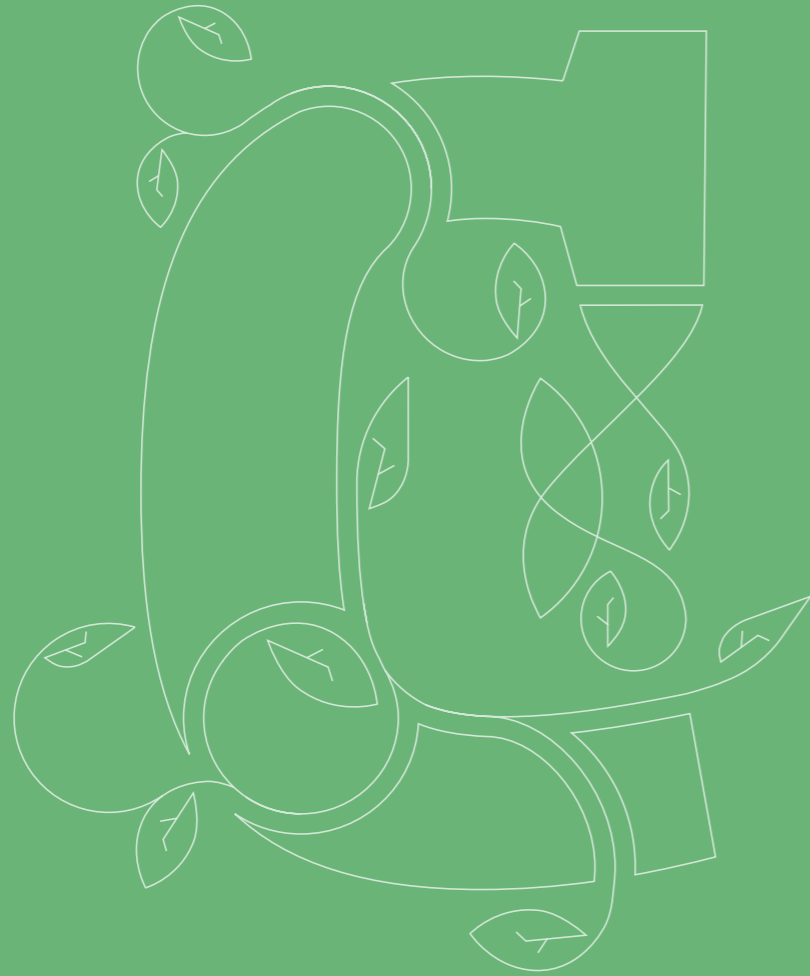




THE BOOK OF KEELE

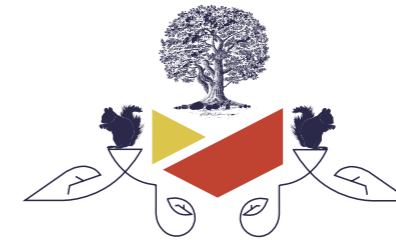
2013 Undergraduate Prospectus





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Why Keele?

Keele University offers a very special experience and one that could become an important part of your life story. Our beautiful and spacious green campus is home to a genuine and supportive community of students and staff.

We offer high quality teaching and support for learning, backed up by research excellence in all subjects. Keele also has a lively social life centred on the Students' Union, sports and societies. We don't think you'll find a more supportive or friendlier university.

When you choose your university, you will be looking for a course that provides stimulating teaching and learning and helps you develop skills for your future career. Keele teaches a wide range of academic and vocational subjects and through our degrees you have the choice of over 500 subject combinations, alongside the option for specialisation in your studies. We also offer professional Single Honours courses in Medicine, Health, Law, Business and Humanities subjects, where students benefit from the latest training in these areas.

Graduates from Keele have gone on to a range of careers, and we can count leading barristers, broadcasters, politicians, writers and even pop stars among our alumni.

We hope you enjoy reading this prospectus and find it useful. If you would like more information, please email us at home-euadmissions@paa.keele.ac.uk (UK/EU students) or international@mac.keele.ac.uk (international students) or go to www.keele.ac.uk/undergraduate



Chapter 1 - Studying

At Keele we offer you choice in your learning. Our Dual Honours degrees allow you to study two degree subjects, in equal amounts, over three years. You get the same depth of knowledge in each subject as you would if you took it as a Single Honours degree, with choices of options in each subject.

Dual Honours is something we really believe in at Keele, because it broadens not only your studies, but also your career prospects. We offer over 500 possible combinations, so you can shape your degree around the things that interest you the most. We also offer the option to take two subjects with greater specialisation in one of these: these are called Major-Minor degrees. You can tailor the amount of study in particular subjects during your degree, to reflect your changing interests and ideas for your future career. And for professional courses, you can study specialist Single Honours degrees.

What will it do for me?

The Keele degree will widen your horizons and expand your opportunities. The challenges facing today's world are complex and fascinating. Solving them takes people who understand different disciplines and can work with others to make things happen. For example, tackling climate change requires politicians, sociologists, geographers, biologists and environmental scientists to understand each other and work

together. Closer to home, anyone working in business needs to understand the potential and pitfalls of IT systems. The Keele degree offers you the opportunity to make these connections.

We are passionate about the Keele degree because we really feel it gives the best start to your career, not to mention a stimulating student experience. You will graduate from Keele with a broad, deep knowledge of your degree subjects, and with Dual Honours you will have double the skills and double the possibilities open to you, as all our combinations are fully recognised by employers, the professions and other universities, not just in the UK but across the world.

For example, if you take English and Biology, you could train to be a teacher in either subject, do a Masters or PhD, or combine your subjects and go into something like science journalism. You could also opt for other graduate jobs like management, law, accountancy, public administration or marketing. The flexibility your degree gives you will stay with you for life, helping you move in all sorts of rewarding directions.





Developing your skills

Please note that this section does not apply to students taking Medicine, Nursing, Midwifery, Operating Department Practice, Pharmacy, Physiotherapy, Social Work or Dual Honours Science courses.

We also offer students the chance to take modules outside of their main degree subjects: we call these “electives”. This is the part of the degree that you can design to fit with your own ambitions, interests and intellectual curiosity. You can use this choice in all kinds of ways:

- Learn more about your main degree subjects by taking additional modules
- Try out another degree subject. If you prefer this, it may be possible to change your degree course
- Learn a language (see page 13)
- Develop your skills, for example through modules in volunteering, personal development or entrepreneurship
- Just choose a subject that has always fascinated you, such as astronomy or sociology
- Study your subjects at one of our 55 partner universities for a semester

The choice is yours: all you need to ensure is that by the end of your three years you have obtained a certain level of knowledge (credits) in your principal subject/s in order for you to be awarded your named degree. Your tutors will guide you in your choices.

Our website www.keele.ac.uk/electives will give you an idea of the electives you will be able to choose from in each year of study and also specifies the minimum credits you need to achieve for each degree.

How to choose?

The great thing about the Keele degree is that there is no need to compromise. You can continue

with subjects that you’ve studied at school or college, or try something completely new. You can pick a combination that will lead directly to a career, or have one vocational subject and one that is more academic. You can pick similar subjects or go for two that are completely different.

