choice, perhaps to enhance experience or if you are considering career options, and may include extended GP placements or other specialist units within the UK. The other block is theme based and allows you to study a topic e.g. cancer from different perspectives.

Further details are available on the Medical School website:
www.dundee.ac.uk/medschool/undergraduate/mbchb

notes on entry requirements:

1. Strong non-academic achievements in areas such as community service, talents such as sports or music and other markers of personal motivation and organisation improve an application.
2. A clear knowledge of, and commitment to, a career in medicine should be demonstrated. We encourage prospective students to have up to two weeks of medically-related work or shadowing experience and to find out about our course through our open days.
3. All Highers and A-Levels applicants must have obtained these qualifications at the first opportunity, preferably in a single sitting. Re-taken qualifications are not considered.
4. Human biology or social biology is accepted as an alternative to biology at Higher or A-Level. If biology has not been passed at Higher or A-Level this subject must have been passed at GCSE or equivalent. An appropriate group of SQA (formerly SCOTVEC) National Certificate modules may be accepted as an alternative. A good pass in Combined or Dual Science at GCSE may be accepted instead of a single GCSE pass in biology. A physics qualification is not an entry requirement; however, knowledge of physics is helpful to students on the course.
5. The premedical year is designed for two purposes. Very able applicants without a science background are eligible (i.e. those who have not studied either Higher or A-Level chemistry). In addition, up to 6 places each year are available for local school leavers who have evidence of significant social and/or educational adversity.
6. All applications for 2013 must be made through the UCAS website (www.ucas.ac.uk) by 15 October 2012.
7. Applicants for medicine may only list four medicine courses on the UCAS application.
8. Generally, applicants presenting qualifications from countries other than the UK or Ireland are expected to have attained these at a level sufficient for entry to medical school in their home country. It would be helpful if UCAS referees' reports could indicate what these requirements are.
9. Dundee University Medical School requires:
   - all applicants to sit the UK clinical aptitude test (UKCAT); and
   - all applicants (including overseas) to attend for interview prior to an offer of a place.

Dundee has developed its medical school interview process into a series of 'mini interviews'. This is a more valid process and reduces the risk of the whole interview getting off on the wrong foot, which occasionally happens with traditional formats. The same topics are covered but within bite size sections rather than a single discussion. This offers a number of separate opportunities to sell yourself. You can expect to be asked about your understanding of: a medical career, the curriculum here in Dundee and current medical issues in the press, including ethical topics. In addition we will be looking to assess your communication skills and approach towards teamwork. Since its introduction, applicants have expressed a preference for this system.

nursing

minimum requirements

SQA Higher:	**CC** + 3SG
GCE A-Level:	**DD** + 3 GCSE
ILC Higher:	**CC** + 4 Ord
IB Diploma:	**24** points with 4, 4 at HL
Essential subjects:	English and mathematics at least to SG at 3, Int2 at C, GCSE at C, ILC Ord at C, IB SL at 4. Combinations of H/SG, A-L/ GCSE or ILC H/Ord must be in 5 different subjects (6 different subjects for ILC H/Ord).

Satisfactory reference, interview performance, health screening and criminal record search are part of the selection process for all courses.

other qualifications

Please see 'Nursing' on page 140 for details.

pre-registration programmes
(with UCAS Codes)

BSc Adult Nursing	B740
BSc Child Nursing	B730
BSc Mental Health Nursing	B760

See **making your application** on page 32 and please refer to our programme webpage for further information.

what our students say…

"The lecturers are passionate about their subjects, which creates a very positive learning environment. They all reflect back on their own time in practice, recalling befitting stories which helps reinforce learning."

"Being able to relate theory into practice placements and having the opportunity to spend time learning from clients in placements has been valuable."

Final year student comments from the National Student Survey 2011

why study at dundee?

The School of Nursing and Midwifery is part of the College of Medicine, Dentistry and Nursing and is one of the largest nursing education providers in Scotland. The School provides education at campuses in Kirkcaldy (Fife) and in Dundee. Programmes in adult, mental health and child nursing are available in Dundee; adult and mental health nursing are available at the Fife campus. Both campuses provide students with teaching accommodation, clinical skills, library and IT facilities, as well as access to academic staff. All programmes lead to both an academic and professional qualification, including registration as a nurse with the Nursing and Midwifery Council (NMC).

Our programmes reflect the ever changing face of health care in Scotland and address the political and ethical aspects of heath care provision.

Students gain experience in the clinical skills centres and participate in inter-professional learning with medical and other students. A wide range of practice placements are available which provide a diversity of clinical experience to equip students with the skills and knowledge required to be registered practitioners.

Students come from a wide range of backgrounds and join a large international campus with a reputation for good student facilities and social life.

programme content

BSc Nursing is a three year programme and students elect to study one of the following fields of practice: adult nursing, mental health nursing or child nursing.

The degree is three years long and modular in structure. Each year consists of 45 weeks, divided equally between university study and clinical practice within health and social care settings. Students will be required to pass a variety of assessments throughout the programme which will address the theory and clinical practice aspects of the programme.

Adult Nursing

The adult nursing pathway prepares you to care for adults within the National Health Service and the independent care sector. The adult pathway adopts an integrated holistic approach, reflecting the shifting balance of care from acute hospital-based services to primary care services. All nurses are required to understand the NMC public health principles, priorities and practice in order to recognise and respond to the major causes and social determinants of health, illness and inequalities. Long term condition management and enduring health needs, the public health agenda and government policy are integrated with the pathophysiology and disease pathway recognising their interdependence.

Mental Health Nursing
Mental health care in the UK has evolved significantly in recent years through being shaped by values-based, recovery-focused care, as well as refreshed regulatory requirements, national frameworks and evidence-based interventions. The mental health nursing pathway will equip students with skills and competencies required to reflect these evolutions and subsequent challenges of providing effective contemporary mental health care and enabling them to make a difference to the lives of service users and others. The pathway emphasises advanced intra and inter-personal relational capabilities of the mental health nurse to achieve this difference. It is underpinned by a number of key themes including shared capabilities and outcomes across all nursing fields, which are both explicit and implicit within the shared conceptual framework that guides the students' development toward becoming capable, skilled and knowledgeable graduate nurses.

Child Nursing
Students studying child nursing will develop an understanding of the developmental, physical and social needs of children in hospital and at home. Child nurses will work with other members of the multidisciplinary team during placements in hospital wards, community settings and in high dependency areas. They also work with the parents and other family members of the children in their care. The role of the child nurse ranges from promoting health, minimising illness and protecting children who are vulnerable.

The pathway will produce graduate nurses who are able to provide the nursing services that children, young people and families require, in the context of a sound understanding of the genesis and implementation of health and social policy.

teaching and assessment

The School of Nursing and Midwifery has a commitment to excellence in learning and teaching. Assessment is split equally between assessment of theory and assessment of practice to reflect the Nursing and Midwifery Council (NMC) requirement that 50% of the programme is undertaken in practice. Assignments are designed to align with module outcomes, content and teaching strategies.

Additionally the range of strategies covers the spectrum of student learning styles. Assessment of theory uses a variety of strategies including essay, report, literature review, poster presentation, examination, critical incident analysis, care plans and learning packages. Paper-based and online formats are used for some essays and examinations. Practice assessment is competency-based, with assessment undertaken by the student's mentor. Objective Structured Clinical Examination (OSCE) is used to provide a link between theoretical and practice-based assessment.

The nursing curriculum was one of the first approved in the UK under the new NMC standards. You will work together with students from all three fields of nursing throughout the programme, with an increased focus on your chosen field as the programme progresses. Throughout the three years you will develop the nursing skills and knowledge applicable to all fields of nursing.

Practice placements are provided in Tayside and Fife and students are allocated the majority of their placements in the vicinity of their term-time address. Some clinical experience is also gained in placements further afield in order to provide students with exposure to a rich and diverse clinical experience. In particular, child nursing students are required to have placements in Stirling and Inverness.

programme content • typical degree programme example

BSc Nursing degree

Level 1
- Nature of nursing 1
- Physical health and wellbeing
- Mental health and wellbeing
- Adult nursing 1; or Mental health nursing 1; or Child nursing 1
- Skills and practice 1

Level 2
- Adult nursing 2; or Mental health nursing 2; or Child nursing 2
- Adult nursing 3; or Mental health nursing 3; or Child nursing 3
- Nature of nursing 2
- Adult nursing 4; or Mental health nursing 4; or Child nursing 4
- Skills and practice 2

Level 3
- Adult nursing 5; or Mental health nursing 5; or Child nursing 5
- Nature of nursing 3
- Adult nursing 6; or Mental health nursing 6; or Child nursing 6
- Skills and practice 3

what is the best thing about your course?

"Practical placements are my favourite thing as they give me an opportunity to see a variety of different areas I could work in once I graduate. They also allow me to gain confidence in talking to other members or staff and patients and dealing with situations that could occur in the workplace."

Alyson Love, 3rd year student, BSc Adult Nursing

oral health sciences

minimum requirements

SQA Higher:	**BBBB**
GCE A-Level:	**BCC**
ILC Higher:	**BBBB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	Biology (H, A-L, ILC H, HL) and chemistry (SG, Int2, GCSE, Ord, SL).

other qualifications

These are considered on an individual basis.

degree programme (with UCAS Code)

BSc Oral Health Sciences (3 years without Honours) B750

See **making your application** on page 32.

professional accreditation

This programme has full approval from the professional governing body for dentistry in the UK, the General Dental Council (GDC).

This is the first university dental hygiene and dental therapy qualification to be offered in Scotland. The course has full approval from the General Dental Council.

why study at dundee?

Dental hygiene and dental therapy are concerned with maintaining and managing aspects of oral and dental health and preventing oral and dental diseases. This requires an understanding of the whole body, knowledge of the mouth and an appreciation of social influences as well as precise manual skills.

Dental hygienists and therapists are part of the dental team, with dentists, dental nurses and dental technicians. The group comprising dental nurses, hygienists, therapists and technicians are known as dental care professionals (DCPs). Dental hygienists and therapists work to a treatment plan provided by a dentist. They help patients develop and maintain good oral health. They do this by restoring teeth (doing fillings) and, for child patients, they can also carry out extractions, pulp therapy and stainless steel crowns. The treatment of periodontal (gum) disease is also a major component of the work. Their preventive role includes giving advice on diet, oral hygiene and smoking cessation. Other care they can provide is the taking and developing of radiographs and the taking of impressions.

The Dundee Dental Hospital and School has modern clinical, lecture, tutorial and laboratory facilities, including a dedicated computer-aided learning suite. As well as the annual intake of 10 BSc Oral Health Sciences students, there is an annual intake of approximately 60 BDS (dental) students and many of the teaching and learning experiences are shared. The Dental School has a thriving Students' Society, a student-run coffee bar and an excellent programme of student-led social activities.

employability

There is a current shortage of dental professionals in the UK. Once qualified you may choose to work in general dental practice (NHS and private), the community dental service, hospital practice, the armed services or in industry. Current employment levels are very high and remuneration is good.

teaching and assessment

You will be one of ten students that we accept each year. You will get a mix of teaching: in your group of ten and with the BDS (dental) students in groups of up to 70. Teaching will take place in the Dental School and Hospital which is on campus, at Ninewells Hospital in Dundee and in local and regional dental clinics. A variety of teaching methods will be used: lectures, tutorials, practical classes and clinics. Examinations are held throughout the course. A continuous grading scheme is in operation during practical and clinical teaching.

The curriculum for the BSc course follows the curricula frameworks for dental hygienists and dental therapists published by the General Dental Council (*www.gdc-uk.org).*

At **Level 1** you will study the biomedical sciences (anatomy, physiology, embryology, genetics, histology and biochemistry) and learn about the oral cavity in oral biology. Manual skills are also developed and you will start to treat patients in the second semester. The types of treatments carried out at this stage will include giving oral health advice, measuring the oral condition and carrying out periodontal (gum) treatment. Modules in Human Disease 1 (microbiology and pathology) and Plaque-related Diseases (dental caries, gingivitis and periodontitis) provide you with the requisite knowledge to support the clinical care of your patients.

Level 2 sees the introduction of additional clinical skills and you start treating patients for restorative procedures such as dental fillings. The modules underpinning the acquisition of these additional clinical skills and responsibilities include Human Disease 2 (medicine and surgery), Dental Biomaterials and Behavioural Sciences. Dental Radiology and Radiography are also taught to allow you to take and develop dental radiographs (x-rays).

At **Level 3**, you continue with clinical work both within the Dental Hospital and in community outreach clinics. The outreach clinics give you exposure to different population groups. Treatment will include the provision of dental care for children and special needs groups. The associated modules are Dental Public Health (looking at care at a population level), Paediatric Dentistry and Orthodontics and Oral Disease.

The programme consists of a three-year curriculum of 32 weeks at Level 1, 35 weeks at Level 2 and 35 weeks at Level 3. This is longer than normal university semesters.

This course requires that you have a professional attitude, good communication skills and a high degree of manual dexterity. You need to be able to work with and care for people and enjoy being part of a team. All suitable applicants will be interviewed to assess their communication skills, their empathy and professional approach. It is expected that applicants would have an insight into oral healthcare professions.

special requirements

- The BSc course is demanding, both physically and mentally. You will, for example, require sufficient bi-manual dexterity to handle, simultaneously, the necessary equipment to treat patients and a dental mirror to allow you to see what you are doing.
- Dentistry can involve very detailed work under conditions that are often difficult, so you need a steady hand and good vision (with spectacles if need be). You will also be required to interpret hand written patients' notes, examine computer records and images such as radiographs, and distinguish and understand dental and medical terminology.
- If you have a disability that you feel might impact on your ability to meet these demands, you are urged to consult the Dental School as soon as possible in the application process so that we can discuss the implications with you, including any adjustments that can be made to meet your needs. Please contact the School's Disability Support Officer (DSO) – Miss Lorraine Roberson (l.j.y.robertson@dundee.ac.uk) as a preliminary step. Further information on the University's provision for disabled students is available at: *www.dundee.ac.uk/disabilityservices*
- All potential dental/oral health science students are required to undergo screening for blood borne viruses (Hepatitis B and C, and HIV) prior to their place at the Dental School being confirmed. Details regarding testing will be sent to you when you apply.
- With your permission you will be required to undertake a Criminal Record Search. You will not be admitted without having undergone a full medical. You will not be admitted without completing a full course of immunisation against Hepatitis B.

Patient safety is paramount and it is particularly important to consider any difficulties that would compromise this so that we can ascertain what arrangements can be put in place to assist you while guaranteeing that safety.

programme content • typical degree programme example

BSc degree without Honours

Level 1
- > Foundation
- > Biomedical Sciences & Oral Biology
- > Restorative 1
- > Plaque-related Diseases
- > Human Disease 1
- > Clinical Practice 1

Level 2
- > Dental Biomaterials
- > Human Disease 2
- > Restorative 2
- > Imaging
- > Behavioural Sciences
- > Clinical Practice 2

Level 3
- > Oral Disease
- > Paediatric Dentistry and Orthodontics
- > Dental Public Health
- > Clinical Practice 3

philosophy

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None, but see entry requirements for other joint Honours subject.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	None, but see entry requirements for other joint Honours subject.

other qualifications

Please see 'Humanities/Economic Studies' on page 140 for details.

degree programmes (with UCAS Codes)

MA Philosophy	V500
MA European Philosophy	V501
MA European Philosophy with...	
French	VR51
German	VR52
Spanish	VR54
MA Philosophy and...	
American Studies	TV75
English	QV35
European Studies	RV85
Film	VP53
History	VV15
International Relations	VL5G
Politics	LV25
Psychology	CV85
MA Philosophy with…	
French	V5R1
German	V5R2
Spanish	V5R4

See **making your application** on page 32.

why study at dundee?

Philosophy involves being open to new and different responses to familiar and unfamiliar questions. If you ever find yourself thinking about big questions beyond everyday experience - questions that may never have a single, final answer - then you would probably enjoy studying philosophy.

Dundee is unique in Scotland in specialising in continental philosophy. This means we teach philosophy primarily through reading and discussing key texts from the European tradition, including some of the most exciting thinkers of the last century: Nietzsche, Sartre, Foucault, Deleuze, and de Beauvoir, for example. These texts open up important questions about reality, freedom, knowledge and ethics.

We explore how philosophy is important to real-world concerns and contemporary issues by:

- drawing on films and artworks in our lectures
- discussing important scientific developments
- debating controversial ethical issues
- looking at how texts written three hundred years ago can be relevant to political situations today.

You will be encouraged to make links between philosophy and other subjects, such as politics, literature, film, the environment, psychology, and computer science. Specialist modules and independent study options will help you to explore philosophically the topics of special interest to you.

employability

A philosophy degree provides you with intellectual and perceptual skills which are an advantage in the pursuit of any professional career.

Studying philosophy will allow you to:

- Identify and explain the underlying issues in all kinds of debate
- Read closely and identify arguments from a variety of sources and traditions
- Offer clear and rigorous critical responses to arguments
- Summarise and assess points of view which are not your own
- Learn the self-discipline required for independent research.

Employers recognise that these skills are highly transferable. They mark out independent and thoughtful individuals, who are able to solve problems and deal with new situations as they arise.