The subject descriptions are given alphabetically in this prospectus, so turn to one that you are interested in and you’ll find a list of all the other subjects you could combine it with, including Major-Minor options. Each subject description is one half of the Dual Honours, so, if you’re interested in studying Politics and Sociology turn to Politics on page 243 and then to Sociology on page 259.

POPULAR COMBINATIONS

Criminology & Psychology

English & History

Neuroscience & Psychology

Business Management & Finance

Geology & Physical Geography

Philosophy & English

Biology & Forensic Science

Marketing & Media,
Communications and Culture

History & Politics

OR SOMETHING MORE UNUSUAL...

Geology & Music

American Studies & Forensic Science

Mathematics & Sociology

Astrophysics & Politics

Learning facilities

Library Services

There are two libraries: one on the Keele campus, and one on the Hospital campus (University Hospital of North Staffordshire) which supports Nursing and Midwifery students, and Medical students during years 3-5.

Library Services at Keele include:

- Online books, journals and subject resources – most also available off-campus using a single login
- Printed journals and books
- Online catalogue to check for books and renew your loans
- Variety of study spaces (Campus Library)
- 24-hour opening of the Campus Library building at selected times of the year
- Enquiries services at both libraries
- Induction and training sessions delivered at both libraries

For more information please visit:

www.keele.ac.uk/library/

Computing Services

Computing services for Keele students include:

- Your own Keele username and password, giving you internet access and archived document storage facilities
- Open access PCs in the Library and in some Schools, linked to high-speed colour printers
- Wi-Fi in the Library and in central teaching rooms, and parts of the Students’ Union
- Free broadband internet access in each study bedroom (the ‘HallsNet’ service)
- The Keele Learning Environment (KLE), where you can get enhanced course content for your studies, submit your work online and use virtual group study facilities such as chat rooms and messaging
- Help and advice from the IT Service Desk in the Library, seven days a week
- These services are supported by the IT department that is based in the Library building. For full details go to www.keele.ac.uk/it/

SOMETHING YOU'D LIKE TO SPECIALISE IN?

Accounting and Finance

Actuarial Science

American Studies

Biomedical Science

Business Economics

Computer Science

Criminology

English

English and American Literatures

Environment and Sustainability

Geography

Geoscience

Information Technology Management
for Business (ITMB)

Law

International Relations

Management

Mathematics

Medicine

Midwifery

Music

Music Technology

Nursing

Operating Department Practice

Pharmacy

Philosophy

Physiotherapy

Politics

Social Work

Sociology

These courses bring together a number of subject areas in an integrated way. For instance, Business Economics combines the study of management, economics and finance, while American Studies covers politics, literature, history and sociology.

“I spent a semester studying abroad at Oklahoma State University (OSU) and it was undoubtedly the best time of my life. When you apply to study abroad, you think it’s going to be fun, but you never imagine it’ll change your life and become part of who you are in so many ways. Not only did I enhance my degree by taking classes that were so different to the ones at Keele, I delved into the heart of American culture, became heavily involved in OSU campus life and discovered what it means to be a true ‘Cowboy’! I made amazing friends from over fifteen different countries and have enough memories to last a lifetime. My experience inspired me to become a Peer Adviser when I returned to Keele, so now I am able to help students make their own Study Abroad adventure just as incredible as mine.”

Helen Jackson

International experiences

The Study Abroad programme at Keele offers you the chance to live in a different country and culture and will give you the skills, experience and confidence to tackle new situations.

Keele’s Study Abroad programme lets students swap a semester of their second year for a semester studying at one of our partner universities – in the US, Canada, Australia, South Africa, Botswana, Malaysia, Malta, Turkey, The Netherlands, Sweden, Norway, Iceland, the Czech Republic, Korea or Hong Kong (which countries are available depends on your degree subjects). Although we encourage you to learn another language (see page 13) you do not need to speak a foreign language as all the partner universities provide teaching in many subjects in English. For languages such as Dutch, Turkish, Norwegian or Swedish there are in-country courses for you to follow prior to starting your studies.

If you spend a semester abroad you will pay your tuition fees to Keele for that time, but you do not pay any extra tuition fees to the partner university. It costs more to study abroad, mainly because of the costs of travelling abroad, visa costs and insurance, and partly because of the higher cost of living in some countries, but also because you will want to take the opportunity to travel round and explore a new country. If you elect to study abroad in another part of Europe, you will be eligible for an ERASMUS grant to offset some of these extra costs.

There is a Study Abroad Fair at Keele each October so that you can find out more details about the options available to you.

For further information, including details of our current partner universities contact:

Keele International, Study Abroad, Keele University, Staffordshire ST5 5BG

Email: studyabroad@mac.keele.ac.uk
or visit www.keele.ac.uk/studyabroad

At the Fair you can speak to students from Keele who have studied abroad, and to students from the partner universities who have come to Keele as part of the exchange programme. Our Study Abroad Manager helps students to prepare for their semester abroad and is available throughout the year to answer queries.

If you intend to study abroad, you must register for a first-year elective module in *Intercultural Communication*, which will take you through the application and visa process, as well as preparing you thoroughly for the cultural experience of living and studying in another country.

Single Honours students in International Relations, Politics, American Studies and English and American Literatures can spend a semester or a full year at specific partner universities in Canada or the US respectively.

Life Science students can take part in the ERASMUS work placement programme and spend a year in a laboratory in one of 16 different institutions in Europe. Details are available on the Keele International: Study Abroad website (see below). If you do not wish to spend a whole semester abroad, Keele also has a variety of short-term study opportunities in Singapore, Korea and the US for specific subjects.

Keele also offers bursaries to support students taking study abroad (see page 44).

Learn a language

Keele offers the exciting opportunity to learn a new language alongside your degree subjects.

Keele offers the exciting opportunity to learn a new language alongside your degree subjects.

Whether you are an absolute beginner or already have some knowledge and wish to improve, we have a class for you. The range of languages available at different levels includes French, German, Spanish, Russian, Japanese and Chinese.

You can take a single semester taster course or study a language over two or three years during your time at Keele and get an additional formal qualification.

Being able to speak a foreign language is a huge advantage, not only for jobs that will have international contacts, but for all careers. Learning a foreign language means that you learn about the mechanisms of your native language and communication in general, and employers rate communication as one of the top skills they are looking for.

Keele Certificate of Language Competence

If you take a chosen language for at least two years at Keele and pass specific levels, you will be awarded the Keele Certificate of Language Competence or the Keele Certificate of Advanced Language Competence, depending on your entry level. The Keele Certificate is awarded at no extra cost to eligible students in addition to their main degree and has proven a valuable qualification on students' CVs.

It's fun!

Our language classes are taught by experienced native-speaker tutors in workshop style, where you actively participate in every class. The emphasis is on developing communication skills you'll need for real-life situations, whether for work or fun, with emphasis on language that is truly relevant and useful. You will be in a community of fellow learners sharing your enthusiasm and drive, typically for two hours per week in the classroom, and also connected outside class hours via our extensive Keele e-learning sites.

Summer language and culture courses abroad

Students who have successfully completed one semester of language study have the opportunity to practise and improve their language skills during the summer vacation, by participating in specially designed study programmes at selected partner universities abroad. Hugely popular language and culture courses are currently on offer in Japan (Kyoto), Spain (Madrid), Russia (Tver), France (Aix-en-Provence) and Germany (Lüneburg). The courses are typically two to four weeks long and combine intensive language training with a wide range of culture and leisure activities, such as excursions or films and sports events.

English language classes

Students whose first language is not English also have access to a range of English language classes and language support as part of their degree. For further details, please see page 295.

Certificate in Teaching English as a Second Language (TESOL)

If you are thinking of travelling the world after your degree, why not do that and teach English? At Keele you have the opportunity to take practical modules in Teaching English to Speakers of Other Languages, leading to the internationally recognised CertTESOL English language teaching qualification which is accepted throughout the world. With the CertTESOL, our graduates have taught English in Thailand, Japan, Korea, Vietnam, Spain, Italy, China, and Germany as well as in summer schools in the UK.

In addition to having increased earning potential by the end of your second year at university, you will be developing valuable skills and your confidence, giving you an edge in today's challenging job market.



For further details regarding Modern Foreign language courses or the CertTESOL, please contact: The Language Learning Unit

Email: languages@lang.keele.ac.uk

Tel: 01782 733960

www.keele.ac.uk/llu



Chapter 2 – Forever Keele

The Keele degree will help you develop the skills, experience, knowledge and reflection for a successful future. Our Careers and Employability Service helps you take the next steps.

The Careers and Employability team at Keele will help you to explore your options and to make an informed choice about a career. There are one-to-one guidance drop-ins, career-related events including workshops and employer visits, confidential careers interviews and a resource room where you can get additional information to help you make appropriate plans and put them into action.

Employers are increasingly demanding and are looking for people with interpersonal skills, team-working abilities, flexibility, adaptability and excellent communication skills. The Careers and Employability team will help you to think through how you have developed these skills and how to present these when you start graduate applications. Our careers advisers are always happy to discuss ways in which your skills profile can be strengthened. In particular, they will help you identify suitable work experience opportunities, which may include structured internship programmes, work shadowing and volunteer work.

All students are encouraged to visit Careers and Employability early on in their undergraduate course. You are welcome to use the many services on offer as often as you need them.

Careers and Employability

Walter Moberly Building
Keele University
Staffordshire ST5 5BG

Tel: **01782 733023** or **01782 733523**

Email: careers@keele.ac.uk

www.keele.ac.uk/careers/

Find us on Facebook and follow us on Twitter

First destination of Keele graduates in 2009/10*

Employment	64%
Work and further study	9%
Further study only	17%
Seeking employment	5%
Not available (e.g. travelling)	2%
Explicit refusal	3%

*Destinations of UK-domiciled students six months after graduation; percentages are based on graduates responding to the Destination of Leavers from Higher Education Survey undertaken by Keele University. Figures for 2011 graduates were not available at the time of printing.

Keele graduates

Neuroscience & Psychology
to Trainee Neurotherapist at
Addenbrooke's Hospital

Law & International Relations
to Political Researcher, British Council

Business Management & History
to Graduate Management
Trainee, Cross Country Trains

English & Philosophy
to Senior Information Officer,
Cheshire East Council

Media, Communications & Culture
to Production Assistant,
Welded Tandem Picture Company

Biomedical Science
to Medical
Scientific Officer, North Staffordshire
NHS Trust

Human Resource Management & Marketing
to Sales Manager,
Phones 4U

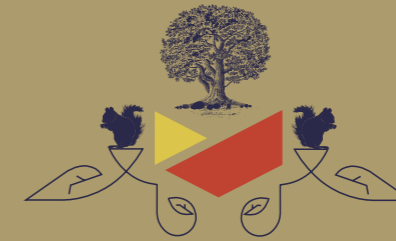
Geology & Physical Geography
to Geoscience Researcher,
Hannon Westwood

Chemistry & Forensic Science
to Forensic Scientist, Forensic
Science Service



At Keele we offer you the chance to make a difference. You can volunteer to work in the local community, mentor students in local schools, run a student society, or represent students' views on University committees. You could even run the Students' Union...





Chapter 3 – Your story begins

With over 600 acres of landscaped parkland, fields, woodlands and lakes, Keele is the UK’s largest and most beautiful campus university.

Keele University’s campus gives you the best of both worlds. Tranquil lakes and woodlands give way to a buzzing centre of shops, the Students’ Union, cafés and restaurants. Modern teaching and living blocks contrast with 19th-century Keele Hall and the Clockhouse.

Keele University (originally founded as the University College of North Staffordshire in 1949) has its main campus on a beautiful parkland site in North Staffordshire.

The campus is self-contained, with student and staff residences, all teaching buildings (except for some health courses), the Library, a restaurant and cafés, the Students’ Union, shops, a bank, a sports centre and a health centre.

The local area

Newcastle-under-Lyme – a fifteen-minute bus ride away – is a market town which has a variety of speciality shops and a lively scene of café-bars, pubs and restaurants. For culture there is a multi-screen cinema and the New Victoria Theatre. Hanley (one of the six towns of Stoke-on-Trent) has all major high street stores plus nightclubs and bars and the Regent Theatre.

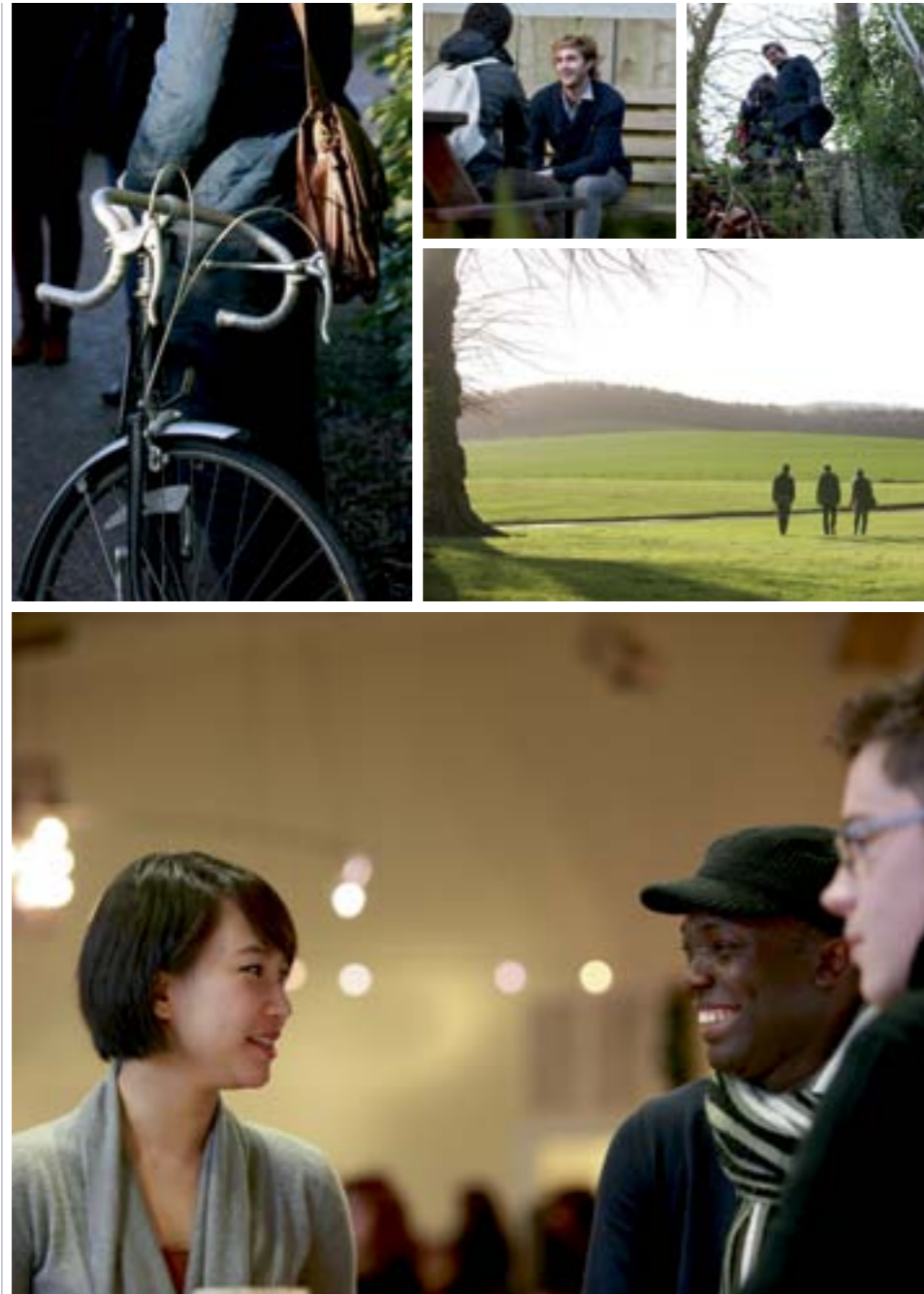
The Staffordshire region has areas of great natural beauty in the Staffordshire Moorlands and Southern Peak District, where you can walk or climb or just get away from it all. The M6 and West Coast main railway line run close by so it is easy to travel to all parts of the UK from Keele. For instance, Manchester and Birmingham are each just over one hour’s drive from campus, and London is less than two hours away from Stoke rail station.