As well as continuing to postgraduate study, recent graduates have gone on to work in publishing, social work, education, librarianship, the music industry, local councils and the civil service.

teaching & assessment

At Level 1, you will study Plato and Descartes, as well as a variety of thinkers on ethics and the nature of reality. You will attend two philosophy lectures per week, in which teaching staff will introduce you to the major themes of a philosopher or philosophical problem. In your weekly philosophy tutorial, you will further your understanding of the week's topic, ask questions and develop ideas with a tutor and a small group of students. You will engage in independent reading and research with specially designed worksheets and assignments. Your tutor is there to help you if you need advice.

At Level 2 you will study philosophers including Hume, Kant, and Sartre, and topics such as freedom, experience, aesthetic value, and the meaning of life. You can then specialise in Levels 3 and 4 through taking different options including modules on film, literature, politics, and ethics.

You will have the opportunity to study with experts in these fields and to work with them on major philosophers such as Plato, Spinoza, Kant, Nietzsche, Heidegger, Foucault, Bergson, Badiou and Deleuze.

Assessment in philosophy is by coursework essays, tutorial performance, exams and dissertations. We take full advantage of the University's virtual learning environment, MyDundee: on some modules students write online journals, post minutes of tutorials, or take part in online discussions.

For single Honours students the dissertation in Level 4 is the high point, where you put forward and defend a thesis in an area of philosophy of your choice. Recent dissertation topics have involved music, film, the environment, gender, law, evolutionary theory, artificial intelligence, photography, literature and theatre.

what our students say

"Studying philosophy at Dundee has been a very rewarding experience for me, as I followed a programme of study that covered many of the central thinkers of Western thought. As I progressed in my course, the philosophy became more challenging, but the staff are always pleased to explain concepts clearly and thoroughly, and to show the relevance of what we were studying not only to philosophy, but also to other disciplines and to modern life in general."

4th year student, MA (Hons) Philosophy

programme content • typical degree programme example

Please refer to the **MA degree structure and overview** on page 135.

MA Honours degree →

Advanced entry MA Honours degree →

Level 1

A total of 6 modules, including at least one of:

- Plato and the Good Life
- Descartes, Thought and Reality

Level 2

A total of 6 modules, including at least one of:

- Hume and Recent European Philosophy, Problems of the Self*
- Aesthetics and Kant

Level 3

A total of 4 modules (2 modules for joint Honours)

A selection of the following modules will be available in any one year:

- Aesthetics of the Sublime*
- Foucault, Power and Violence*
- Gender, Feminism and Political Theory
- Kant's Critique of Pure Reason*
- Philosophies of History*
- Philosophy and Antigone
- Question of Vision in Art and Philosophy*
- Spinoza and Free Will*

Level 4

A total of 4 modules (2 modules for joint Honours)

A selection of the following modules will be available in any one year:

- Dissertation (compulsory for single Honours students)
- Deleuze*
- Marx's *Capital*
- Nietzsche's *Beyond Good and Evil**
- Philosophy of Time
- Thinking Film*
- Understanding, Dialogue and Interpretation*

Note: For details of Film Studies modules (for MA Philosophy and Film) please see English/Film Studies on page 88.

Students on the European Philosophy programme must take 'Hume and Recent European Philosophy' at Level 2 and specialise in European Philosophy at Levels 3 and 4. European Philosophy modules are marked with an asterisk*.

physics

minimum requirements

SQA Higher:	**AAAB**
GCE A-Level:	**ABB**
ILC Higher:	**AAAB**
IB Diploma:	**32** points with 6, 5, 5 at HL
Essential subjects:	Mathematics and a science or engineering subject (H, A-L, ILC H, HL). Physics for MSci.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **AB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Mathematics and physics (AH, A-L, HL).

other qualifications

Please see 'Engineering, Physics and Mathematics' on page 140 for details.

degree programmes (with UCAS Codes)

MSci Physics	F303
BSc Applied Physics	F310
BSc Physics	F300
BSc Physics and...	
Mathematics	FG31
Microelectronics	FH3Q

See also degrees in:
Electronic Engineering and Physics (page 86)

See **making your application** on page 32.

why study at dundee?

Physics, the most fundamental of all sciences, involves the exploration of nature in the broadest possible sense. Physicists study the behaviour and properties of matter and energy in a huge variety of contexts, ranging from the sub-nuclear (particle physics) to the behaviour of the material Universe as a whole (cosmology). The goal is to uncover the fundamental truths about nature and where possible, to exploit that basic knowledge for the benefit of mankind.

Research undertaken at Dundee has had a tremendous impact on the modern world.

- The electronic devices driving pixels in virtually all laptop computers were first conceived and made here.
- Ground-breaking work on satellite-borne environmental monitoring was also initiated here, as well as seminal investigations into molecular structures using x-ray analysis.

Our current staff are working in some of the most exciting areas of cutting-edge physics. Many such areas are also those earmarked by the government as the critical scientific topics for the future: renewable energy and the environment; robust sensors; and physics applied to medicine and biology. To that end we use the most powerful microscopes available, each capable of resolving individual atoms, to characterise and develop materials such as the next generation of energy efficient solar cells. We explore the boundaries of biophysics and laser science, especially in medical contexts where the University of Dundee as a whole boasts a world renowned reputation. Biophysics research is undertaken at state-of-the-art facilities within the University's Institute for Medical Science and Technology and also at Ninewells Hospital.

One unique aspect of life as a physics undergraduate at Dundee is the facility to not only undertake a major research project in the Honours year, but to become directly involved with the active research groups in Level 1: a fast-track route to applying the knowledge and skills that we will teach you.

employability

The prospects for physics graduates are excellent. As one of our graduates, the analytical and problem solving skills that you will have gained, together with practical abilities on state-of-the-art instrumentation, will allow entry to a diverse spectrum of job possibilities. Many of our graduates now work for technology companies involved in the design and manufacture of electronic and optical devices. In addition, it is possible to develop industrial careers in defence, micro-electronics, medicine, semi-conductors, communications, research and development, IT, optoelectronics and education.

teaching and assessment

Physics at Dundee is comfortably small and friendly with a relaxed atmosphere. Our formal teaching methods involve a combination of traditional lectures and tutorials, together with new and innovative multi-media based activities and practical laboratory sessions. All students are IT trained so as to gain maximum benefit from the advanced computing resources, and also to develop transferable skills.

The Dundee physics degree is structured around an essential core of material that seeks to establish firm foundations in the subject. Here, you will meet subjects such as relativity, mechanics, electro-magnetism, and quantum mechanics, before moving on to the exciting areas of particle physics, astronomy, cosmology and optoelectronics. We will also develop your programming skills via modules in computational physics. Several of our modules are taught by staff who are internationally known as authorities in their respective research fields.

In addition to the traditional four-year BSc Honours and joint Honours degree programmes, we also offer the new professional degree, the five-year MSci.

what's so good about physics at dundee?

Our degree programmes offer considerable flexibility depending on your interests and career plans.

what is the best thing about your course?

The physics department, which works closely with electronic engineering and renewable energy, is relatively small, but therefore very concentrated. This means that there are plenty of excellent and empathetic staff members available to students, and so you feel welcomed, unique, appreciated, and important from the first day of first year until graduation comes around.

David Bajek, graduated in 2011 with BSc (Hons) Physics

programme content • typical degree programme example

BSc Honours degree (4 years) →

MSci Honours degree (5 years) →

Advanced entry BSc Honours degree (3 years) →

Advanced entry MSci Honours degree (4 years) →

Level 1

- Astronomical Phenomena
- Electricity, Optics and Waves
- Mechanics and Thermodynamics
- Professional Skills
- Science and Engineering Mathematics

Level 2

- Analogue and Digital Electronics
- Computer Algebra and Dynamical Systems
- Electricity & Magnetism
- Introducation to Modern & Solid State Physics
- Mathematics
- Optics, Waves & Thermodynamics

Level 3

- Advanced Optics
- Electricity and Magnetism
- Mathematical Methods
- Nuclear and Particle Physics
- Physics Laboratory Work
- Quantum Mechanics
- Thermodynamics
- Advanced Professional and Transferable Skills

or

- A joint Honours subject option

Level 4

- Computational Physics
- Materials
- Optoelectronics and Photonics
- Physics Project (over both semesters)
- Relativity and Cosmology
- Solid State Physics
- Statistical Mechanics

Level 5 (MSci only)

- Applied Electromagnetism
- Advanced Photonics
- Computational Physics II
- Introduction to Independent Research
- Quantum Mechanics II
- Research Project

Please visit our programme webpage for notes on programme progression.

politics & international relations

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None, but see entry requirements for other joint Honours subject.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	None, but see entry requirements for other joint Honours subject.

other qualifications

Please see 'Humanities/Economic Studies' on page 140 for details.

degree programmes (with UCAS Codes)

MA Politics*	L200
MA International Relations and Politics	L250
MA European Politics*	L245
MA Geopolitics	L246
MA Politics and…	
American Studies	LT27
Business Economics and Marketing	L0N0
Economics	LL12
English	LQ23
Geography	LL72
History	LV21
Philosophy	LV25
Psychology	CL82
MA International Relations and …	
American Studies	LT2R
Economics	LLD2
European Studies	LR28
History	LV2C
Philosophy	VL5G

* Also available with French, German or Spanish please visit our programme webpage for UCAS codes.

See **making your application** on page 32.

why study at dundee?

At Dundee we have a particular focus on European and transatlantic politics and, more generally, on the politics of security. However, the modules we offer cross the entire range of politics as a field of study.

Politics at Dundee takes pride in looking beyond the University itself. We regularly host speakers from the 'real world' of Scottish, British and international politics, including MPs and MSPs, American Foreign Service Officers and Government Ambassadors. Additionally, where possible, we encourage and assist students who wish to take up internships with the Scottish Parliament and Government and other bodies.

Our students also have the opportunity to take part in the Erasmus exchange programme with institutions in Denmark or Poland, or our Transatlantic Student Exchange to Australia, Canada, Hong Kong and USA.

We believe strongly in integrating our groundbreaking research with our teaching, and in areas such as Scottish politics, Russian politics, EU politics or international security you will benefit from being taught by a leading expert and author in that field. Two internationally recognised scholarly journals are edited by our politics staff: '*The Journal of Transatlantic Studies' and 'Perspectives on European Politics and Society'*.

While politics at Dundee is big enough to have a real international presence, it is still small and intimate enough to offer a friendly and responsive home for students from all backgrounds. This is more than a mere claim - independent surveys consistently rate politics at Dundee as among the best-received programmes in the country.

In Level 1 you will take modules which focus on areas such as 'policy' and 'ideology'. This prepares you for the more specialised offerings on International Relations and Comparative Politics in Level 2. Later, in Levels 3 and 4 you will take more specialist modules (selected according to your particular degree pathway). These cover the territorial politics of the world, issues of peace and war and of crime and terrorism as well as the 'politics of the personal' in the sense of identity.

employability

Politics graduates from Dundee score highly in surveys of graduate employment. While you may not become a politician (though many of our students over the years have: as MPs, MSPs and MEPs), your degree will open up a range of opportunities in both the private and public services. In other words, the skills - personal, verbal and written - that you will acquire in your politics programme can be easily transferred to many walks of life. We have produced leading journalists, aides to First Ministers, civil servants, financiers, diplomats - and even the occasional secret agent!

teaching and assessment

Teaching on politics modules at Dundee usually takes the form of lectures and seminars (sometimes called tutorials). The lectures (one or two weekly) are designed to convey the essential information, concepts and theories associated with a particular topic.

While all the students on a particular module will attend the lecture, the seminar is a smaller group - normally around ten to fifteen in number. At the seminar the lecture topic will be explored in more detail, perhaps through group work or individually prepared presentations.

Your performance on modules is assessed by a wide variety of means - from formal exams where you answer essay type questions from a previously unseen paper to 'seen' exams where you know the questions in advance but still must answer them in timed exam conditions. Prepared essays on a specific topic are also part of the assessment of almost all modules. Additionally, seminar presentations may be marked and included in the overall assessment. As a general principle, modules will involve a mixture of assessment techniques in order to achieve an all-round picture of your abilities and to give you a chance to shine in the type of test that suits you best.

programme content • typical degree programme example

Please refer to the **MA degree structure and overview** on page 135.

The politics and international relations programme is currently under review (Dec 2011) and we have given details of the likely programme content in 2013 below. Please refer to our webpages which will provide more specific information when our review process is finalised: *www.dundee.ac.uk/prospectus/politics*

MA Honours degree →

Advanced entry MA Honours degree →

Level 1

A total of 6 modules, including:

- Politics and Policy (compulsory) and 5 other modules which might include:
- Introduction to Political Ideologies
- The Globalising World

Level 2

A total of 6 modules, including:

- Comparative Politics (compulsory)
- International Relations (compulsory)
- The Globalising World

Level 3*

A total of 4 modules (2 modules for joint Honours), including:

- Theorising Politics (compulsory for single Honours Politics and joint Honours Politics and International Relations) and other modules chosen from:
- Collapse of the Soviet Union
- Contemporary Politics in Ireland
- Contemporary Politics in the UK
- European Union Politics
- The Politics of War and Military Intervention
- Politics of Transatlantic Relations
- Governing the USA

Level 4*

A total of 4 modules (2 modules for joint Honours), including:

- Dissertation (compulsory for single Honours) and other modules chosen from:
- Gender, Power and Sexuality
- International Political Economy
- International Politics of Crime and Terrorism
- Marx's Capital
- Philosophy of Peace and War
- Russia in Transition
- US Foreign Policy since 1945
- The Global Politics of Illegal Drugs
- Surveillance in a Post 9/11 World

In the 2011 National Student Survey we were ranked 1st in Scotland & joint 1st in the UK with 100% of our students saying they were satisfied with the quality of the course

*Not all modules are available every year

For details of the programme content for degrees in International Relations and Politics, Geopolitics and European Politics, please visit our programme webpage.

product design

minimum requirements

SQA Higher:	**BBBB**
GCE A-Level:	**BCC**
ILC Higher:	**BBBB**
IB Diploma:	**30** points
Essential subjects:	One or more from art & design (or other creative subject); product design; an appropriate technical subject (eg computing, information systems) plus an appropriate literate subject (H, A-L, ILC H, HL).

advanced entry (to Level 2)

SQA Advanced Higher:	**BB** (AH) + **BB** (H) in different subjects
GCE A-Level:	**ABB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	One or more from art & design (or other creative subject); product design; an appropriate technical subject (eg computing, information systems) plus an appropriate literate subject (AH, A-L, HL).

selection notes

We are keen to see examples of creative work (digital, photographic, product, hand made, hand-drawn etc).

Applicants will be invited to attend an interview and visit the studios.

other qualifications

Please see 'Art and Design' on page 138.

degree programme (with UCAS Code)

BSc Product Design W240

See **making your application** on page 32.

> This course equips some of Britain's best students to grapple with 'design briefs' in refreshingly novel ways.
>
> *Dr Tim Regan, Microsoft Research*

why study at dundee?

We are an award winning product design programme with success in a number of national and international competitions and expeditions – from D&AD global student awards, to exhibition success at New Designers and Tent London, and to industry awards from NCR and Microsoft.

In addition to project-based studio activity, we will give you the opportunity to witness design in practice in industry in the form of lectures, field trips and company visits. We also run a number of projects as a live client, where the brief is set by industry. In order to deepen your understanding of design in practice we encourage and help you to find summer placements with companies.

Product design at Dundee will train you to design products that work - products people can get their hands on, play with, admire, tell people about and ultimately want as their own. We don't think that it is all about products that work though, our students are taught how to find out what people want, to understand their needs and to design products for them. Our aim is to develop designers who can explore existing and emerging technologies in a playful way and use them as a creative medium throughout the design process. We are particulary interested in exploring the roles that digital technology plays in people's everyday lives.

In our studios we will work with you so that you can become part of the next generation of leading edge designers that are comfortable programming electronics, talking to people, making models or rendering in CAD. It is not about presenting ideas of what a product might be, or building a technical prototype of how a product might work – we will help you to develop the skills to respond to people's needs and design products that work.

Through our Erasmus exchange programme our students are also able to study abroad with partner universities for either one or two semesters. We also take overseas students from partner universities into our course for the same period. This has proved to be hugely successful with students studying in Italy, Spain and Canada.

employability

Employability is the fundamental driver for our course. We pride ourselves on building strong relationships with employers throughout our students' education, enabling a smooth and quick route to industry and further academic training on graduation.

Our graduates are employed as product designers, service designers and interaction designers across the globe for companies such as Lego, Orange, Nokia, Alpkit, Microsoft and NCR.

teaching and assessment

Key to the philosophy of BSc (Hons) Product Design is an interdisciplinary approach to teaching and learning. This means that students are taught modules in both design and technology subjects. You will have technology lectures and labs alongside design lectures and product design studio classes. Staff on the course work closely with you to help you use a range of acquired skills through a carefully tailored programme of product design projects. In Levels 3 and 4 you can tailor your individual learning programme through a suite of elective modules. The course aims to give you the space to be trained but importantly to build the kind of strong product design portfolio that employers are looking for.

Another unique feature of Product Design is the close relationship that we share with the Digital Interaction Design course at the University of Dundee. Facilitated by some shared modules you will have the opportunity to design great new experiences through physical objects and also begin to understand and develop digital interactions, which may be embedded within products or be screen-based.