The only way really to experience the Keele campus and community is to visit and we strongly encourage you to come to one of our Open Days (see page 38 for dates).

Home from Home

Living in Halls is an important part of the student experience: you will have great fun and make lifelong friends.

There are five Halls of Residence at Keele, each with its own character and with different room types to suit a variety of budgets, ranging from single rooms sharing bathrooms and kitchens, to rooms with en-suite facilities. The accommodation is grouped into flats, houses and traditional student accommodation blocks.



Halls are not simply a place to live; they provide a focus for social life. Each Hall has a student-run council that organises a range of events including party nights, films, quiz nights and sports events and all Halls have alcohol-free common rooms; some have the more traditional student bar. Halls also have their own welfare support for students: resident tutors (usually a postgraduate student) live in each Hall and are responsible for the wellbeing of students living there. Resident tutors are on call throughout the night and at the weekend and are supported by a dedicated team of residential managers who provide 24-hour cover and have a wealth of experience in welfare and support services.

All Halls of Residence have kitchens so there is no excuse for not cooking! You will need to bring pots and pans, cutlery and a tin opener but don't worry, the kitchens have cookers, fridges and freezers. You can buy food at the Campus Store, a licensed supermarket that has fresh fruit and vegetables, pasta and rice, spices and ready meals plus a good range of authentic ethnic foods and other grocery essentials.

There are also three smaller shops on campus: Shop@Hawthorns near the Templar Bar adjacent to Hawthorns Restaurant in Keele village, at Lindsay's Café Bar and a shop in the Students' Union. Every Tuesday there is a fresh food market held outside the Students' Union. There are also three large supermarkets just a bus ride away in Newcastle-under-Lyme, plus markets and specialist food shops locally.

The great thing about living on campus is that there are no hidden extras – the rent includes utility bills, internet access and insurance. And you're on the doorstep for lectures, using the Library and visiting the Students' Union.

Many students live off campus and rents in the local area are among the cheapest in the country. The Student Accommodation Office and the Independent Advice Unit (IAU) in the Students' Union provide advice and support in finding suitable rooms locally and the IAU provides a Housing Pack and information sessions about moving off campus. The accommodation available locally is advertised on www.keelestudentpad.co.uk

Taste:Keele

At Keele you will always be able to eat well.

Comus Situated in the heart of the campus, this stylish refectory offers a wide range of dishes from around the world as well as lighter meals and snack items. You can relax with friends and enjoy a variety of offers in this informal environment.

Le Café Located in the Chancellor's Building and the Medical School, these trendy coffee shops offer cakes, sandwiches and refreshments that will leave you revitalised and ready for the day ahead.

ST5 On the concourse opposite the Library, this takeaway is ideal for those on the move! Choose from a wide variety of subs, pastas, curries and meal deals.

Lindsay's (in Lindsay Hall of Residence). This popular bar combines socialising with casual cuisine. You can enjoy daily specials such as chilli or lasagne with a drink. During the year a number of events are organised.

Vite & Eat Situated in the Chancellor's Building. For those with a limited amount of time, this one-stop shop offers a range of tasty sandwiches, confectionery and drinks.

Hawthorns Restaurant Located next to Templar bar at Hawthorns, this restaurant provides traditional Sunday lunches from the traditional Sunday roast to fish and chips. This is an ideal place for those of you who miss a home cooked meal.

In addition, the Keele Meal Plans are designed to offer students a flexible meal package with a weekly allowance to spend in any one of the six campus eateries. You choose how and when you spend this allowance depending on the meal plan chosen. www.keele.ac.uk/studyatkeele/tastekeele/themealplan/

And if that wasn't enough... Why not try the Union restaurant and The Scruffy Squirrel. You'll be spoilt for choice with hot and cold food to tickle your taste buds and a chilled ambiance to enjoy them in.





KeeleCard

Keele has a great system called the KeeleCard, and you will be given one of these when you enrol at Keele. The KeeleCard is your library and ID card and can also be used as a pre-paid debit card. You can load funds onto your KeeleCard at special service points using your credit card, debit card or cash, or transfer money from your bank account by direct debit. The KeeleCard can be used in the Sports Centre, Library, shops, Students' Union and restaurants around campus and you get great discounts on a variety of food and drink in University cafés and restaurants when you pay with it, making eating out affordable.

Shopping

You can buy all life's essentials on campus or nearby. As well as the campus supermarket, Keele has a newsagent, the Students' Union Shop and Post Office, Waterstone's Booksellers and Santander bank. There are also weekly traders in the Union foyer selling a variety of products such as DVDs, CDs, books and make-up. On Tuesdays there are market stalls selling fresh fruit and veg as well as homemade pies and cakes.

Look out for the Union:Update e-zine when you get here, for full and regular listings of what's on every week at the Students' Union and pick up the Entertainment wallplanner.

Telephones

Almost all student rooms are fitted with telephones. There is no connection or rental charge; calls to campus telephone numbers are free while external calls generally cost less than the standard BT payphone charges. There is a taxi freephone in the Students' Union.

HallsNet

Almost all student rooms in Halls of Residence have network sockets that give internet access via the University's wired network from your own PC. For further information see www.keele.ac.uk/hallsnet/

Transport to campus

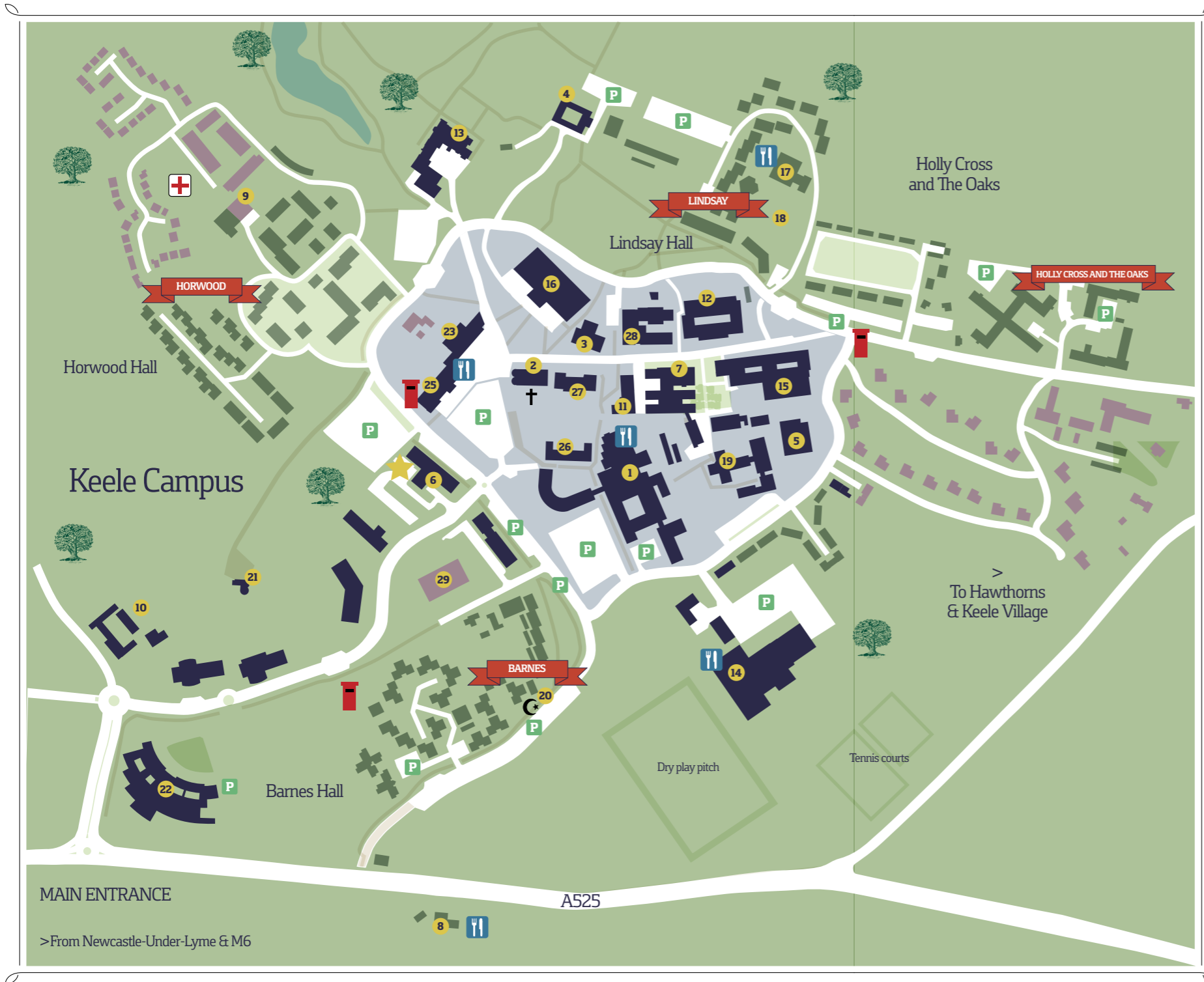
There are regular bus services between campus and Newcastle-under-Lyme and Stoke-on-Trent, including a service to Stoke railway station and to the University Hospital site. Bus passes are available to buy from the Students' Union reception.

Students living off campus who are travelling by car will need to buy a parking permit for campus. There is no parking on campus for resident students. For more details see page 302.

Keele Cyclists

Keele Cyclists is a bicycle users group for the University. They welcome and encourage new and aspiring cyclists as well as offering a support network for existing cyclists. Keele Cyclists also arranges on-campus bike repair and servicing with discounts for students.

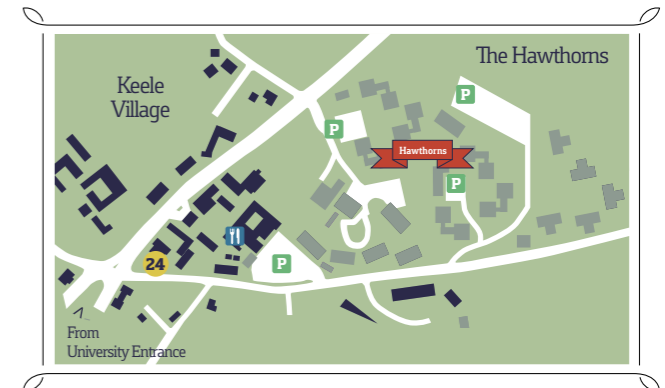
For more information see www.keele.ac.uk/kc



The Keele Campus

- 1 Chancellor's Building
- 2 Chapel
- 3 Claus Moser Building
- 4 Clock House
- 5 Colin Reeve Building
- 6 Darwin Building (with 24hr Reception)
- 7 Dorothy Hodgkin Building
- 8 Golfers' Arms
- 9 Health Centre
- 10 Sustainability Hub
- 11 Hornbeam Building
- 12 Huxley Building
- 13 Keele Hall
- 14 Leisure Centre
- 15 Lennard-Jones Laboratories
- 16 Library and IT Services
- 17 Lindsay Café Bar
- 18 Lindsay Court
- 19 MacKay Building
- 20 Mosque
- 21 Observatory
- 22 School of Medicine
- 23 Shops and Banks
- 24 Sneyd Arms
- 25 Students' Union
- 26 Tawney Building
- 27 Walter Moberly Building
- 28 William Smith Building
- 29 Nursery

- Accommodation
- Teaching/admin
- Other
- ★ 24hr Reception
- 🍴 Restaurant/Eating Places
- + Health Centre
- Post Box
- G † Places of Worship
- Car Park





Chapter 4 - Keele social

Keele University Students' Union (KUSU) is at the heart of campus life. Whatever time of day or night you go in, you'll always meet and make friends.

The Students' Union provides regular employment for hundreds of Keele students every year. It represents and supports students and is the focal point for their social lives.

The Students' Union (KUSU) is genuinely run by students for students, and its aim is to provide as many opportunities as possible for students to make the most of their life at Keele University. The nature and location of Keele means that the campus has a real sense of a student community. Consequently, KUSU is able to provide the very best entertainment that our students really want.