Typically, assessment in the design modules is through designed products, services or interactions which are presented to the class. You are trained and encouraged to present in a range of formats in such a way that you are given a good grounding in graphics, media (web-pages, blogs, short-films) prototyping and verbal skills. In technology modules, assessment is through a mixture of coursework (technical reports), exams and team practical projects. Through this variety of ways of assessing we build your skills and confidence in the life-long skill of presenting your thinking and skills to an audience.

what our students say…

"Following my product design degree at Dundee, I feel that I am more confident in presenting my work and my knowledge of engineering and the technical side of design has improved."

Comment from final year student from National Student Survey

what our graduates are doing

Tom Metcalfe graduated in 2009. He is a Production Designer for rAndom International, a company that develops projects and installations that emphasise the interaction between audience and inanimate object.

Lynsey Duncan (2007) is a Usability Analyst for international telecommunications company Orange.

what employers say

"The Product Design degree produces students who have a rounded view of the design world."

Rory Hamilton, Head of Insights, LivelWork

what our graduates say

Lee Murray graduated in 2010. During his final year he was offered an internship at Nokia Design in London and he has been there ever since designing and building fully working prototypes for the user experience department. He says, "My best experience on this course was having the opportunity to present a product concept in front of three hundred people at the Microsoft headquarters in Seattle, USA. To see what other courses around the world were doing and to meet some of the best minds in the country was amazing!"

programme content • typical degree programme example

BSc Honours degree →

Advanced entry BSc Honours degree →

Level 1

Product Design Practice

> Fundamentals of Product Design

Design Studies

> Visual Expression

Technology

> Mechanics and Thermodynamics and Design Technology (Materials)

Level 2

Product Design Practice

> Industrial Design and Interaction Design

Design Studies

> Contexts/ Stakeholders and Structuring Creativity

Technology

> Software Engineering (CAD and microcontrollers)

> Structural Design and Manufacturing

Level 3

Product Design Practice

> Design Research

> Design Products

Design Studies

> Design Futures and Professional Practice

Technology

> Engineering Design

Level 4

Product Design Practice

> Design Portfolio Project

Electives

> Business Innovation for Designers

> Advanced CAD

> Design Dissertation

psychology

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None, but see entry requirements for other Joint Honours subjects.

Note: BSc applicants who wish to choose modules from the School of Life Sciences in Level 1 must ensure they also satisfy their entry requirements - see page 56.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Psychology (AH, A-L, HL).

other qualifications

Please see 'Psychology' on page 140 for details.

degree programmes (with UCAS Codes)

MA Psychology*	C801
MA Psychology and...	
American Studies	CT87
Business Economics with Marketing	LNC0
English	CQ83
European Studies	CR88
Geography	CL87
History	CV81
Philosophy	CV85
Politics	CL82
BSc Psychology*	C800
BSc Psychology and...	
Applied Computing	CG84
Mathematics	CG81
BSc Computing and Cognitive Science	GC48

*MA and BSc Psychology are also available with French, German or Spanish. Please visit our programme webpage for UCAS codes.

See **making your application** on page 32.

professional accreditation

Our degrees are accredited by the British Psychological Society.

why study at dundee?

What makes us who we are? Is it the way our brains function? Is it how we are brought up? Or is it the society we live in? As a psychology student you will learn how to use a wide variety of approaches to answer these questions and will have the opportunity to play an active part in furthering our understanding of the human mind and behaviour.

At Dundee you will be a part of a vibrant School in which teaching and research are carried out at world class standards. We are committed to a teaching environment of the highest possible standard and independent surveys show that both the quality review bodies and our students believe we are achieving it.

All of our lecturers are actively involved in internationally recognised research. We feel that this is very important for your degree. The science of psychology is constantly changing as new discoveries are made and so it is vital that you are taught the latest theories and developments in the subject.

Our School is well equipped with dedicated computer labs and a common room for our students to socialise and relax. Students are encouraged to become involved in all aspects of the life of the School with apprenticeship and mentorship schemes, an active School forum, and residential trips for staff and students. We also have a very active and popular undergraduate psychology society (DUPS), run by the students, for the students.

employability

Our psychology degree gives you fantastic preparation for a wide range of careers. So whether you want to pursue a career in psychology or not, our degree offers an unrivalled set of transferable skills. Psychology graduates are valued by employers for their ability to think critically, handle data and present information. The communication skills you will learn will also be invaluable in any walk of life.

We also run a successful research apprenticeship scheme in which students are trained to be a research assistant and will conduct psychology research with a member of staff. The aim of the scheme is to provide students with valuable work and research experience. The transferrable skills you will gain from this will improve your CV and help your job prospects.

There are a wide range of careers within psychology that you can follow after your degree including:

- Clinical Psychology
- Counselling Psychology
- Educational Psychology
- Forensic Psychology
- Health Psychology
- Neuropsychology
- Occupational Psychology
- Sport and Exercise Psychology.

For most of these professional psychology careers you will need to do a postgraduate degree. Entry into these programmes requires that your degree is recognised by the British Psychological Society. Our degrees have this recognition.

However, our graduates have also entered into a wide range of careers outside of psychology including:

- Nursing
- Teaching
- Human Resources
- Management
- Marketing
- Sales and Advertising
- Civil Service.

teaching and assessment

In addition to attending lectures throughout your degree, you will have the opportunity to:

- take part in small group discussions in seminar sessions led by members of staff
- gain research skills during practical classes
- develop your communication skills through essays, technical report writing and oral presentations.

Although written examinations are the principal form of assessment, coursework also forms an important part of your degree. More information about assessment throughout the four levels can be found on the programme webpage.

what's so good about psychology at dundee?

The structure of the psychology classes has enabled me to really develop my communication skills. Prior to this year I have never really contributed to discussions, but I feel I can now voice my opinions with confidence.

Final year student comment from the National Student Survey

programme content • typical degree programme example

Please refer to the **degree structure and overview** pages for the **MA** (page 135) and **BSc** (page 134).

MA/BSc Honours degree →

Advanced entry MA/BSc Honours degree →

Level 1

Level 1 provides the fundamental grounding that you need to become a psychologist:

> Introductory Psychology 1: Social Psychology; Learning and Memory; Individual Differences; and Science and Psychology

> Introductory Psychology 2: Cognition; Biological Psychology; Developmental Psychology

Level 2

Armed with the fundamentals, you can now explore more detailed aspects of psychology:

> Neuropsychology and Language - Human Performance

> Perception and Development - Cognitive Development, Visual Perception, Social Development

> Research Skills for Psychologists - Critical Thinking, Research Methodology in Psychology, Statistical Analysis for Psychologists

Level 3

The knowledge and skills gained from the first two years can now be consolidated and extended. You will study courses covering the latest developments in fields such as:

> Cognition

> Biological Psychology

> Social Psychology

> Individual Differences and Abnormal Psychology

> Language

> Developmental Psychology

> Research Skills

Level 4

At this last stage in your training as a psychologist you will not only learn about topics at the forefront of current psychological knowledge, but also be able to contribute to this fast-moving research community. You will be able to choose three advanced and specialised courses taught in small group seminars, which address topics at the frontiers of contemporary psychological research.

You will also carry out an investigation of a topic of your own choice under the guidance of a member of staff, which you will write up as a dissertation.

renewable energy

minimum requirements

SQA Higher:	**AAAB**
GCE A-Level:	**ABB**
ILC Higher:	**AAAB**
IB Diploma:	**32** points with 6, 5, 5 at HL
Essential subjects:	Mathematics and a science or engineering subject (H, A-L, ILC H, HL). Physics for MSci.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **AB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	Mathematics and a science or engineering subject (AH, A-L, HL). Physics for MSci.

other qualifications

Please see 'Engineering, Physics and Mathematics' on page 140 for details.

degree programmes (with UCAS Codes)

BSc Renewable Energy	H221
MSci Renewable Energy	H224

See **making your application** on page 32.

why study at dundee?

Renewable energy technologies such as hydroelectricity, solar power, biomass, wind energy and tidal turbines are now fundamental to the growing global effort to combat damaging climate change. A career in renewable energy is both rewarding and a positive contribution to the fight against global environmental damage.

At Dundee our degrees emphasise real-life engineering practice and research methodology through extensive practical projects chosen to match your career objectives. They reflect both experimental and theoretical aspects of the subject.

Our staff are professional engineers and scientists, and are actively engaged in research work as well as teaching. They have a strong research presence in key technology fields such as renewable energy, nanotechnology and advanced materials, and they have contributed much to the advancement of science and engineering on the international stage. You will have the opportunity to get involved with our research projects as part of the Undergraduate Research Club from Level 1 onwards.

We offer renewable energy degrees which cover virtually every aspect of the wide range of technologies that you will encounter in a professional career in this field. Our degree programmes are closely linked with the BEng/MEng Electronic and Electrical Engineering degrees, making it possible for you to swap between programmes up to the end of Level 2 as new interests develop and it becomes clearer to you what sort of professional career you intend to follow.

Our teaching unit is of medium size and as a result the study environment is friendly and informal. While you are at Dundee you will get to know all of our staff as individuals and we, in turn, will be taking a genuine interest in your progress and successes, guiding your studies and encouraging your enthusiasms.

The degrees are offered at both BSc Honours and MSci Honours level. The MSci takes one year longer than the BSc because it provides more experience of the world of industry and research and thus provides a preferred route to professional registration and higher academic studies. The BSc is the preferred route for those seeking immediate graduate employment.

employability

The renewable energy industry is simply exploding in size throughout the world and offers a wide variety of employment opportunities. It is a major high technology industry in the UK with a significant demand for graduates with specialist skills. Furthermore, our students can work confidently in any career in which a sound ability in mathematics, computing, or administrative organisation is required, on top of their skills in the science and technology of energy.

So apart from the mainstream commercial activities such as wind turbines and solar cells, biomass and energy conservation, we also see our graduates taking up careers in financial management, broadcasting, with the civil service, and with the police and armed services. You will find that a Dundee engineering degree opens the door to a surprisingly wide range of career opportunities.

teaching and assessment

Our teaching uses enhanced resources in the form of state-of-the-art laboratories and expertise in areas such as solar cells and nanotechnology.

Most teaching takes place in small groups with easy access to staff and a personal approach to lectures, tutorials, and practical work. Guidance is available to you throughout your programme of study to ensure that you make good progress.

A variety of assessment methods is used, so in some cases we will ask you to submit coursework and laboratory reports, in others you will take examinations, and sometimes we will simply ask you to discuss what you have achieved.

All BSc students undertake a research project in their final year of study, under the supervision of a member of staff. Previous projects have included:

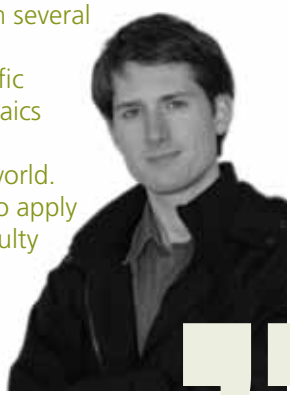
- carbon footprints for companies/buildings
- battery technology for transport use
- integration of large scale wind power.

Your final degree award will depend mainly on your achievements during the later levels of study. For the BSc Honours degree the final award includes a 50% carry-forward from Level 3. For the MSci Honours degree, there is a 30% carry-forward from Level 4.

what our graduates say

This course is still young, but has already established itself as an influential force on campus and beyond. It provides core knowledge from several disciplines as well as a specialist understanding of industry-specific disciplines, from solar photovoltaics to fuel cells, giving its students a competitive edge in the real world. Renewable energy students who apply themselves have very little difficulty in being offered good jobs and highly coveted PhDs.

Euan McTurk, graduated in 2011 with MSci Renewable Energy



programme content • typical degree programme example

BSc Honours degree (4 years) →

MSci Honours degree (5 years) →

Advanced entry BSc Honours degree (3 years) →

Advanced entry MSci Honours degree (4 years) →

Level 1

> Electricity, Optics and Waves
> Engineering Mathematics
> Mechanics and Thermodynamics
> Professional Studies
> Project
> Renewable Energy

Level 2

> Electrical & Mechanical Systems
> Energy Physics
> Engineering Mathematics
> Engineering Software
> Fundamentals of Electronic Devices
> Geomechanics

Level 3

> Atomic and Nuclear Physics
> Civil Engineering Materials and the Environment
> Electromagnetics with Transferable Skills
> Fluid Mechanics
> Mathematical Methods
> Power Engineering
> Renewable Energy Laboratory
> Solid State Physics
> Thermodynamics

Level 4

> Chemical Energy
> Nuclear Power
> Power Station Engineering and the Grid
> Remote Sensing Systems
> Solar Energy
> Wind and Marine Energy

\+ Individual Project

Level 5 (MSci only)

> Advanced Renewable Energy Topics
> Professional Studies
> Reflective Assignment

\+ Individual and Group Projects

social work

minimum requirements

SQA Higher:	**ABB/BBBC**
GCE A-Level:	**AB/CCC**
ILC Higher:	**BBBC**
IB Diploma:	**29** points with 5, 5, 4 at HL
Essential subjects:	A literate subject (H, A-L, ILC H, HL) plus mathematics (SG at 2, Int2 at C, GCSE at B, Ord at A, SL at 5).

other qualifications

Please see 'Education, Social Work and Community Education' on page 138 for details. Other qualifications should include Higher English, or equivalent, and Standard Grade Mathematics at credit level, or equivalent. Students with relevant qualifications and experience may be eligible for advanced entry and will be considered on an individual basis.

advanced entry

Direct entry to Level 2 of the programme may be considered where the applicant can provide evidence of the appropriate level of qualifications and experience. This would be discussed at the point of application.

selection notes:

1. All successful applicants may be interviewed.
2. An Enhanced Disclosure Scotland Criminal Records check will be conducted along with registration with SSSC prior to final acceptance.
3. Experience of voluntary or paid work in social care or a related field is very desirable.

degree programme (with UCAS Code)

BA Social Work L500

See **making your application** on page 32.

professional accreditation

This programme is accredited by the Scottish Social Services Council (SSSC) and is recognised by all the UK social work registering bodies.

We were ranked Top in Scotland and in the UK Top 10 for social work graduates successfully securing graduate level employment or going onto further study.

Times Good University Guide 2012

why study at dundee?

The Times Good University Guide 2012 rated our social work programme as first out of the seven social work programmes in Scotland for graduates finding graduate-level employment and/or further study. This may be due to several unique features of our programme:

- We have very strong links to local agency partners who provide us with Practice Learning Opportunities for students.
- We have a clear focus on looking ahead to finding employment in the final year.
- We have a reputation for producing good quality graduates.
- We collaborate closely with our Service Users and Carers group. Service users and carers are involved in the selection of students, in teaching and in many other aspects of the programme.
- Finally, we pride ourselves on our inter-disciplinary modules which form a core part of the programme and which focus on working together to achieve social justice. The worth of this approach has been formally recognised by the award of a university prize for innovation.

Social workers' day-to-day work supporting individuals, families and communities is fundamental to the operation of successful, just and participative societies. At the University of Dundee we approach social work from a social justice perspective, always aware of issues of human rights and of the disadvantages many people encounter in our society.

Social workers are often involved in complex and sometimes difficult situations. They are also involved in rewarding and meaningful work. At the University of Dundee you will learn the skills to equip you to successfully work with the wide range of social problems encountered in social work settings as well as the skills to engage far more widely with people in all sorts of circumstances.

Our programme draws heavily on the expertise of users of social work services and carers, as well as wider stakeholders such as local authority, third and private sector staff. Users of social work services inform many aspects of the programme including recruitment, teaching and assessment.

Our exciting and vibrant 4 year Honours degree programme is endorsed by the Scottish Social Services Council (SSSC), and on successful completion of the programme you will graduate with a professionally recognised qualification allowing you to work in, and beyond, any social work setting.

Our programme offers a range of Practice Learning Opportunities in various settings and with various service-user groups including children and families, offenders, older adults, people with physical and learning disabilities, people with mental ill health and people who misuse substances. Students often tell us that the learning and experience they gain from practice learning remains with them forever.

employability

The ongoing need for qualified social workers means that the vast majority of graduates find attractive posts within a short time of leaving university. You may find that you can secure employment within one of your placement agencies in advance of finishing your studies. Dundee graduates in recent years have risen to the highest professional levels in social work and related agencies.

Since social workers are employed in a wide range of community and group care settings, providing services for most social groups, there is scope to pursue a career in line with your particular interests. The programme provides you with a generic qualification which will allow you to work across all social work contexts.

teaching and assessment

A variety of teaching methods is used throughout the programme and the emphasis is on experience and participation. You will learn in both individual and group contexts and, with the help of tutorial staff, you are expected to take appropriate responsibility for identifying and seeking to meet your own individual needs in light of previous learning and experience. The skills of working effectively with others in collaborative practice are emphasised strongly throughout the degree.

In addition to lectures and seminars, you will be involved in 'Enquiry and Action Learning', role-play, video work and practical exercises on interpersonal and group skills training. Your learning will be enhanced using the latest techniques in simulated practice and information and communications technology. A range of on-line materials will be used to enhance the learning opportunities available, allowing you to easily access material outside the classroom setting.

Some of the richest learning experiences you will have on the programme involve spending time on Practice Learning Opportunities.

In Levels 2 and 4 you will spend significant amounts of time in real settings working alongside service users and staff, and undertaking real social work. Your learning will be supported by a Practice Educator, your tutor and agency staff.

Assessment is predominantly concerned with assignments drawn from coursework which are designed to build your knowledge and skills base progressively and systematically. Social work practice is also assessed on Practice Learning Opportunities, as are the written assignments generated by the experience.

what's so good about social work at dundee?