As well as providing entertainment, KUSU's key function is to represent students, to help students get the most from their time at Keele, and to provide a collective political voice nationally, locally and within the University management system. The five sabbatical officers in the Students' Union, who are voted in each March, provide a student voice on all University committees. This ensures that the student voice is heard by all those within, and outside, the University. It is easy to get involved in the running of KUSU, through the Union Committee, Student Councils and Union General Meetings.

KUSU runs a range of societies, around 80 different ones, which vary from year to year depending

on the interests of each intake of students. For instance, the last couple of years have seen unprecedented success by the student radio station KUBE, which is run as a society and boasts a purpose-built studio in the Students' Union. KUBE has won prestigious awards for its online broadcasting and is testament to the importance of student society membership both for social and for invaluable work and life experience. KUSU has a department dedicated to supporting students involved in societies, representation and all sorts of co-curricular activities.

It is extremely easy to start up your own society – all you need to do is write a constitution (which the Vice-President of Finance and Activities can help you with) and find 10 members. Each society is entitled to receive some financial support from the Students' Union.

Some of our current societies are:

Ahlul Bayt, Camera club, Cathsoc, Concert band, Conservative Future, Critical Legal, Dance, Drama, Eco group, Foosball, Geosoc, Greek, Islamic, Jewish, Keele Rock Appreciation Posse (KRAP), KUBE radio, Labour, Law, LGBT, Medical Surgical, Pagan, Philharmonic orchestra and choir, Revelation rock-gospel choir, Role-playing Association, Tae Kwon Do, Unreal paintball.





KUSU also runs regular awareness campaigns on issues such as meningitis, breast cancer and sexual health, and has a well-staffed and highly respected Independent Advice Unit (IAU) (situated on the ground floor of the Students' Union), who can provide help on any problem you may encounter. The IAU also has a Jobshop, which will endeavour to find you a job either within the University, Students' Union or in the local area (see page 41 for more details).

The Students' Union Voluntary Experience Project (VE @ Keele) is an exciting initiative designed to develop and enhance links between Keele and the local community. By working in partnership with a wide variety of national and local organisations, VE @ Keele supports students to volunteer some of their time in the local community and gain valuable work experience, develop skills and have fun, while at the same time helping others. VE @ Keele also offers students the opportunity to volunteer abroad.

Volunteering through VE @ Keele can build up your confidence, open up new opportunities and challenges and is an additional learning experience aside from your degree. In recognition of your volunteering experience, VE @ Keele offers awards at one of four levels: Bronze, Silver, Gold or Platinum; this is evidence of your volunteering, which can be added to your CV. It also offers academic credits for some volunteer modules.

For more information go to www.kusu.net/ve or contact volunteering@keele.ac.uk VE @ Keele is located within the Students' Union building.

All in all, the Students' Union exists to ensure that you benefit from the unique Keele experience and also to make sure you enjoy your time here as much as possible. During your time at Keele, or before you arrive, please do not hesitate to contact the elected sabbatical officers or staff with any questions about the Students' Union. Visit www.kusu.net/contact for details.

Try this for a week at KUSU

Monday: Check out the fantastic drinks promotions at the Union at K2 Lockdown or chill out in The Scruffy Squirrel.

Tuesday: Watch a film, free of charge, courtesy of the Film Society. If you have a passion for sport, catch all of the action from Europe with Champions League and UEFA Cup live on the big screens, or you can take part in the weekly pool competition.

Wednesday: Following an afternoon's sport, settle down to an evening of singing, dancing and socialising in the Union at the Wednesday Rewind. Every month the Union also hosts a 'FLIRT!' fancy dress evening. Alternatively, for a bit of culture, go to one of the excellent Keele Drama Society productions or visit one of the professional theatres in the area.

Thursday: Come and pit your wits against Keele's elite with the Union's very own brain teasing QUIZ in The Scruffy Squirrel.

Friday: Friday night is THE big night out at the Union, with KUSU bursting at the seams for Amnesia offering up the biggest Ibiza anthems, club classics and floor fillers.

Saturday: Saturday is the night for top bands, DJs and one-off events in the Union. And if you want a branded clubbing experience, remember that Manchester, Birmingham, Liverpool and Nottingham are all only about an hour's journey away, by train or by car.

Sunday: Generally a day for R & R. Treat yourself to a meal out at one of Newcastle's numerous quality restaurants, or alternatively, let them bring the food to you! In the evening, impress your friends at the SU karaoke competition, or come along to the Open Mic night. Then it's time to start all over again...

KUSU is one of the country's premier student venues, offering non-stop entertainment throughout the academic year.

There are five bars and two purpose-built venues: K2 and the Ballroom. K2 nightclub hosts regular nights covering a wide range of music genres including R'n'B, Hip Hop, Indie, Rock, House, Drum and Bass, and more, while the Ballroom plays host to a great mix of sell-out live gigs and events, including special fancy dress theme nights, as well as the ever-popular club nights pumping out a soundtrack of chart and party anthems as well as requests.

As well as KUSU's regular events, there are also regular live bands. In previous years the stages have played host to the likes of Ed Sheeran, Gym Class Heroes, Wheatus, Example, Nero, Razorlight, The Music, The Enemy, The Pigeon Detectives, The Twang, We Are Scientists, The Hoosiers, Enter Shikari, Less Than Jake, Young Guns and many others.

Events have included performances from Taio Cruz, Coolio and Sugarbabes and sets from international names such as Trevor Nelson, Steve Sutherland,

Tim Westwood, Zane Lowe and Mr Hudson. Dance nights have featured such renowned heavyweights as Carl Cox, Paul Oakenfold, Sasha and John Digweed, Judge Jules, The Scratch Perverts, Pendulum and Ministry of Sound, to name a few.

In addition to all of the clubbing and live music on offer, there is even more to keep you entertained earlier in the evenings with KUSU's games and pool table area in The Scruffy Squirrel. This is also the place to support your team with all the Big Screen sports action from the Premiership, European Championships and Internationals, to Six Nations rugby and other big sports competitions.

If all of this activity is too much for you, you can relax in the ground floor coffee bar, try out our cocktails in Blueprint or, perhaps, just chill out in KUSU's purpose-built outdoor seating area, The Outback. You can also refuel at all hours of the day and night at KUSU's catering outlets.

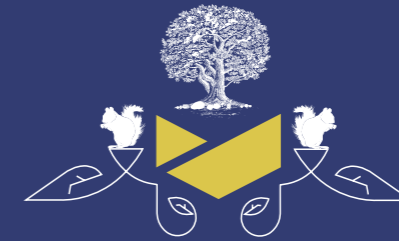
A bit of culture

Keele caters for all styles and tastes of music: there are societies for Active Rock Appreciation, Folk, Jazz, R'n'B, and we have a Philharmonic orchestra, concert and big bands which perform on campus. Budding thespians can tread the boards with Keele's Drama Society. Look out for the summer outdoor performances in the Clockhouse Courtyard. Off campus, the New Vic and Regent Theatres in Newcastle and Hanley offer an annual programme of modern and classical theatre, with discounted tickets for students.

Keele students supported by KUSU, successfully voted us as the UK's favourite university in a competition sponsored by O₂ and run on Facebook.



Exciting new plans and ongoing development of the Union building
www.kusu.net/redevelopment
and surrounding area
www.keele.ac.uk/50-ann-com



Chapter 5 – Keele sports

“There are excellent sporting facilities on offer at Keele. The benefits of studying at Keele are apparent from the beginning of year one.”