I believe the course has an effective learning process, balancing practical and theoretical knowledge and understanding of social work practice. I appreciate the efforts of lecturers and it is evident they have a passion for the subject being taught.

Final year student comment from the National Student Survey

what is the best thing about your course and why?

The content is very interesting and it is easy to see how important social work is and how it can be applied in practice. The tutors are very supportive too.

Steve Anderson, 3rd year student – BA Social Work

There's a real sense of community between students and lecturers. Studying social work can be quite demanding but rewarding at the same time. The practice placements make it all worthwhile.

Liane McGovern, from Middlesbrough, 3rd year student – BA Social Work

programme content • typical degree programme example

BSc Honours degree →

Advanced entry BSc Honours degree →

Level 1

- Reflective Practice 1
- Working Together to Achieve Social Justice 1
- Formation of Social Work
- Communication
- Assessing Human Behaviour in the Social Environment 1

Level 2

- Reflective Practice 2
- Social Work Law and Practice
- Practice Learning 1
- Social Policy
- Working Together to Achieve Social Justice 2

Level 3

- Reflective Practice 3
- Models and Methods of Intervention
- Reading, Understanding and Applying Research
- Assessing Human Behaviour in the Social Environment 2
- Working Together to Achieve Social Justice 3

Level 4

- Reflective Practice 4
- Professional Practice
- Practice Learning 2

For information on professional development and distance learning programmes offered in this area, please visit www.dundee.ac.uk/prospectus/distance

town & regional planning

minimum requirements

SQA Higher:	**AABB**
GCE A-Level:	**BBB**
ILC Higher:	**AABB**
IB Diploma:	**30** points with 5, 5, 5 at HL
Essential subjects:	None, but see entry requirements for other Joint Honours subjects.

advanced entry (to Level 2)

SQA Advanced Higher:	**AB** + **BB** (H) in different subjects
GCE A-Level:	**AAB**
IB Diploma:	**34** points with 6, 6, 5 at HL
Essential subjects:	MA Geography and Planning: geography (AH, A-L, HL). MA Spatial Economics and Development: economics and geography (AH, A-L, HL).

Note: Advanced entry to MA Town and Regional Planning is not available on the basis of Advanced Highers or A-Levels but a relevant HND with some merits in final year will be considered.

other qualifications

Please see 'The Environment' on page 140 for details.

degree programmes (with UCAS Codes)

MA Town and Regional Planning	K410
MA Geography and Planning	LK74
MA Spatial Economics and Development	LK14

See **making your application** on page 32.

professional accreditation

The MA Town and Regional Planning is fully accredited by the Royal Town Planning Institute (RTPI), the planners' professional body, which means you can go on to become a chartered planner.

In the National Student Survey 2011 we were ranked No. 1 in Scotland and No.4 in the UK for student satisfaction. 91% of our students were satisfied with the quality of the course.

why study at dundee?

Planning is about creating quality places where people want to live and work. It is an exciting and creative profession that links a diverse range of subjects, including building design, sustainable development, urban regeneration, community engagement and much more.

Dundee is a long established centre of excellence for professional planning education. It is an ideal place to study for a planning qualification as the City of Dundee and its rural surroundings offer excellent case studies of innovative planning practice. The Dundee Central Waterfront Master Plan and the Mill O'Mains Community Regeneration Master Plan are two local examples of best practice.

Our staff are engaged in research of national and international importance in the fields of housing and homelessness, urban regeneration, environmental assessment and urban conservation.

Students have the chance to undertake some of their studies in North America, through a planning exchange programme with the University of North British Columbia in Canada, and via the University's Transatlantic Student Exchange programme, which allows students to study in a range of universities across the USA and Canada.

employability

We maintain close links to the planning profession and our graduates find work in Scotland, the rest of the UK and abroad. As well as traditional planning jobs in central and local government, our graduates are employed by planning consultancies, regeneration companies, house builders, supermarkets and utility companies.

Planners perform a variety of tasks such as:

- preparing national and regional development strategies
- taking action to address climate change
- regenerating declining urban areas
- shaping new and sustainable housing
- protecting and enhancing historic buildings
- promoting biodiversity
- conserving sites of nature conservation value
- negotiating with property developers
- engaging with local people.

The MA degree in Town and Regional Planning provides students with a sound knowledge and understanding of the built and natural environment and a range of transferable skills such as problem solving, IT, communications and team work. These qualities have allowed some of our graduates to obtain rewarding jobs in careers other than planning such as business management, retailing, computing and tourism.

Further study is available by taking one of our postgraduate Masters programmes specialising in aspects of the built environment.

teaching and assessment

The University's flexible MA structure means that for your first two years you can combine town and regional planning with other subjects that interest you, such as geography, economics and environmental science. We also offer Joint MA degrees with geography and economics.

You will be encouraged to learn in a variety of ways: through lectures, small group tutorials, practical projects, group exercises, site visits, self directed study and 'MyDundee', the University's virtual learning environment.

Coursework is particularly important in developing the range of skills needed by planners, and we try and make the exercises as close to the real world as possible. For example, Level 3 students compete for the annual Dundee Civic Award, a prize sponsored by Dundee City Council for a project on a topical local theme.

We frequently welcome contributions from our graduates and other planning practitioners to enrich the student experience and make it relevant to topical concerns. Planning students at Dundee also benefit from close links with geography, environmental science and architecture within the University.

what our graduates are doing

Iram Mohammed graduated with a degree in Town and Regional Planning in 2006. She joined Atkins Ltd in 2008 as a Graduate Planner, and was then promoted to Planning Consultant in 2009. "I found my time at Dundee really enjoyable. Everyone – from the lecturers to the students – was passionate about the subject and the academic support I received was first class. Lecturers always made time to see students no matter how busy they were."

programme content • typical degree programme example

Please refer to the **MA degree structure and overview** on page 135.

MA Honours degree →

Advanced entry MA Honours degree →

Level 1

- Planning for Sustainable Cities
- Design and the Environment
- Sustainable Development and the Environment
- Countryside Planning and Management

2 other approved modules

Level 2

- Design and Development
- Planning Theory and Practice
- Management in the Built and Natural Environments
- Introduction to Environmental Law

2 other approved modules

Level 3

- Territorial Planning and Development
- Planning Law and Practice
- European Spatial Planning

1 option from a suite of modules including specialisms in urban policy, environmental assessment, and Geographical Information Systems

Level 4

- Critical Planning Agendas
- Dissertation

2 options from a suite of modules including specialisms in community governance, climate change, environmental management, and urban conservation

Please visit the programme webpage for notes on programme progression.

We were ranked 1st in Scotland and in the UK Top 10 by the Guardian University Guide 2012

BSc degree structure & overview

The BSc (Honours) degree structure adopts two distinct approaches in the early years of study (Levels 1 and 2) depending upon the main subject of study:

1) a structured programme without additional (optional) module selection

2) a programme with the option of selecting modules in subjects other than your main one.

For all BSc degrees, students take 6 modules at each of Levels 1 and 2 (unless they are studying the 3 year Honours version of the programme).

Structured programmes at Levels 1 and 2

The following BSc degrees follow a structured (fixed) degree programme without additional module selection:

- Applied Computing
- Business Computing
- Business Management
- Computing Science
- Digital Interaction Design
- Mathematical Biology
- Oral Health Sciences
- Physics
- Product Design
- Renewable Energy

Programmes with options at Levels 1 and 2

The following BSc programmes allow students to select optional modules, as indicated. Where 4 optional modules can be selected, 2 of these must be in other BSc subjects.

Students following BSc programmes listed opposite can opt to study a foreign language (two modules per year) at Levels 1 and 2, and students studying Economics, Environmental Science, Geography, Mathematics and Psychology may also consider taking two MA modules in each of Levels 1 and 2.

Please note that some Level 1 modules taken as options may require previous study and passes in school leaving examinations (SQA or GCE), for example, Standard Grade or GCSE Chemistry for some biosciences or Higher/A-Level Mathematics for mathematics modules. Students taking these modules as their main subject will already have met these entry requirements.

BSc programmes at Levels 3 and 4 (Honours Level)

At Honours Level all modules are taken in the chosen Single or Joint Honours degree subject or subjects: normally a mix of compulsory and optional modules.

Programme Title	Modules in main subject	Number of optional modules
Anatomical Sciences	4	2
Biochemistry	4	2
Biological Chemistry and Drug Development	4	2
Biological Sciences	4	2
Biomedical Sciences	4	2
Biomolecular Drug Discovery	4	2
Drug Design & Mechanisms	4	2
Economics	2	4
Environmental Science	2	4
Forensic Anthropology	4	2
Geography	2	4
International Business	4	2
Mathematics	2	4
Microbiology	4	2
Molecular Biology	4	2
Molecular Genetics	4	2
Neuroscience	4	2
Pharmacology	4	2
Physiological Sciences	4	2
Psychology	2	4
Sports Biomedicine	4	2

MA degree structure & overview

The four-year MA (Honours) degree offers a range of subjects from business, the environment, humanities, and psychology which may be studied for either a single or joint Honours degree. It has been designed to maximise flexibility in course choices both for the specialist and the generalist. Well-qualified applicants may gain advanced entry to Level 2 of the degree programme and achieve an Honours degree in just three years.

The degree pathways illustrated here demonstrate the range of subjects available. Although there are compulsory core modules in all degree programmes, there is a large range of modules to choose from at Levels 3 and 4 in all subject areas.

It is also possible to study the more generalist MA Arts & Social Sciences (without Honours) in three years (UCAS code VWL0).

As well as the main degree subjects illustrated here, it is also possible to continue studying a European language (French, German or Spanish) throughout all years of your degree. Alongside these subject-based modules are also optional skill-based ones such as Career Planning, Communications and Information Technology and Academic Study Skills which help support you in your chosen field of study and career aspirations.

Visit *www.dundee.ac.uk/prospectus/ma* for more details.

Level 1

6 modules, from three or four subject areas:

- economic studies
- English
- environmental science
- environmental sustainability
- film studies
- geography
- history
- information technology
- mathematics
- philosophy
- planning
- politics
- practical French
- practical German
- practical Spanish
- psychology
- a science subject (e.g. biology)

Level 2 (possible entry - see Advanced Entry requirements)

6 modules, at least four of which should be at Level 2:

- American studies
- career planning
- economic studies
- English
- environmental science
- environmental sustainability
- European studies
- film studies
- geography
- history
- mathematics
- philosophy
- planning
- politics
- practical French
- practical German
- practical Spanish
- psychology

Level 3 MA (without Honours)

Normally 4 modules at Level 3 from:

- American studies
- economic studies
- English
- environmental science
- European studies
- geography
- history
- mathematics
- philosophy
- politics
- psychology

Graduate MA Arts & Social Sciences (without Honours)
(UCAS Code VWL0)

Level 3 MA (Honours)

Normally 4 modules from one (single Honours) or two (joint Honours) subject areas:

- American studies*
- business economics with marketing
- creative writing*
- economics
- English
- environmental science*
- environmental sustainability
- European philosophy**
- European Languages & Culture*
- European politics**
- European studies*
- film studies*
- financial economics**
- geography
- geopolitics**
- history
- international business
- international relations*
- mathematics*
- philosophy
- planning
- politics
- psychology
- Scottish historical studies**

(** single Honours only / *joint Honours only)

Level 4 MA (Honours)

Normally 4 modules from one (single Honours) or two (joint Honours) subject areas chosen in Level 3.

Graduate MA (Honours)

languages

At Dundee you can study French, German or Spanish as part of many degree programmes and/or study a wide variety of other languages for your career or personal development.

The employment opportunities for graduates with language experience are varied. Our graduates have gone into careers in international law, diplomacy, business and commerce, teaching, tourism, publishing, and European and international research, to name just a few areas.

The foreign languages programme offered by Languages (part of the School of Humanities) has two main strands:

- Practical Languages (French, German, Spanish)
- Languages for All (usually in the evening) including accredited languages: Arabic, French, German, Mandarin Chinese, Latin, Italian, Japanese, Russian, Spanish and non-accredited languages: Modern Greek, Gaelic, Portuguese, Turkish.

practical languages

Practical Languages offers you the opportunity to combine French, German or Spanish with your main degree subject/s.

You can also study two languages (one with prior experience) as part of the joint Honours degree in European Studies and European Languages and Culture (see page 96).

Our flexible entry system means that you can continue your study post-Higher or post-A-Level in French/German/Spanish.

You can also study your chosen language as a complete beginner or near beginner, in French/Spanish. German as a complete beginner can be taken as an evening class (20 credits per year).

In Levels 1 and 2, you can usually take two 20-credit modules in the relevant language, along with the other subjects you are studying. You may also be able to choose to continue your study of a language in Levels 3 and 4, whilst studying for single or joint Honours in your main subject(s). (See individual subject pages for more information.)

In the first semester of Levels 1 & 2 assessments represent 100% of your module marks and at least 50% at Levels 3 and 4. Assessments and exams are mainly based on real-life social and professional communicative situations.

erasmus exchanges

In Level 3, there are opportunities to take part in Erasmus exchanges either for a semester or a year to universities in France, Germany or Spain or other countries depending on your degree choice. See page 145 for a list of exchanges currently possible.

languages for all

Languages for All offers you the opportunity to take Arabic, French, German, Mandarin Chinese, Latin, Italian, Japanese, Russian or Spanish as a certificated course for which you can obtain 20 credits towards your degree at Levels 1 and 2 or as an optional extra. These classes are fee-paying (unless they are an integral part of your degree in French/German/Spanish) and usually run in the evening depending on demand. Funding may be available from ILA Scotland.

> Since graduating, I have found German to be an invaluable tool in finding a job and I have subsequently been hired by American Express, who required German speakers for a number of vacancies. I am now really glad that I took a language, as it has given me such a head start in the job market.
>
> *Matthew Piller, graduated in 2010 with MA (Hons) Geography with German*

programme content • typical degree programme with a language example

Please refer to the **degree structure and overview** pages for the **MA** (page 135) and **BSc** (page 134).

MA with a language

Level 1
> Practical Languages 1
> or 1 Intensive (2 modules)

plus 4 other modules

Level 2
> Practical Languages 2
> or 2 Intensive (2 modules)

plus 4 other modules

Level 3
> Practical Languages 3

plus 3 other modules in main subject/s

Level 4
> Practical Languages 4

plus 3 other modules in main subject/s

LLB (Law with a language) and Psychology with a language

Level 1
> Practical Languages 1 (2 modules)

plus 5 other modules in law/psychology

Level 2
> Practical Languages 2 (2 modules)

plus 5-6 other modules in law/psychology

Level 3
> Practical Languages 3 (1x15-credit module)

plus 4 other modules in law/psychology

Level 4
> Practical Languages 4 (1x15-credit module)

plus 2 modules and dissertation in law/psychology

learning environment

Our teaching methods are interactive and student-centred. All our courses aim to increase your linguistic competence and equip you with valuable oral and written skills which boost your CV and your professional profile such as presentations, accessing foreign source materials, correspondence and creative writing, summarising/reporting, debating, interpreting and translating.

Our courses are interdisciplinary by nature and aim to develop personal transferable skills and your intercultural awareness by exploring contemporary European media, cinema, literature, and current social and political issues.

The languages programme offers you a rich language learning environment with:

> opportunities to meet native speakers of French, German, Spanish and other languages at regular social events

> a free film club, with weekly showings of recent foreign language films

> opportunities to learn other languages through our Languages for All programme.

part-time study & lifelong learning

Many people wish to study at degree level but are unable to fit full-time study around family, work and other commitments. The University of Dundee offers a number of degrees which can be studied on a part-time basis, some in person on campus, and others by distance learning.

A summary of some of the programmes available is given below. For details on how to apply to any of these programmes please visit the websites which also include more details on entry requirements, costs and programme content.

part-time MA degree

This is a flexible part-time degree programme which is taught on a modular basis within a two-semester academic year. By accumulating the appropriate number of credits at the relevant level of study you can achieve the award of Certificate, Diploma or Degree. The part-time MA can be s tudied during the day or in the evening. Please visit the programme webpage for details of modules available and costs.

www.dundee.ac.uk/prospectus/maparttime

continuing education

We also offer a wide range of daytime and evening classes for adults covering everything from 'Writing Short Fiction' to 'Interior Design' and 'Computing for the Terrified'.

The majority of our courses do not require any entry qualifications and are generally open to anyone over the age of 16. Many of our courses are eligible for Individual Learning Account (ILA) funding of up to £200.

For more details about each programme, the costs and how to enrol, please visit *www.dundee.ac.uk/conted.*

distance learning

The University of Dundee has been at the forefront of distance learning for some 30 years. This is an educational approach to learning that enables us to offer a wide range of flexible learning opportunities to students in the UK and abroad at undergraduate and postgraduate levels. Many of these are related to continuing professional development (CPD), but some are undertaken for personal interest or pleasure.

A selection of undergraduate level programmes is given below:

> Medieval and Early Modern Scotland 1100 – 1707

> Modern Scottish History: 1707 to the present

> BSc Nursing

> BSc Health Studies

> Bachelor of Nursing (Palliative Care)

> BA Childhood Practice

> BA Community Learning and Development (work-place based mode)

> BA Professional Development in…

- Community Regeneration
- Leadership & Management
- Leadership & Management (Healthcare)
- Leadership & Management (Integrated Services)
- Volunteering Management – Diploma only

> Teaching Qualification (Further Education)

For more details about each programme, the costs and how to apply, please visit

www.dundee.ac.uk/prospectus/distance

other qualifications

School/Area of Study	Point of entry	SQA	Scottish Baccalaureate	SWAP Access
Accountancy	Level 1	A relevant HNC with B in the Graded Unit.	Pass with CC in AH.	n/a
	Level 2	A relevant HND with BB in the Graded Units.	n/a	n/a
Art and Design	Level 1	A relevant HNC with B in the Graded Unit.	Pass with CC at AH.	n/a
	Level 2	A recognised Foundation Course or a relevant HND with BB in the Graded Units.	Pass with BB at AH.	n/a
Biological/Biomedical Sciences	Level 1	A relevant HNC with A in the Graded Unit with appropriate Science units.	n/a	Relevant science subjects with AAA grades to include Chemistry and Biology/ Human Biology at SCQF Level 6
	Level 2	A relevant HND with AA in the Graded Units with appropriate Science units.	Distinction with AB at AH Biology and Chemistry. Mathematics SG 3/Int2 C.	n/a
Computing	Level 1	A relevant HNC with B in the Graded Unit.	Pass with CC at AH in 2 Sciences or Mathematics and a Science.	Relevant science subject with ABB grades to include Mathematics at SCQF Level 6
	Level 2	A relevant HNC with A in the Graded Unit and 120 SCQF credits. A relevant HND with BB in the Graded Units.	Pass with BB at AH in 2 Sciences or Mathematics and a Science.	n/a
Education, Social Work and Community Education	Community Learning and Development Level 1	A relevant HNC.	Pass with CC at AH including a literate subject.	Relevant subjects with ABB grades to include English Literature/Language at SCQF Level 6 and Mathematics at Int2 C
	Community Learning and Development Level 2	A relevant HNC with B in the Graded Unit or a relevant HND with evidence of competence in key areas of community learning and development.	Considered individually.	n/a
	Education Level 1	A relevant HNC.	Pass with CC at AH with English at Higher C or above, Mathematics SG 2/ Int2 B.	Relevant subjects with ABB grades to include English Literature / Language at SCQF Level 6 and Mathematics at Int2 C.
	Social Work Level 1	A relevant HNC.	Pass with CC at AH with a literate subject at Higher C or above, Mathematics SG 2/Int2 B.	Relevant subjects with ABB grades to include English Literature / Language at SCQF Level 6 and Mathematics at Int2 C.

Note: We have articulation agreements set up with several colleges which may differ from the requirements above. Please contact us or the college for further information.

If your qualification is not listed, please email contactus@dundee.ac.uk

EDEXCEL	Advanced Diploma	Welsh Baccalaureate	Other Qualifications	Notes
A relevant BTEC Extended Diploma with DDM.	Grade B with ASL A-Level at B.	Pass with A-Levels at BB.	n/a	English and Mathematics required at SG 2 / Int2 C / GCSE B / ILC Ord B / IB SL 5 or equivalent.
A relevant HND with Merits in appropriate modules.	n/a	n/a	n/a	Modules in Mathematics, Economics and Accountancy required for Level 2 entry.
A relevant BTEC Extended Diploma with DMM	Grade C with ASL A-Levels in appropriate subjects at BC.	Pass with A-Levels in appropriate subjects at BC.	n/a	All qualifications will be considered on an individual basis. All qualifications should include a relevant Art and Design subject, literate subject and preferably a technical subject for Digital Interaction Design and Product Design. A comprehensive portfolio of creative work is required. An interview may be required.
A recognised Foundation Course or a relevant BTEC Extended Diploma with DDM.	Grade B with ASL A-Levels in appropriate subjects at AB.	Pass with A-Levels in appropriate subjects at AB.	n/a	
A relevant BTEC Extended Diploma with DDM.	n/a	n/a	n/a	
A relevant HND with Merits in appropriate Science modules.	Grade A with ASL-A Level Biology and Chemistry at AB. Maths GCSE C.	Pass with A-Levels in Biology and Chemistry at AB. Mathematics GCSE C.	n/a	
A relevant BTEC Extended Diploma with DDM.	Grade B with ASL-A Levels in 2 Sciences/Mathematics and a Science at BB.	Pass with A-Levels in 2 Sciences/Mathematics and a Science at BB.	n/a	For entry to Computing, competence in Mathematics is essential.
A relevant HND with Merits in appropriate Science modules. A relevant BTEC Extended Diploma with DDD.	Grade B with ASL-A Levels in 2 Sciences/ Mathematics and a Science at AB.	Pass with A Levels in 2 Sciences/Mathematics and a Science at AB.	n/a	Level 2 entry requires completion of our pre-entry module Java Online (*www.computing.dundee.ac.uk/projects/jol/*).
A relevant BTEC Extended Diploma with MMM.	Grade C with an A-Level in a literate subject at B.	Pass with BC at A-Level.	n/a	See A-Z listings for information regarding specific selection criteria.
A relevant BTEC Extended Diploma with DMM.	Considered individually.	Considered individually.	n/a	Candidates can be considered for Level 3 entry with a relevant HND with Graded Unit BB and significant evidence of competence in community learning and development.
A relevant BTEC Extended Diploma with DMM.	Grade B with an A-Level in a literate subject at B. English Language and Literature and Mathematics GCSE at B.	Pass with BB at A-Level including one literate subject. English Language and Literature and Mathematics GCSE at B.	Relevant Access courses considered individuall.y	Applicants with relevant qualifications and experience may be considered for advanced entry on an individual basis.
A relevant BTEC Extended Diploma with DMM.	Grade C with an ASL- A Level in a literate subject at C. Mathematics GCSE B.	Pass with A Levels at CC including a literate subject. Mathematics GCSE B	Relevant Access courses considered individually	All Applicants must meet the minimum Mathematics requirement for the course. Applicants with relevant qualifications and experience may be considered for Advanced Entry on an individual basis.

other qualifications continued

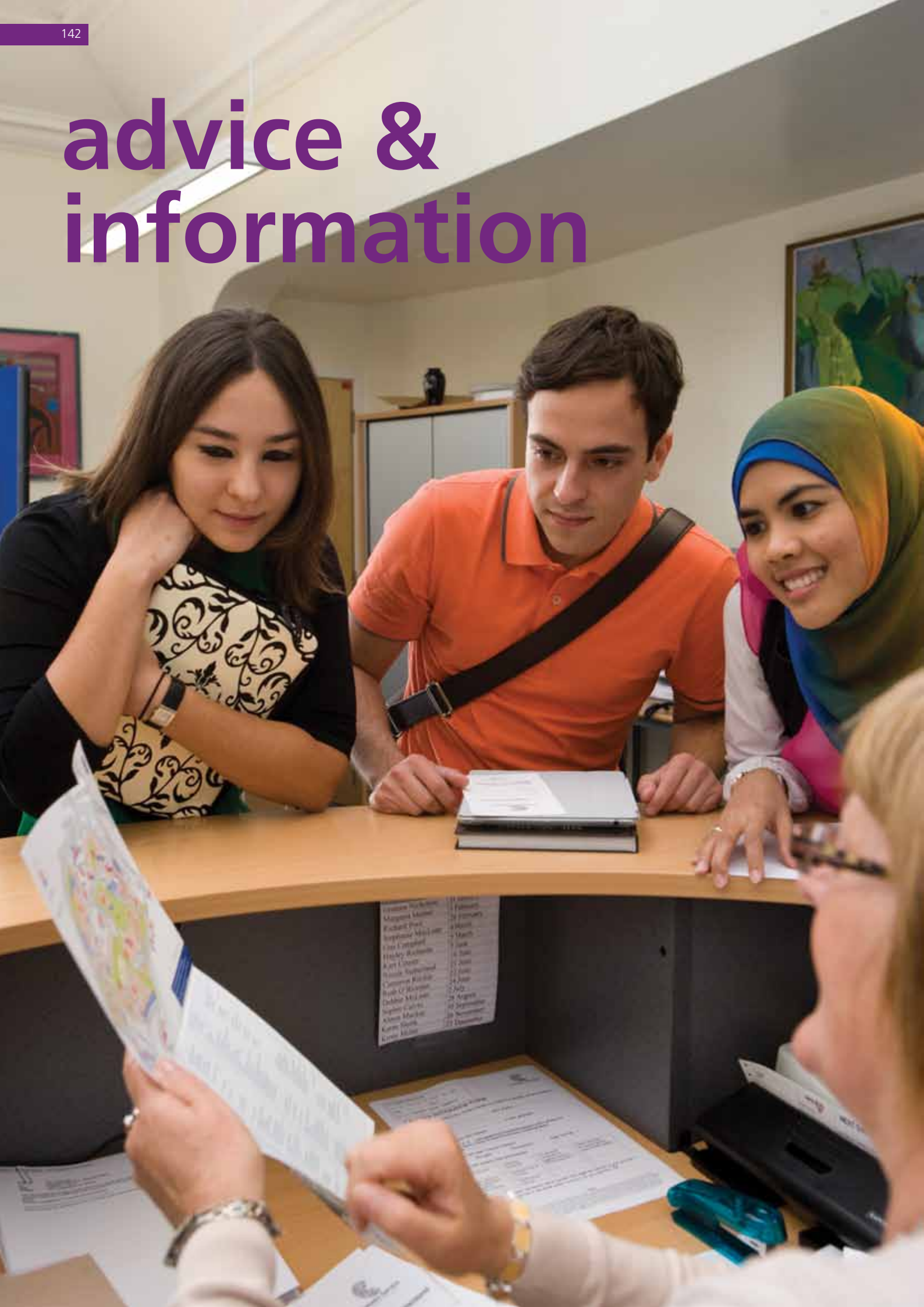
School/Area of Study	Point of entry	SQA	Scottish Baccalaureate	SWAP Access
Engineering, Physics and Mathematics	Level 1	A relevant HNC with B in the Graded Unit including Mathematics for Engineering I.	Pass with BC at AH in Mathematics and a Science/ Engineering subject (BEng/BSc) or Mathematics and Physics (MEng/MSc).	Relevant science subjects with ABB grades including Mathematics and Physics Units at SCQF Level 6.
	Level 2	A relevant HNC with A in the Graded Unit including Mathematics for Engineering 2 and 120 SCQF points. A relevant HND with BB in the Graded Units including Mathematics Engineering 2.	Distinction with AB at AH in Mathematics and a Science/ Engineering subject (BEng/BSc) or Mathematics and Physics (MEng/MSci).	n/a
Humanities/ Economic Studies	Level 1	A relevant HNC with B in the Graded Unit.	Pass with CC at AH.	Relevant subjects with ABB grades to include English Literature / Language at SCQF Level 6 and Communication 4 plus Literature 1.
	Level 2	A relevant HND with BB in the Graded Units.	Distinction with AB at AH.	n/a
Law	4 Year Honours degree (Level 1)	An HNC in Legal Studies/Legal Services with A in the Graded Unit considered individually. An HND in Legal Studies/ Legal Services with AA in the Graded Units considered individually.	Considered individually.	n/a
	3 Year Honours degree (Level 2)	Considered individually.	Considered individually.	n/a
Nursing	Level 1	An HNC (with a C in the Graded Unit where applicable) or an HND.	Pass	Access to Nursing courses available at: Adam Smith, Angus, Carnegie, Dundee, Elmwood, and Perth FE Colleges.
Psychology	Level 1	A relevant HNC with B in the Graded Unit.	Pass with CC at AH.	Relevant subjects with ABB grades to include English Literature / Language at SCQF Level 6 and Communication 4 plus Literature 1.
	Level 2	A relevant HND with BB in the Graded Units with appropriate Psychology Units.	Pass with BB at AH in Psychology and another subject.	n/a
The Environment	Level 1	A relevant HNC with B in the Graded Unit.	Pass with CC at AH.	Relevant subjects with ABB grades to include English Literature / Language at SCQF Level 6 and Communication 4 plus Literature 1.
	Level 2	A relevant HND with BB in the Graded Units.	Pass with BB at AH.	n/a

Note: We have articulation agreements set up with several colleges which may differ from the requirements above. Please contact us or the college for further information.

If your qualification is not listed, please email contactus@dundee.ac.uk

EDEXCEL	Advanced Diploma	Welsh Baccalaureate	Other Qualifications	Notes
A relevant BTEC Extended Diploma with DDM.	Grade B with ASL-A Levels at AB in Mathematics and a Science/Engineering subject (BEng/BSc) or Mathematics and Physics (MEng/MSci).	Pass with A Levels at AB in Mathematics and a Science/Engineering subject (BEng/BSc) or Mathematics and Physics (MEng/MSci).	Irish Ordinary Degree: Overall Merit at 60% (Level 3 BEng entry), Overall Distinction at 70% (Level 3 MEng entry).	Entry to BEng/BSc programmes only, unless otherwise stated.
A relevant HND with Merits in appropriate Science/Mathematics modules. A relevant BTEC Extended Diploma with DDD.	Grade B with ASL-A Levels at AA in Mathematics and a Science/Engineering subject (BEng/BSc) or Mathematics and Physics (MEng/MSci).	Pass with A Levels at AA in Mathematics and a Science/Engineering subject (BEng/BSc) or Mathematics and Physics (MEng/MSci).	n/a	SQA HNC only relevant for Level 1 entry to Civil Engineering. Entry to BEng/BSc programmes only unless otherwise stated.
A relevant BTEC Extended Diploma with DDM.	Grade B with ASL-A Level at B.	Pass with A Levels at BB.	n/a	Entry to BSc degrees requires a Science component equivalent to SQA Higher. Entry to English Literature courses requires Higher B/A Level C or equivalent in English/English Literature.
A relevant BTEC Extended Diploma with DDD.	Grade A with ASL-A Level at B.	Pass with A Levels at AA.	n/a	See A-Z listings for essential subjects.
A relevant BTEC Extended Diploma with DDM.	Considered individually.	Considered individually.	n/a	Applications from students with non-standard educational backgrounds and qualifications are welcomed and will be considered on their merits. These applicants must be able to show evidence of recent academic achievement. Certain professional qualifications or two or three recent Highers (or equivalent) may be considered sufficient.
Considered individually.	Considered individually.	Considered individually.	n/a	
A relevant BTEC Extended Diploma (MPP), or BTEC Diploma (MM).	Grade D.	Pass with A Level at D.	Equivalent EU or international qualifications, applicants must have IELTS 7.0 or equivalent prior to interview. Modular courses which fulfil NMC criteria.	Essential subject requirements: Candidates must possess the equivalent of English and Mathematics at a minimum of SG at 3/GCSE at C. All applicants are selected for interview before being made an offer.
A relevant BTEC Extended Diploma with DDM.	Grade B with ASL-A Level at B.	Pass with A Levels at BB.	n/a	
A relevant BTEC Extended Diploma with DDD.	Grade A with ASL-A Level at B.	Pass with A Levels at AA.	n/a	
A relevant BTEC Extended Diploma with DDM.	Grade B with ASL-A Level at B.	Pass with A Levels at BB.	n/a	Entry to BSc degrees requires a Science component equivalent to SQA Higher.
A relevant BTEC Extended Diploma with DDD.	Grade A with ASL-A Level at B.	Pass with A Levels at AA.	n/a	No Level 2 entry for MArch Architecture.

advice & information



access courses

The University recognises that sometimes circumstances can lead to underperformance at school or college. If you were not able to translate your full potential into the qualifications required for entry to our degree courses, yet feel you have the talent and determination to earn a place, why not apply?

Dundee University Access to Learning (DUAL) summer school

DUAL is for students who, due to circumstances beyond their control, lack qualifications required for degree entry. All will have strong potential, as evidenced by the independent referee they nominate. This 6 week full-time course involves all students completing a Personal Academic Skills module in addition to studying three taught subjects out of a list of around thirteen normally on offer. Applicants may be eligible for a bursary.

For details and to apply, visit
www.dundee.ac.uk/prospectus/dual

email: participation@dundee.ac.uk

discover learning at dundee

Some students may not be available when DUAL runs or wish to study off campus and over a longer period. Others may simply wish to study a module for interest, rather than four modules to qualify for undergraduate entry. Discover Learning at Dundee is an exciting online programme that allows students exactly this opportunity at different times throughout the year. It is free to those meeting our Access criteria and those eligible for ILA.

For details and to apply, visit
www.dundee.ac.uk/prospectus/discoverlearning

email: discoverlearning@dundee.ac.uk

accommodation

The University of Dundee accommodates over 1500 students in four residential complexes - Heathfield, Belmont, Seabraes and West Park. The majority of accommodation is on or close by the city campus and all offer a comfortable home from home where you can settle quickly and meet new friends.

The residences have been the focus of significant developments in the last few years and now comprise approximately 250 self-contained flats (each flat has its own kitchen and dining space) accommodating between five and ten residents. All our accommodation provides bedrooms with ensuite shower and toilet and the capability of cable connection to the University's superfast broadband network.

Bedrooms are all single occupancy and are sized approximately 13 or 15 sq.m. (including the en-suite facilities). Kitchens are equipped with cooker, fridge/freezer, microwave and kettle. However, the following items are not supplied in any of the residences: crockery, cutlery, pots, pans, cooking utensils, bed sheets, pillow, blankets etc. Each complex has a coin-operated laundry available for all residents. Cleaning services are limited to communal areas during the period of the lease.