Craig Doughty, 3rd year, English and History

The Athletic Union runs over 30 student sports clubs for recreation and competition. The Athletic Union offers a wide range of sports, with the emphasis on having fun as well as competitions, to encourage everyone to try something new. Wednesday afternoons are for sport, with the majority of clubs entering leagues within the British University and College Sports (BUCS).

The Athletic Union also has a traditional Inter-Varsity competition between Keele and Staffordshire University that involves a number of clubs and aims to raise money for a variety of local and national charities.

The University Sports Centre has excellent indoor and outdoor facilities, including a well-equipped Fitness Centre (with specialist staff available to advise on personal fitness programmes), an indoor climbing wall, courts for basketball, five-a-side football, badminton, squash, netball, korfball, karate and aerobics. Classes are available throughout the year in activities such as squash, tennis, trampolining, aerobics, yoga and keep fit.

Outdoors, there is a sand-based astro pitch and 46 acres of playing fields for football and rugby, netball, tennis, cricket and almost anything else. There are two golf courses and a driving range just across the road from the campus.

Our elite athlete programme offers the most talented sported individuals the support they need to excel in their sport. This includes dedicated fitness staff, access to all the facilities, physio support and support from our sport development staff.

After all that exertion, you can collapse into Ritchie's in the Sports Centre to pile the calories back on.

Keele Athletic Union is now working closely with Staffordshire University to share sports facilities and opportunities to join sporting teams such as: American football, boxing, cheerleading, dodgeball, rowing, surfing, snooker and pool.

The Athletic Union hosts two black-tie dinners that reflect on the sporting triumphs and achievements of the year.

Archery, Athletics and cross country, Badminton, Basketball, Cheerleading, Cricket, Fencing, Football, Golf, Hockey, Horse riding, Ju-Jitsu, Karate, Korfball, Lacrosse, Mountain biking, Mountaineering, Netball, Rugby, Sailing, Skiing, Snowboarding, Squash, Sub-aqua, Swimming, Table tennis, Tennis, Trampolining, Ultimate frisbee, Volleyball





 Join our facebook group www.facebook.com/keeleuniversity

 Follow us on twitter [@keeleuniversity](https://twitter.com/keeleuniversity)



See more of Keele and get real student insights into life on campus.

Open Days 2012

Summer & Autumn

Sunday 24 June

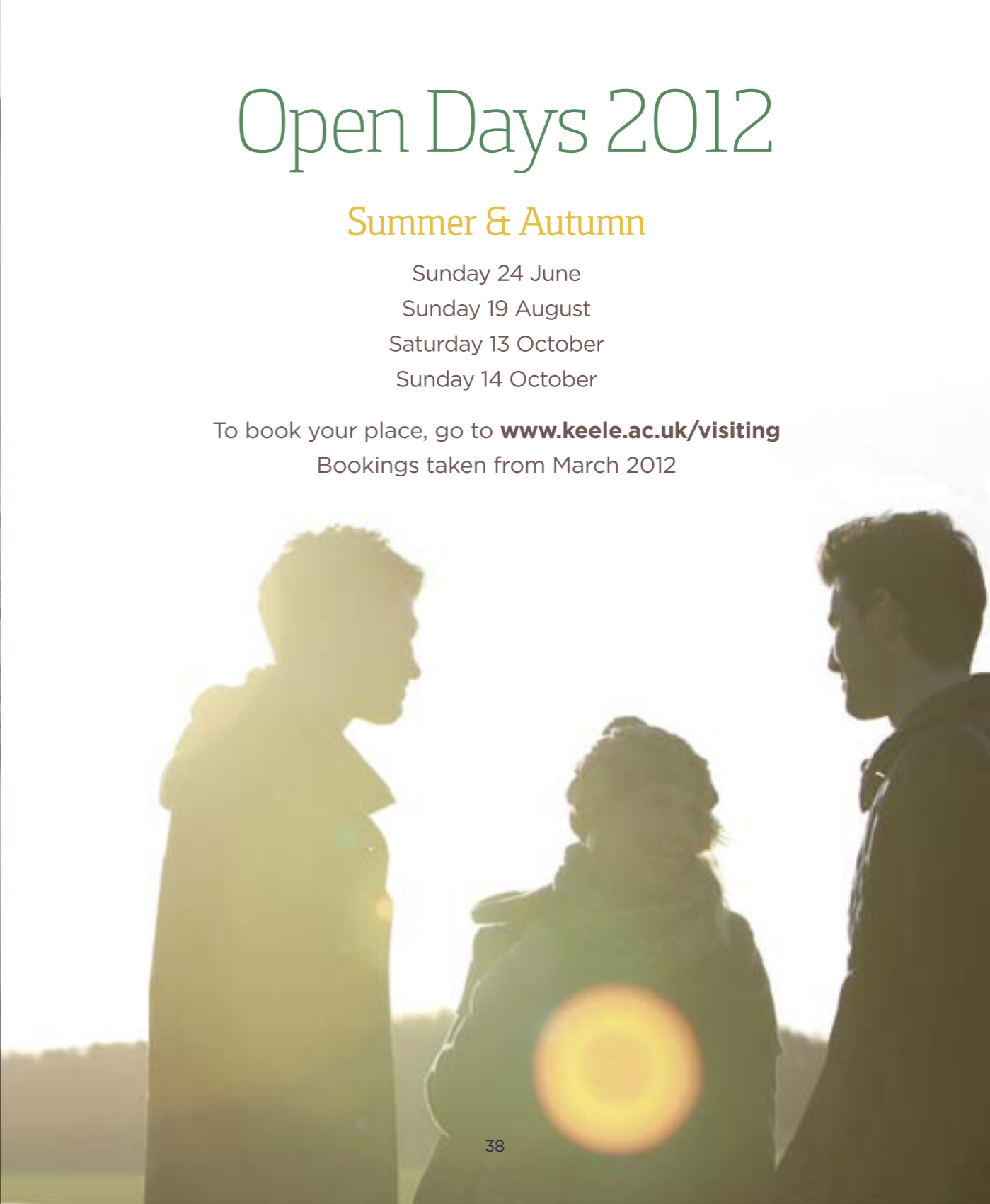
Sunday 19 August

Saturday 13 October

Sunday 14 October

To book your place, go to www.keele.ac.uk/visiting

Bookings taken from March 2012





Chapter 6 – Support

Student Support and Development Services provides high quality advice, guidance, information and support to all Keele students.

The Department is made up of:

- Student Life and Learning
- Careers and Employability
- Disability and Dyslexia Support
- Student Financial Support
- International Student Support
- Counselling and Emotional Wellbeing
- Electives
- Residential Support

www.keele.ac.uk/studentsupport

The Student Life and Learning team provide confidential advice about all aspects of student life. For example, if you are thinking of changing course or if you would like to take some time out from your studies (a leave of absence), the team can help you to arrange this. They also offer practical advice and support on how to improve your study skills and make the most of your Keele student experience.

The Careers and Employability team see students for individual support on many issues including career decision making, work opportunities and postgraduate study. They also run a workshop series on key employability topics and organise sessions for visiting employers and postgraduate providers.