Belmont (450 residents) and **Heathfield** (426 residents) are located centrally on the city campus and yet are only ten minutes walk from the city centre. The residences lie adjacent to each other and the Institute of Sport and Exercise (ise), tennis courts and swimming pool. The Students' Association (DUSA), Main Library and the Chaplaincy are also close by. Heathfield also accommodates the main property management office.

Seabraes (411 residents) is located between the city campus and the River Tay and is just a few minutes walk from all the amenities on the city campus as well as being close to the city centre. There are also facilities for postgraduate and upper years undergraduate students here.

West Park (300 residents) is located in a residential area mid-way between the city campus and Ninewells Teaching Hospital and is approximately 20 minutes walk from both, as well as having access to good public transport. The site also accommodates the West Park Conference Centre.

family accommodation

Unfortunately the University does not provide family accommodation, however there is a good supply of private accommodation near the campus. We strongly recommend that you do not bring your family to Dundee until suitable family accommodation is confirmed.

students with disabilities

We already accommodate a number of students with disabilities and will do our best to help you and any helper you may require. If your disability is severe, you should write to Admissions and Student Recruitment (contactus@dundee.ac.uk) before you apply for one of our courses so that we can check out for you all aspects of living and learning at Dundee.

application & lease agreements

Once you have firmly accepted the offer of an academic place at the University you will receive further accommodation application information by email from the Admissions Team. We are able to offer accommodation to all single entrant students starting courses in September, who send us their application form by the deadline.

We will try to meet the needs of those applying after the deadline, but we cannot guarantee it. Accommodation is normally arranged for the full academic session (39 weeks from September to May) and students are required to accept a lease agreement prior to moving in.

For further information about the facilities and services available as well as pictures of each residence, please visit our website *www.dundee.ac.uk/residences.*

application calendar

applying online at www.ucas.com

For all full-time higher education courses at universities and colleges in the UK, students must apply online via UCAS. There are three types of applicant:

1. **Students at a school or college registered with UCAS**
   All UK schools and colleges (and a small number of establishments overseas) are registered with UCAS to manage their students' applications. Advice is available from your teacher or a careers adviser at your school or college. You fill in an online application and submit it to a member of staff. After checking your details, and having added the academic reference, your school or college submits the completed application online to UCAS. You pay online using a credit card or debit card. You may also be able to pay through your school or college.

2. **Independent applicants in the UK**
   Other UK applicants, who are not at school or college, apply online independently. Unlike school and college students, you may not be readily able to seek advice from a teacher, but can instead consult with various careers organisations (such as Connexions). You are responsible for paying the correct application fee, for obtaining and attaching the academic reference and for submitting the completed application online to UCAS.

3. **International applicants outside the UK (EU & worldwide)**
   Except for those whose school or college is registered with UCAS, individuals from the EU (excluding the UK), and worldwide, apply online independently. Advice is available from British Council offices and other centres overseas such as your school or college. You are responsible for paying the correct application fee, for obtaining and attaching the academic reference and for submitting the completed application online to UCAS.

   For all applicants there are full instructions at *www.ucas.com* to make it as easy as possible for you to fill in your online application, plus help text where appropriate.

application calendar

We've listed all the key details that you have to think about and put them into a calendar so that you can always be up to date as you go through the application process.

think dundee

March

- Higher Education Career Events in England and Northern Ireland
- Schools can schedule higher education talks delivered by University of Dundee Liaison Officers

April

- Higher Education Careers Events in England & Wales

May

- Advanced Higher/Higher and A/AS-Level examinations across the UK
- Higher Education Career Events in England
- UKCAT registration for medicine and dentistry courses opens

June

- University of Dundee Medicine Visit Day
- University of Dundee Dentistry Visit Day
- Advanced Higher/Higher and A/AS-Level examinations across the UK
- Higher Education Career Events in England & Wales

August

- Results for Advanced Higher/Higher and A/AS-Level examinations across the UK
- Higher Education Career Events in Scotland
- University of Dundee Visit Day (see website for details)

September

- University of Dundee Visit Day (excluding Art & Design)
- Higher Education Career Events in Scotland
- UKCAT registration for medicine and dentistry courses closes
- Schools can schedule UCAS application talks delivered by University of Dundee Liaison Officers
- Preparation of applications for medicine, dentistry and veterinary medicine

apply dundee

October

- UCAS application deadline for medicine, dentistry and veterinary medicine (15th)
- University of Dundee Art & Design Visit Days

November

- Preparation of all other applications

December

- Preparation of all other applications

January

- UCAS application deadline (15th) for all other courses
- Interviews for University of Dundee courses ongoing

February

- University of Dundee Post Application Visits
- Interviews for University of Dundee courses ongoing
- Schools can schedule 'Student Finance and Welfare' talks delivered by University of Dundee Liaison Officers
- UCAS Extra begins

March

- Apply to SAAS or Student Finance England/Northern Ireland/Wales for funding and assessment
- University of Dundee Post Application Visit Days
- Interviews for University of Dundee courses ongoing

decide dundee

April

- University of Dundee Post Application Visit Days
- UCAS Extra
- Portfolio assessment for University of Dundee art and design courses ongoing

May

- If all offers are received applicants can make Firm acceptance and Insurance acceptance
- Advanced Higher/Higher and A/AS-Level examinations across the UK
- Application forms for accommodation are issued via email from May once Dundee becomes your Firm acceptance
- UCAS Extra

June

- Advanced Higher/Higher and A/AS-Level examinations across the UK
- UCAS Extra
- Late UCAS application submission deadline (30th)

July

- 31st – deadline for applications to University accommodation
- Matriculation information is issued by email from July to all applicants with an Unconditional Firm acceptance at Dundee

August

- Examination results
- Confirmation of conditional offers by institutions
- Clearing opens
- Freshers' Week events pack sent from the Students' Union (DUSA) to all new students

arrive dundee

September

- New students can access University accommodation
- Matriculation (also known as Registration/Orientation)
- Welcome Week activities (also known as Freshers' Week)
- Semester 1 teaching begins

exchange programmes

The University of Dundee has exchange agreements with many universities across Europe, North America and Australasia. A list of the ones in place for the 2011/12 academic year is given below. Since these agreements can change each year, please see our website for the most up-to-date information:
www.dundee.ac.uk/prospectus/studyabroad

Erasmus Study Abroad Exchange Programmes (for 2011/12)	
Accountancy	Germany, Italy, Spain
Architecture	France, Germany, Poland
Biological Sciences	France, Hungary
Business Studies	Italy
Chemistry	Sweden
Civil Engineering	Finland, Germany, Italy, Slovenia
Computing	Italy, Poland, Sweden
Dentistry	Denmark, Finland, France, Germany, Norway
Design	Belgium, Finland, France, Germany, Italy, Netherlands, Poland, Spain
Economic Studies	France, Germany
Electronic Engineering	Italy, Germany
Engineering Technology	France
English	Austria, Germany, Greece
European Studies	France
Fine Art	France, Germany, Ireland, Italy, Netherlands, Romania, Spain, Sweden
Geography	Germany, Spain, Sweden, Switzerland
History	France, Germany, Netherlands, Poland, Spain
Industrial Design	Spain
Interior Design	Belgium
Law	Belgium, France, Germany, Netherlands
Mathematics	France, Germany, Spain
Mechanical Engineering	Germany
Media Arts & Imaging	Austria, Finland, France, Germany
Philosophy	France, Turkey
Politics	Denmark, Poland
Social Sciences	Spain

Transatlantic & Australasia Study Abroad Programmes (for 2011/12)	
Bachelor of Arts/Bachelor of Design (BA/BDes) from Duncan of Jordanstone Bachelor of Accountancy (BAcc) Bachelor of Engineering (BEng) Bachelor of Science (BSc) Master of Arts (MA)	Australia, Canada, USA, Hong Kong, New Zealand
MArch Architecture	Australia

fees & funding

There have been many changes to the arrangements for funding UK students entering higher education in recent years, particularly with the varying systems across the UK from 2012/13 onwards.

The information given below is correct as at December 2011 and is a basic summary of the arrangements for the 2012/13 academic year. For specific details of tuition fees charged for each course in 2013/14, please visit the relevant programme webpages.

Your main costs will be your tuition fees, your accommodation, materials for your course (books, stationery etc.) and your cost of living including food, transport and, of course, social life.

students coming to dundee from scotland

tuition fees (for 2012/13):

- £1,820 per year
- The full cost of tuition is met by the Scottish Government by applying to the Student Awards Agency for Scotland (SAAS).

living costs:
The total support package may consist of a bursary, parental contribution and student loan depending on your individual situation. You should apply to the Student Awards Agency for Scotland for financial support for living costs.

further information:
Student Awards Agency for Scotland – *www.saas.gov.uk*

students coming to dundee from england, wales & northern ireland (Rest of UK)

tuition fees (for 2012/13):

- Usually £9,000 per year for 3 years (exceptions are MArch Architecture, MBChB Medicine, BDS Dentistry where fees are paid for each year of the course) but please visit programme webpages for full details.

- Students can apply to their relevant funding body for a tuition fee loan. Tuition fee loans are not means-tested, are administered by the Student Loans Company, are paid direct to the institution and are repaid in the same way as the student loan. Specific arrangements in England, Wales and Northern Ireland differ slightly but the full tuition fee amount will be covered.
- A package of bursaries and scholarships for rest of UK students is available. Please check www.dundee.ac.uk/prospectus/bursaries

living costs:
Students' total support may consist of a maintenance grant, parental contribution and student loan depending on an individual student's situation.

Whilst all three systems in the Rest of the UK are similar, the total amounts available might vary slightly.

repayment of student loans

From 2012 onwards student loan repayments begin in the April after the student graduates or leaves their course, as long as they are earning over £21,000 p.a. Interest on the loan is linked to inflation, so that in real terms students only pay back what they borrow.

Please note that these arrangements may change in the future.

further information:

Student Loans Company – *www.slc.co.uk*
Student Finance England – *www.direct.gov.uk/studentfinance*
Student Finance Wales – *www.studentfinancewales.co.uk*
Student Finance NI – *www.studentfinanceni.co.uk*

students coming to dundee from other EU member states

tuition fees (for 2012/13):

- £1,820 per year

EU students can apply to the Student Awards Agency for Scotland (SAAS) to have their full tuition fees paid direct to the institution. In general, EU students cannot apply for student loans and general living cost support from SAAS. There have been recent changes to the EU regulations which can be complex. If you are NOT coming straight to Scotland to study having been living only in your home country, you are advised to contact SAAS for further advice.

further information:
Student Awards Agency for Scotland – *www.saas.gov.uk*

students coming to dundee from other countries

tuition fees:
Students normally resident outside the UK or EU pay tuition fees direct to the University at the overseas rate. Please visit our programme webpages for the specific tuition fees for each programme.

living costs:
International students are not eligible for UK student bursaries and loans, however, specific scholarships for international students may be available.

further information:
www.dundee.ac.uk/prospectus/overseasfees

living costs

Dundee offers students a lower cost of living than most other parts of the UK; in fact, the cost of living in Dundee is approximately 14% lower than the UK average.

Estimated total cost of living for a single student can range from £6,500 to £7,500 per academic year.

However, expenditure will depend on a student's lifestyle and the funds available to them. The table below details a typical budget for a Dundee student living in University self-catering accommodation throughout a 39-week academic year.

Typical budget for a Dundee student living in University self-catering accommodation throughout a 39-week academic year

	£ per week	**39 weeks**
Typical rent (self-catering)*	114.59	4469.01
Food, drink	30	1170
Books, printing, equipment	12.50	487.50
Clothes	12.50	487.50
Travel	6	234
Laundry, toiletries etc	6	234
Phone	5	195
Extras	5	195
Total Expenditure	**£191.59**	**£7472.01**

* Price for campus standard ensuite accommodation in 2011/12.

alternative sources of funding

Charities, trust funds, bursaries and scholarships are alternative sources of funding which might be available to you. Sponsorship by your employer or by the Armed Forces may also be possible. Check your local library for copies of '*The Directory of Grant Making Trusts*', '*The Grants Register*' and the '*Charities Digest*' which are useful publications.

The University distributes the Higher Education Discretionary Fund and the Higher Education Childcare Fund, both of which are open to students funded by the UK system.

further information: *www.dundee.ac.uk/studentfunding*

financial support offered by university of dundee

In light of recent Scottish Government funding changes, we are offering a range of bursaries and scholarships which are designed to promote the diversity of our student body and emphasise our commitment to widening access and promoting academic excellence. For up-to-date information on all bursaries and scholarships available, please check *www.dundee.ac.uk/prospectus/bursaries*

bursaries for rest of UK (RUK) students

Upfront cash bursaries are available to support the living costs of students coming to Dundee from the rest of the UK. Eligibility is primarily based on significant family financial need and will be confirmed by the Student Loans Company. Applicants will be invited to apply online for these bursaries.

scholarships for Scottish and Rest of UK students

Our academic Schools offer a range of scholarships where the main criterion is academic excellence. Applicants who are either domiciled in Scotland or are liable for RUK fees will be invited to apply online for one of these scholarships.

medicine and dentistry

The Dow Memorial Trust awards a small number of scholarships up to £2,000 per annum for each of the 5 years of study, subject to a satisfactory academic record. All applicants awarded a place can apply and will be sent an application form automatically.

dundee university sport scholarship programme

We are committed to assisting talented athletes studying at the University, to reach their academic and sporting potential. The Institute of Sport and Exercise (ise) offers an individual sport scholarship to talented athletes and a team scholarship which is available to teams demonstrating a high level of commitment and potential to perform well and succeed for the University.

The Dundee University Sport Scholarship Programme complements our work at national level and is designed to empower talented student athletes to successfully combine academic study with high levels of competition.

For more information or to apply for a scholarship please visit: *www.dundee.ac.uk/prospectus/sportscholarship*

organ, saxophone and choral scholarships

Scholarship holders will receive free music tuition in return for participating in University musical events. The organ scholarship also carries a prize of £300 p.a., the choral scholarships a prize of £150 p.a. and the four saxophone scholars have free use of musical instruments.

www.dundee.ac.uk/prospectus/musicscholarships

part-time work

Although the cost of living in Dundee is relatively low, increasing numbers of students are undertaking part-time employment to supplement their income. The Careers Service and the Students' Union (DUSA) can provide guidance in this area, both in terms of job opportunities and the number of hours that can be worked safely without adversely affecting your studies.

EU and international students are also allowed to work part-time for a maximum of 20 hours per week during the semester and full-time in holidays, although this is dependent on your visa restrictions.

further information: *www.dundee.ac.uk/careers*
www.dusa.co.uk

further education college students & staff

information for students from further education college

The University of Dundee has strong links with Scotland's colleges and with many of the FE colleges in England, Wales & Northern Ireland.

We have articulation agreements in place which allow students to identify a clear progression route from their college into a wide range of the University's degree programmes. These articulation agreements state the required entry conditions for a particular degree programme, for example, which HNC/HND courses are relevant, the specific grades in particular units you need to achieve, whether you need to submit a portfolio or have relevant work experience etc.

Advanced entry into Levels 2 or 3 for some degree programmes is possible if you have gained the required academic grades in your Scottish Wider Access Programme (SWAP), HND or BTEC diploma courses. For further details see the Other Qualifications table on pages 138 - 141.

student shadowing

If you are in your final semester at college, are thinking of applying, but are still not sure if you have chosen the right subject, then joining one of our students and spending time 'shadowing' them for a day might be for you!

It is a perfect opportunity to experience university lectures, tutorials or workshops first hand and offers you a unique insight into the whole student learning experience.

Visit *www.dundee.ac.uk/studentshadowing* for more details.

supporting our further education college students

The transition from college into higher education can be challenging and yet very rewarding, not least when you eventually graduate from the University of Dundee.

There is no doubt you will experience different styles of teaching and learning at university from what you may have already experienced at college, and a lot of terms used here may be unfamiliar. However, you will soon adapt to these different styles and the 'University Jargon Buster' at *www.dundee.ac.uk/prospectus/jargon* is useful for anyone new to university.

Depending on the degree you choose, you will attend lectures in our state-of-the-art lecture theatres, take part in small group tutorials, study independently in our newly extended main library, use My Dundee, our Virtual Learning Environment (VLE), or possibly even take part in field trips in Europe or the USA. See page 149 for more information about learning and teaching.

Many students from college feel they need a bit of extra advice or an opportunity to advance their academic skills when they first start university. We have a range of support services available on campus, offering both face-to-face and online support. See page 152 for more details about our support services.

information for further education college staff

We have a dedicated team of Liaison Officers who will offer UCAS and articulation advice to applicants, and give presentations in the FE colleges.

Currently we offer the following presentations to FE colleges:

- Pathways from college to the University of Dundee
- UCAS application to the University of Dundee

If your college does not yet have a formal articulation agreement with the University of Dundee, please contact us to discuss the opportunity for establishing these clear progression routes for your students onto our degree programmes.

further information
www.dundee.ac.uk/undergraduate/fe

For all FE college enquiries from students and staff email us at: fecollege@dundee.ac.uk

international community

We welcome students to our courses from all over the world, with students from 83 countries creating an international community which benefits all of our students. Our International Team will provide you with a responsive and understanding service from initial enquiry through to matriculation as a student. Thereafter, our International Advice Service will look after you.

Please visit *www.dundee.ac.uk/admissions/international* for more detailed information for prospective international students.

advice on entry qualifications

Because of our strong reputation, entry to all our courses is competitive. Whatever qualifications you have, we look for good passes which would gain you entry to a degree course in your home country.

We are pleased to consider applications from students seeking entry to Level 2 or Level 3 of our courses.

Contact the International Team giving full details of your qualifications, with marks or grades obtained. You can also meet us in your country, register for one of our webchats or find out more at *www.dundee.ac.uk/prospectus/yourcountry*

english language proficiency

If English is not your first language you must provide documentary evidence of your ability in English by obtaining a recognised English language qualification. Normally we would expect students to have an IELTS score of 6.0 or equivalent; however, some courses require a higher IELTS score.

You may also wish to develop your English language further before you begin your degree course. We offer a range of English support courses depending on your ability. Please visit *www.dundee.ac.uk/prospectus/english* for more details.

tuition fees, living costs and scholarships

All students or their sponsors must pay tuition fees as well as their full living and travel expenses. Students normally resident in EU states are treated on the same basis as Scottish domiciled students for fee purposes (see page 146) while students from outside the UK or EU not normally resident here pay fees at the overseas rate. Information about fee levels, estimated living costs and overseas student scholarships is available from *www.dundee.ac.uk/prospectus/overseasfees*

application procedure

You should apply online through UCAS, the Universities and Colleges Admissions Service (see page 144).

application procedure for study abroad and non-graduating students

If you wish to study on a non-graduating basis, you should not apply through UCAS. Discuss your plans with the appropriate person in your home university and then complete an online application *www.dundee.ac.uk/prospectus/studyingabroad*

accommodation

Our Residences Office takes special care in allocating accommodation for students from overseas, especially students arriving in Dundee for the first time.

We guarantee to provide University accommodation to individual students who apply before the deadline.

In accordance with current students' preferences all our accommodation is self-catering which allows students who may require a special diet to prepare their own food. Local shops and supermarkets supply international food and cooking ingredients and the city has many restaurants serving food from all over the world. See page 143 for further details.

meet & greet services

Arrangements can be made to meet international students (from countries outside the EU) on their arrival at Edinburgh Airport immediately before the start of the semester.

Please visit *www.dundee.ac.uk/prospectus/pre_arrival* for more details.

international advice service

Our International Advice Service helps our international students settle into Dundee by organising cultural excursions and opportunities to meet other students during the first few weeks, and is available to give advice on a range of issues, such as visa extensions, throughout the year.

Previously, our international students have enjoyed a Scottish Ceildh (dance), a visit to Glamis Castle and a weekend trip to the Highlands.

www.dundee.ac.uk/international/support

student life

Within the Students' Association there are many student societies of interest to international students. There are also informal groups of students from different countries who help to support each other and keep in touch with their home countries and embassies.

The University provides students with facilities for prayer and reflection in the Chaplaincy. The local community also has places of worship for Christian, Jewish, Muslim, Buddhist and Hindu faiths.

contact: International Team

tel: +44 (0)1382 388111

www.dundee.ac.uk/admissions/international

learning & teaching

learning together

Our degree courses are taught as modules within a two-semester academic year. The modules you choose will be approved by your Adviser of Studies in your School to ensure that your choices fit well with your degree programme. You will be given further academic guidance by lecturing staff who will monitor your progress and performance on their modules.

- **lectures** form the foundation of your studies. Typically they are 50 minutes long and introduce you to the main themes of your course in the form of exploration of fundamental topics, new ideas, concepts and specialist critiques. You will be expected to take your own notes in lectures, although some lecturers may provide handouts or PowerPoint slides that are made available before or after the lecture through My Dundee, our online virtual learning environment. In addition, you will generally be expected to undertake further reading and research on lecture topics in your own time.
- **tutorials** are meetings of a small number of students with a tutor or lecturer. Tutorials take different formats depending on your course of study. For some subjects these are open discussions led by the tutor where all students are expected to participate and give their views. In other subjects, these can be working sessions to cover prepared examples – such as in maths, accountancy or engineering – and so provide opportunities for personal tuition.
- **practical & laboratory sessions** are occasions when students work on a series of set problems under laboratory conditions. These are most common in subjects such as the sciences, engineering and psychology. These sessions give you the chance to apply the theory to practical situations. You will need to maintain a lab notebook and may be assessed on the results of your work in these sessions.

learning independently

Becoming a student places you in a new role where what you learn and how you learn it is a matter of personal choice. You will be encouraged to approach learning in ways that suit your individual learning style.

Our facilities are designed to assist you to do this so that you can develop your potential in ways that suit you best.

assessment

University learning is increasingly diverse and you will be set course assignments at the outset of your module course with clear deadlines for submission. You will be given learning objectives so that you know what is expected of you.
A range of activities will also be assessed. For example, your participation in group discussions in lectures, tutorials and online discussions as well as your written work will contribute to your final marks.

- **coursework** takes many forms. For example, a nursing student might be required to write a case study, an engineering student might prepare a set of worked examples while a science student may be required to write a report based on a laboratory experiment, a humanities student may have to write an essay and a student teacher might have to submit a lesson plan. Once written work is graded, you will receive detailed feedback from the tutor or lecturer who has assessed your work.
- **projects** are longer pieces of work that may include presenting a portfolio of studio work or an in-depth analysis of a particular research area or specific topic.
- **oral presentations** are often part of the formal assessment of a course where you have to prepare a paper or presentation to deliver to your fellow students in a tutorial.
- **discussion participation** is an integral part of your university education. You will be encouraged to present and defend your own views based on your own understanding and research of the subject under consideration as well as challenging the views of your colleagues and even your tutor. This is all part of your graduate training and hence in many modules you will be assessed on the contribution you make to the discussion.

participating in university policy-making & evaluation

Each student has a role to play in developing and extending the style and delivery of learning. To this end, the University has a number of ways of including students in the process of evaluating and shaping the process of learning.

- **Student representation** is intended to provide students with opportunities to make their views known at class and School levels. Class Reps are elected for each module and report to School Presidents who feed these opinions and suggestions to the executive of Dundee University Students' Association (DUSA) for further discussion and action.
- **Quality Assurance** is an essential dimension of the University's aspiration to provide high-quality teaching. Your lecturers routinely review their performance in teaching and react appropriately to comments from surveys and staff-student liaison committees which form a key component in maintaining and improving learning experiences for all.

www.dundee.ac.uk/prospectus/yourstudies

parents information

We have listed some of the questions that we typically receive from the parents of prospective students. Of course, if you have any queries which are not covered below, please do not hesitate to contact us at contactus@dundee.ac.uk

finance

1. How expensive is the cost of living in Dundee?
The cost of living in Dundee is approximately 14% below the national average.

2. How much do typical students spend each year whilst studying at Dundee?
We canvassed some of our students and put together a typical student budget detailing what students typically spend per week and over the academic year. This table can be found on page 146.

3. Are there any additional studying costs that students should be aware of?
Additional studying costs will depend on the course that a student is undertaking. For example art and design students will have to make a contribution to their materials and medical students will be responsible for providing some basic equipment.

In general, students will have to consider the cost of books, printing and photocopying. For more information, please see the student budget on page 146.

4. How can I find out about the bursaries/scholarships available?
We list information regarding the bursaries and scholarships we offer on our website at: *www.dundee.ac.uk/prospectus/bursaries* or see page 146. In most cases students will be eligible to apply as soon as they have firmly accepted an offer from Dundee.

5. My family have lived and worked outside the UK for 3 years. Can my child, a Scottish citizen, claim for fee payment through SAAS?
Any queries regarding fee payment or student loans should be directed to SAAS through their website: *www.saas.gov.uk*.

6. How easily can students find part-time work?
Dundee has more students per head of population than any other Scottish city. This fact is recognised by local employers who employ students for a range of part-time positions. Students can find out about current vacancies on the Careers Service Jobshop database. For more information please visit *www.dundee.ac.uk/careers*

student residences

7. How much do the student residences cost? How can payment be made?
The cost of student residences will differ each year. The cost of a standard ensuite room on campus for students in 2011/12 was £4,469 for 39 weeks. Once students apply for a place in accommodation they are asked to pay a booking fee and are offered two payment options: one-off payment or recurring card payment. For more information please visit *www.dundee.ac.uk/residences*

8. What does the cost of student residences include?
The price for student residences includes: rent, utilities, personal contents insurance, IT connection and internet charges. For more information please visit *www.dundee.ac.uk/residences*

9. Are there additional costs to be met in student residences?
If students wish to keep a television in their room in residences they will have to pay for their own TV licence. Students have to provide their own bedding, towels and crockery, but can purchase a bedding pack if they wish. Coin operated laundry facilities are available in each residence. For more information please visit *www.dundee.ac.uk/residences*

10. Can students park their car on campus?
Parking on campus is extremely limited and student parking permits are generally only considered for students with mobility needs.

11. How secure is the University campus?
The security of staff and students is of paramount concern to the University and a comprehensive network of security measures are in place to ensure that Dundee remains one of the safest places to study in the UK. A 24-hour manned security station at the heart of the city campus coordinates regular security patrols by uniformed officers, while numerous CCTV cameras at strategic external locations complement systems located in all University buildings. In addition, all residences have security door entry, emergency telephones, Student Support Assistants and bicycle storage facilities. For further information, please visit *www.dundee.ac.uk/prospectus/security*

12. How does my child apply for a place in student residences?
Applications for student residences are sent out by the Admissions Team via email normally from April onwards to any students who firmly accept their offer at Dundee. Students can list preferences on their application and the Residences Office will do their best to accommodate their needs.

applications

13. Once an application is submitted through UCAS, how quickly will a decision be made?

Please see 'making your application' on page 32 which explains how we deal with each application.

14. If applying for a vocational degree, how much work experience is required?
For some degree courses, prior work experience is essential to prove that you can cope with various elements of the course. The type and amount of commitment that a prospective student employs will depend on the course to which they are applying. A general rule would be to gain as much experience as possible; there should be no ceiling on learning. In many cases, our vocational degrees are high demand courses and each prospective student is in competition for their place. The more work experience they are involved in, the better the opportunity to highlight their suitability for their chosen role.

15. My child has not met the requirements for medicine/dentistry/education etc. What can they do now to achieve a place on the course?
If a prospective student is unsuccessful in their application but is determined to enter their chosen profession they have a few options. Firstly they should gain feedback on their application and/or interview and ascertain the reasons for their initial unsuitability. They can ask advice on what they can do to give them a better chance at re-application. They could consider sitting a related first degree and pursuing their professional qualification at postgraduate level e.g. sitting a life sciences degree and then studying medicine as a graduate student. Finally, they could consider a related profession e.g. if the student is keen on the health professions, they could consider a career in nursing as an alternative to medicine.

induction

16. How can my child best prepare for starting university?
We give all applicants access to *My Dundee for Applicants*, our virtual learning environment, as soon as we receive their application. We advise applicants to log on regularly to check for additional information about their course, the campus etc throughout the application process.

During the summer we start to add information about reading lists, welcome events, matriculation and activities in Welcome Week so that all our new students can be as well prepared as possible before they arrive. The discussion forum feature on *My Dundee* also allows applicants to communicate with each other online, and many new students 'meet' their flatmates virtually before setting foot on campus!

17. How can I find out more about what life will be like for my child at Dundee?
During the first weekend of Welcome Week we run presentations for parents, guardians and other family members to give an overview of student life at the University of Dundee. These 'Freshers' Families Facts' sessions will be advertised on *My Dundee* and all are welcome to come along and ask any questions you might have.

18. My child will be living at home, not in university accommodation, and I'm concerned they will feel isolated in Welcome Week.
Before the start of Welcome Week, we invite all new students who live in the local area to come to an informal welcome evening on campus. This allows students who live at home to meet each other before classes begin.

studying

19. How many hours per week should students allocate to their studies?
This question is course specific but, in general, Level 1 students should expect to spend 40 hours per week on their studies, including contact time (lectures, tutorials etc), preparation, assessment and revision.

20. How many students do you teach?
At Dundee we teach around 18,000 students. Approximately 9,000 of these are undergraduates.

21. How many students apply for advanced entry each year?
Approximately 10% of our applicants apply for advanced entry.

22. What measures are in place to help my child if they fall behind in their studies?
Every student is assigned an Advisor of Studies to ease them through all academic matters during their university career. In times of difficulty their Advisor would be their first port of call.

The University's Academic Achievement Teaching Unit offers a number of courses and opportunities to improve upon academic skills. To find out more, please visit: *www.dundee.ac.uk/aatu/ug.htm*

graduation

23. How many graduates enter into employment following graduation from Dundee?
92% of our graduates enter employment or further study 6 months after graduation. Approximately 76% go into graduate-level jobs, ranking the University in the Top 35 by the Sunday Times University Guide 2012. For more information please visit: *www.dundee.ac.uk/careers*

24. What level of starting salary can my child expect following graduation from Dundee?
Starting salary will be dependent on the course and career that a student has chosen. The Sunday Times University Guide 2012 quotes the University of Dundee as having the highest graduate starting salaries in Scotland and 11th in the UK, with an average first job salary of £23,311.

school & careers staff

information & services available to careers advisors

Admissions & Student Recruitment staff are keen to ensure careers advisers are provided with all the information needed to allow applicants to progress to university easily and happily. We work closely with staff in schools, sixth-form colleges, further education colleges and careers organisations providing information, advice and guidance.

Our team of experienced Liaison Officers is very happy to visit your school or college and deliver a range of engaging presentations to your students.

Popular presentations include:

- 'The Benefits of Higher Education'
- 'Application Procedures and Completing the UCAS Application'
- 'Preparing for Interview'
- 'Student Life'
- 'Student Finance and Welfare'
- 'Alternative pathways into HE'

Our Liaison Officers are an integral part of the admissions process and are therefore excellently placed to advise students on their UCAS application and the personal statement in particular.

We also offer a range of interactive workshops, from sessions on student finance to aspiration raising workshops with younger pupils who may otherwise not consider further study.

Alternatively, the team will visit your careers or parents' evening to offer information on the University of Dundee's many undergraduate courses and our entry requirements. Our pocket-sized *Guide from Application to Arrival* has been used by many schools to give parents specific information about the whole application process.

access for all

Becoming a student is an exciting and challenging decision. To help potential students through this important phase we offer specific activities geared towards widening participation. Our Liaison Team are available to speak to you and your colleagues, or directly to pupils, about these initiatives – DUAL Summer School, Discovering Degrees for Schools and our online programme, Discover Learning at Dundee. Please see page 143 for more information or find out more online:

DUAL summer school -
www.dundee.ac.uk/prospectus/dual

discovering degrees for schools -
www.dundee.ac.uk/prospectus/discoveringdegrees

discover learning at Dundee -
www.dundee.ac.uk/prospectus/discoverlearning

We hope to develop closer links with our careers colleagues and enhance the range of services we currently offer to schools and colleges. We encourage all careers staff to contact us if there is any other service you would like us to offer.

tel: 01382 384026
email: recruitment@dundee.ac.uk
www.dundee.ac.uk/prospectus/schools

support services

The University of Dundee offers a wide range of services to support our students. This can include academic, personal or financial support and guidance and is delivered by the following teams. Please see the individual websites for more information.

We also work closely with the Students' Union (DUSA) to complement the support that they offer and we have a team of staff based in DUSA who are the first point of call if you have any queries or are just not sure who you need to speak to.

academic skills

www.dundee.ac.uk/aatu

The Academic Achievement Teaching Unit (AATU) works closely with Schools by providing in-course tuition in a range of learning skills as these apply to your modules and related coursework. In addition, AATU can help you individually with personal tutorials on making and taking notes, academic reading, all aspects of academic writing including essay, report, projects, dissertations and theses, preparing for exams and resits, making presentations, time management and general academic development.

advice team

Our Advice Team is based in DUSA and are the first point of call for any student queries. In addition they organise a range of events and activities throughout the year.

email: advice@dundee.ac.uk

careers

www.dundee.ac.uk/careers

The Careers Service aims to enhance the employability and career development of University of Dundee students and graduates. Please see page 16 for more information.

email: careers@dundee.ac.uk

chaplaincy

www.dundee.ac.uk/chaplaincy

The Chaplaincy Centre is situated right in the heart of the city campus and its facilities and resources are available to students of all faiths or none. You don't have to be religious to visit the Chaplaincy; it is a relaxing and friendly place and hosts many social activities during semester-time.

In fact, during the course of a normal week over 2,000 people use the Chaplaincy ranging from mature students, religious groups, University choirs, discussion groups and debates to the occasional ceilidh.

Facilities include a chapel, a coffee bar, quiet room and meeting room. During Welcome Week and throughout the semester the Chaplaincy holds various events, so please come in and see what is on offer. We provide a multicultural and supportive environment so whoever you are and wherever you come from you will always be welcome in the Chaplaincy.

counselling

www.dundee.ac.uk/counselling

The Counselling Service offers students the opportunity to talk over a worry with someone in confidence. It isn't just a place to come when you experience problems. The Counsellors can help students settle quickly into life at university, enjoy the challenge and fun of university life and be effective in their academic work.

email: counselling@dundee.ac.uk

disability
www.dundee.ac.uk/disabilityservices

All disabled students are encouraged to contact Disability Services as soon as possible to enable the provision of support to meet their individual disability-related needs. This includes specialist support for students with dyslexia and those with mental health difficulties. Dedicated IT facilities with a range of assistive technology are also available, as is confidential advice on a wide range of disability issues from our team of friendly professional staff.

email: disability@dundee.ac.uk

international advice service
www.dundee.ac.uk/international/support

Our International Advice Service helps our international students settle into Dundee by organising cultural excursions and opportunities to meet other students during the first few weeks, and is available to give advice on a range of issues such as visa extensions throughout the year.

Previously, our international students have enjoyed a Scottish Ceildh (dance), a visit to Glamis Castle and a weekend trip to the Highlands.

email: internationalsupport@dundee.ac.uk

nursery
www.dundee.ac.uk/studentservices/childcare

The nursery is supervised by qualified staff and cares for children aged 2-5.

It is open from 8.15am to 5.15pm. However, places are limited and if students have young children and would like to use the nursery on a morning, afternoon, full-day or part-week basis, they should apply early to reserve a place.

peer connections
www.dundee.ac.uk/studentservices/pconnect

Peer Connections is a welcoming, buddying and mentoring scheme open to all students to help you settle in, show you around, meet, mix and share information and experiences with other students.

Peer Connectors are trained student volunteers who will listen to any concerns you have, provide support and give information.

They are around throughout the year on campus, in the student residences and run regular drop in sessions. Peer Connections organises buddy groups for new students and also offers pre-arrival contact.

email: peerconnections@dundee.ac.uk

student funding
www.dundee.ac.uk/studentfunding

The Student Funding team provides information, advice and guidance on various aspects of student funding specifically and on money matters in general. All prospective and current students are encouraged to access their services.

They offer a wide range of advice on issues such as:

- applying for student funding
- the student loan system
- the Higher Education Discretionary and Childcare Funds
- student bank accounts
- debt issues.

email: studentfunding@dundee.ac.uk

student support worker
www.dundee.ac.uk/studentservices/supportworker

Primarily focused on new students living in university accommodation, the Student Support Worker deals with well-being issues arising during the transition to university life and provides referral to other support services as required Each residence has a Student Support Assistant who deals with any issues which affect the welfare of residents, such as loneliness, flat disputes, or noise-related issues.

university health service
www.dundee.ac.uk/healthservice

The University Health Service offers assessment and treatment of both general and mental health problems, as well as advice on a range of health related topics. Appointments are available daily during the semester by arrangement. A confidential mental health nursing service is also available. The University Health Service operates in addition to the facilities provided by the National Health Service and, as many specific treatments can only be accessed via your own doctor, students must register with a local General Practice when they arrive in Dundee.

useful contacts & dates

general information & prospectus enquiries

enquiry centre

Admissions and Student Recruitment
University of Dundee
Nethergate
Dundee DD1 4HN
tel: +44 (0)1382 383838 **fax:** +44 (0)1382 388150
email: contactus@dundee.ac.uk
website: *www.dundee.ac.uk/undergraduate*

clearing

Visit our course vacancies web page during August and September at: *www.dundee.ac.uk/clearing*

course information - admissions enquiries

email: contactus@dundee.ac.uk

university of dundee main switchboard

tel: +44 (0)1382 383000 **email:** university@dundee.ac.uk
website: *www.dundee.ac.uk*

international office

tel: +44 (0)1382 388111 **fax:** +44 (0)1382 385500
email: international@dundee.ac.uk
website: *www.dundee.ac.uk/admissions/international*

UCAS contact details

Customer Service Unit
UCAS, PO Box 28
Cheltenham, GL52 3LZ

UCAS telephone enquiries

Open Monday to Friday, 08:30-18:00 (UK time).
For callers in the UK: 0871 468 0 468
For callers outside the UK: +44 871 468 0 468

For callers with hearing difficulties

> from the UK use the Text Relay Service on 18001 0871 468 0 468

> from outside the UK dial +44 151 494 1260 (text phone) and then ask the operator to dial 0871 468 0 468 UK

BT landline calls will cost no more than 9p per minute. Calls from mobiles and other networks may vary.

email: enquiries@ucas.ac.uk

website: *www.ucas.com*

important dates

applications for medicine and dentistry

Please note that the closing date is 15 October 2012

applications for all our other courses

Please note that the closing date is 15 January 2013

semester dates (2013/14 academic year)

- Welcome Week: 2nd – 8th September 2013
- Semester 1: 9th September - 13th December 2013
- Semester 2: 13th January – 23rd May 2014
- (Easter Vacation) 31st March – 21st April 2014

visit opportunities

Our organised visits are an excellent way for you to see the University before you apply. Everyone is welcome to attend including school students, college students, parents, teachers and careers advisers. Booking is essential for all our visits. Further information and booking details can be found at *www.dundee.ac.uk/prospectus/visits*

main visit days

Wednesday 29 August 2012 & Saturday 29 September 2012

Please check our website for a full list of subjects which will be available to visit on these days.

Wednesday 20 June 2012 & Wednesday 29 August 2012

> Medicine

Wednesday 13 June 2012 (tbc) & Wednesday 29 August 2012

> Dentistry

Tuesday 30 October 2012 & Wednesday 31 October 2012

> Duncan of Jordanstone College of Art & Design (djcad)

individual visits

While we encourage everyone to come to one of our main visits we recognise that this is not always possible. Individual visits take place almost every month. These visits include a tour of the city campus and university accommodation led by a Student Ambassador. Unfortunately they will not include departmental visits. Visit *www.dundee.ac.uk/prospectus/visits* for more information.

applicants' visits

Unless you have been asked to attend for interview before an offer is made, you will receive an invitation to visit us after we have offered you a place and before you need to make a decision. Applicant visits usually take place in February and March each year with additional dates held in April. These visits are designed for you and your parents/guardians to visit the academic subject you have applied to, talk to academics and students and view our facilities. Further details will be sent to applicants once an offer is made.

For further information on all of our visits please contact:
Admissions and Student Recruitment
tel: 01382 385660 • **email:** visitus@dundee.ac.uk
www.dundee.ac.uk/prospectus/visits

keep in touch online

You don't have to wait for a visit day to find out what's happening at the University of Dundee. You can also keep up with us online at:

twitter *@DundeeUniv*

facebook *www.facebook.com/UniversityofDundee*

YouTube *www.youtube.com/DundeeUniv*

yougo further *http://yougo.co.uk*

Register for an online chat with staff and current students at *www.dundee.ac.uk/prospectus/webchats*

where we are

Dundee to...

- Edinburgh 64 miles (100km)
- Aberdeen 66 miles (106km)
- Glasgow 85 miles (136km)
- Belfast 220 miles (352km)
- Manchester 300 miles (482km)
- Birmingham 373 miles (596km)
- London 475 miles (765km)
- London City Airport to Dundee 1 hour
- Kings Cross Station to Dundee 6 hours

by air

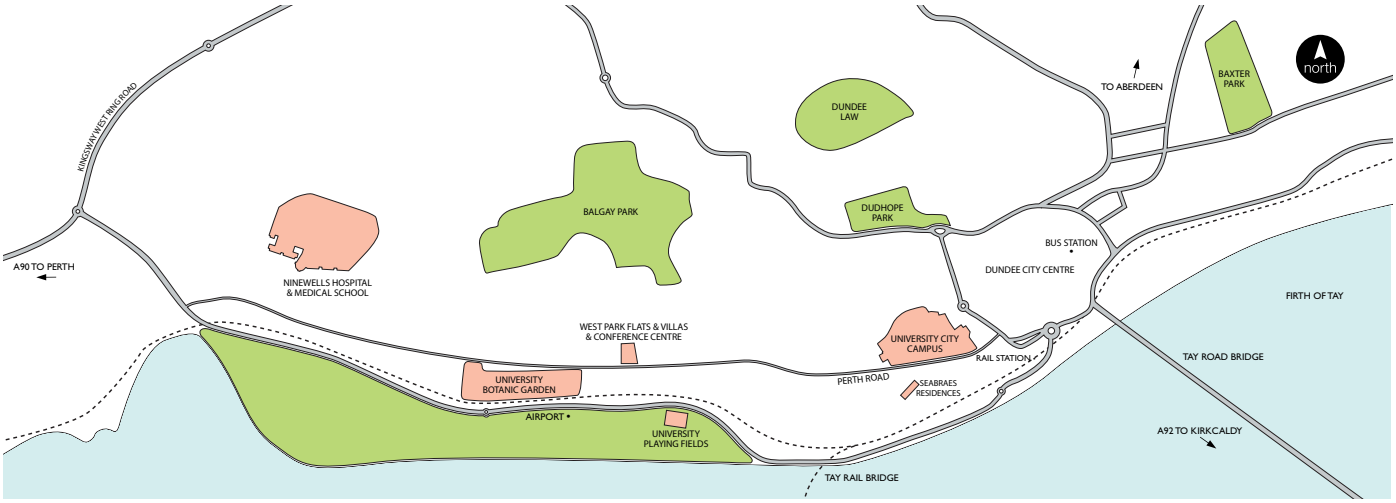
Dundee Airport (just 5 minutes drive from the University) runs daily scheduled flights to London (City), Belfast and Birmingham. Alternatively, Edinburgh International Airport provides a wider choice of destinations and is just an hour's drive away.

by train

Dundee is on the main East Coast route with direct services to Newcastle, York and London amongst others. Rail journeys to the other major cities in Scotland (Aberdeen, Edinburgh & Glasgow) take approximately 75 minutes. The train station is just a few minutes walk from the University.

More detailed information can be found on our website:
www.dundee.ac.uk/general/travel

Dundee Area Map showing the location of the University

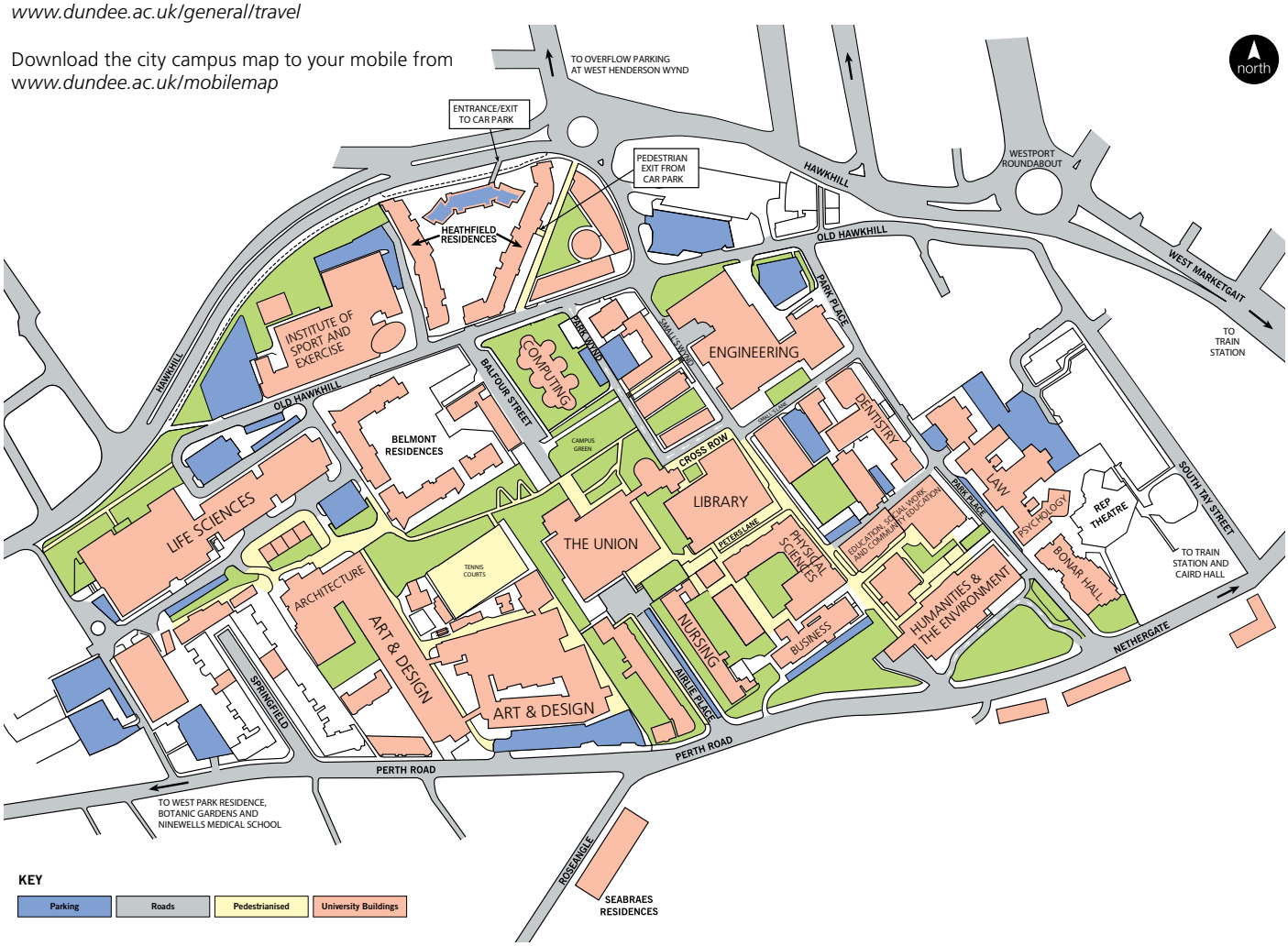


city campus map

- with main location of Academic Schools shown

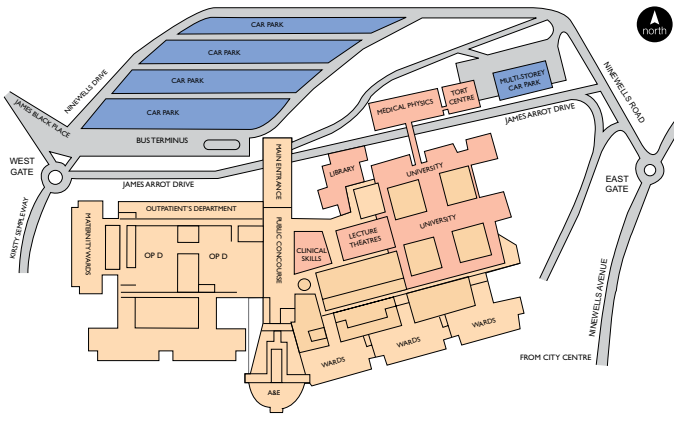
SatNav ref: DD1 4HN
For further directions and information please see
www.dundee.ac.uk/general/travel

Download the city campus map to your mobile from
www.dundee.ac.uk/mobilemap



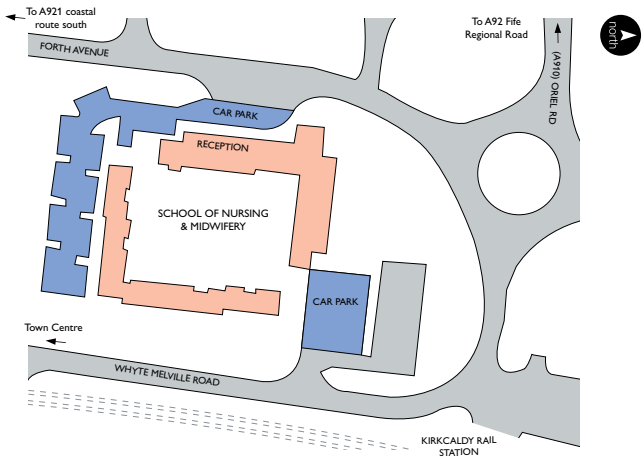
Ninewells Hospital and Medical School

SatNav ref: Ninewells Hospital or Ninewells Drive



School of Nursing & Midwifery, Fife Campus (Kirkcaldy)

SatNav ref: KY2 5YS



index

courses offered are shown in bold






Students Association
Tower Building
Chaplaincy
Library
Old Medical School
Life Sciences
Caird House
Old Technical Institute





















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A large print version of this prospectus is available on request by calling **+44 (0)1382 383838**. This prospectus is also available in a variety of formats online. Please visit **www.dundee.ac.uk/undergraduate/prospectus.**

The University of Dundee is committed to promoting and developing an inclusive and supportive environment in all its practices, which is free from unfair discrimination and will enable staff and students to fulfil their full potential.

The University of Dundee values the diversity of its staff and student body and therefore aims to create an environment where staff and students are treated fairly and with dignity and respect, irrespective of age, disability, gender, gender reassignment, sexual orientation, race, ethnicity, nationality, religious or political beliefs, socio-economic background, marital status, civil partnership or other irrelevant distinction.

The University reserves the right to make changes in regulations, syllabuses, etc. without prior notice at any time before or after an applicant's admission.

Every effort will be made, however, to inform applicants or students at the earliest opportunity of the withdrawal of a course or of an option within a course.

The University of Dundee encourages applications from all sections of the community.

Admission to the University is subject to the condition that a student will comply with the University's matriculation requirements (including the prompt payment of tuition and other fees) and will observe the Charter, Statutes, Ordinances and Regulations of the University.

If you consider that any information in this prospectus is misleading and wish to complain about this you can write in the first instance to the University Secretary outlining your grounds for concern. The matter will be investigated by the Academic Standards Committee of the Senate and you will be notified of its findings. If appropriate, action will be taken to correct information deemed to be misleading.

The information given in this prospectus was correct at the time of going to print (January 2012).

“The University of Dundee is… an institution regarded as one of the success stories of British higher education.”

The Sunday Times University Guide 2011

www.dundee.ac.uk

tel +44 (0)1382 383838