The Disability and Dyslexia Support team provide ongoing support to meet your individual needs. They arrange specialist assessments and special exam arrangements, advise on the Disabled Students' Allowance and liaise with key staff in the University to ensure that we offer a holistic approach to supporting you in your studies. Applications from students with disabilities are welcomed and the Disability Services team is available to discuss personal and academic support needs. For further details, please see page 298.

The Student Financial Support team provide advice and assistance to students on financial matters. The services range from simple budgeting advice and information, to assistance with entitlement to grants, loans, bursaries and scholarships. Information is also available on other funding opportunities and Keele's bursaries. See page 44.

The International Student Support team support students throughout their time at Keele. They are able to help any international student who is experiencing difficulties, has any questions, or who is looking for opportunities to further enhance their Keele student experience (see page 293).



The Counselling and Emotional Wellbeing team is a group of professionally trained and experienced counsellors. They will listen to what you are saying, accept you and respect your feelings, without judging you. They will offer a safe space for you to talk about and express your emotions. You will be supported in working towards an appropriate ending to the counselling relationship and they will refer you on to other help if they feel you need this.

The Electives team support you in your choice of modules at Keele, as part of your degree programme (see page 9). Our website www.keele.ac.uk/electives gives you information on the electives you will be able to choose from each year of study and also shows you how many credits you need in your main subjects to gain a degree.

Other support

English language support in the form of credit-bearing modules and individual guidance is available for international students throughout their time at Keele (see page 295).

There is a Health Centre on campus, with a male and a female doctor, and a dentist's practice.

Independent Advice Unit (IAU)

The Independent Advice Unit (IAU) provides free, confidential, independent, impartial, non-judgemental advice, information and representation to Keele students. IAU staff are able to advise on a wide range of topics, including: academic issues and university regulations, welfare benefits, consumer issues, employment, debt, fees/finance, immigration/visas, local information, grants, housing, loans, personal matters and more. The IAU also works closely with the Vice-President Education and the Vice-President Welfare, two of the student-elected sabbatical officers.

The IAU and its staff are members of: AdviceUK; the UK Council for International Student Affairs (UKCISA) (through which we are authorised to provide immigration advice); and the National Association of Student Money Advisers. The Unit is licensed by the Office of Fair Trading to provide debt counselling and debt adjustment. It works to a Code of Practice; details of all the Unit's policies are available on request.

The IAU has been awarded the Quality Mark by the Community Legal Service (CLS) and is listed in the CLS Directory; the IAU is externally audited every two years.

Jobshop

Jobshop, which is also situated in the Independent Advice Unit (IAU), provides a free service to help Keele students find part-time work during term-time and vacation time both on and off campus, including work within the Students' Union. There are twice-yearly Job Fairs where you can meet local employers looking for staff. The Jobshop is a member of the National Association of Student Employment Services (NASES) and provides advice and guidance on a whole range of employment issues. It also created and maintains links between Keele and the local community.

The IAU, Jobshop and Voluntary Experience Project are open throughout the year and can be contacted:

- **By email:** independent.advice.unit@kusu.keele.ac.uk or jobshop@kusu.keele.ac.uk or volunteering@keele.ac.uk
- **By telephone/fax:** 01782 734800
- **In person:** we are situated on the ground floor of the Students' Union building

Further information can be found at:

www.kusu.net/iau
or www.kusu.net/jobshop
or www.kusu.net/ve

LGBT

The LGBT community at Keele is welcoming and friendly. If you are a new student then you can come along to the LGBT society socials that take place every week. If that's not your cup of tea you could pop into Hanley and grab a coffee at the Polari Lounge which is a great place for members of the LGBT community to meet. For more information on this please go to: www.keelelgbt.co.uk

Alternatively, if you are looking for an outside perspective on what Keele has to offer LGBT students, you can take a look at Stonewalls Gay By Degree website at: www.gaybydegree.org.uk/

You can also contact the Students' Union LGBT officer at: officer.lgbt@kusu.keele.ac.uk

Other facilities

The University has a new well-equipped, purpose-built nursery, registered by Staffordshire Social Services and by Ofsted, for the children of students and staff. Further information can be found at www.keele.ac.uk/livingoffcampus/childcare/

The interdenominational University Chapel provides a focus for Christian worship in a variety of styles and traditions. Other religions are also catered for; in particular there is an Islamic Centre with facilities for Muslim worship. The chaplains will be happy to give information about provision in the local area for other faiths.

Financial support

Keele offers a number of different funds each year to support students financially and these are managed through the Student Financial Support Office. The staff in this office can also give practical advice and guidance on managing your finances and finding other sources of funding. www.keele.ac.uk/studentfunding

Tuition fees

Tuition fees for Home and EU students (2012 figures, these could change for 2013):

All undergraduate, full-time degree courses	£9,000 a year
The Foundation Year	£9,000 a year
The General Foundation Year *	£5,500 a year

*At the time of printing we are not aware of any government financial support for the General Foundation Year.

Please note that the information in this prospectus refers to the 2012 Student Financial Support arrangements and tuition fees; at the time of printing, 2013 arrangements had not been finalised or published.

Under the current system, if you are a UK student you do not have to pay tuition fees yourself whilst you are studying. Provided you meet certain eligibility criteria, you can take out a tuition fee loan from Student Finance England/Student Finance Wales/SAAS (Scotland) or Student Finance Northern Ireland and they will then pay the fees to us on your behalf. You only start paying your loan back when you have completed your course at Keele and are earning above £21,000 a year. If you choose to pay your fees during your studies, you can make payments in up to two instalments each year. UK students can also take out an additional student loan to help with living costs.

For further information, go to www.direct.gov.uk/studentfinance

Tuition fees for international students are on page 296.



Grants

Currently, students can apply for a maintenance grant of up to £3,250 each year (in 2012 – this may change in 2013): unlike the loans, you do not have to repay this grant. The value of the grant you are entitled to will depend on your income and that of your household.

Grants are normally paid in three instalments, directly into your bank or building society account.

Funding for certain courses

From 2012, the NHS is paying the tuition fees for eligible students on certain health courses, including Medicine, Nursing and Midwifery, Operating Department Practice and Physiotherapy. Details can be found at www.nhsbsa.nhs.uk/students

Bursaries

The Keele University Bursary of £1,000 a year is awarded automatically to all students who enrolled at Keele after September 2012 and who also receive the maximum available maintenance grant. (Please note: this is the 2012 scheme and it may be amended in 2013 – please check our webpages for up-to-date information). Full criteria and further details are on the webpages.

Some students who receive the £1,000 bursary may qualify for a larger National Scholarship Programme Award of £3,000 a year. If you receive this award, you will not receive the Keele University Bursary. We will contact all students who are made an offer of a place at Keele with further details about how to apply for a National Scholarship Programme Award. (Note: these are available in 2012 but this may not be the case in 2013 – please check our webpages for details).

International students should turn to page 296-297 for details of fees and scholarships available to them.

Please note that students receiving NHS or other government bursary support (e.g. for Nursing, Midwifery or Physiotherapy) are not eligible for university bursaries.

Study Abroad Bursaries - £500 for study overseas in the second year

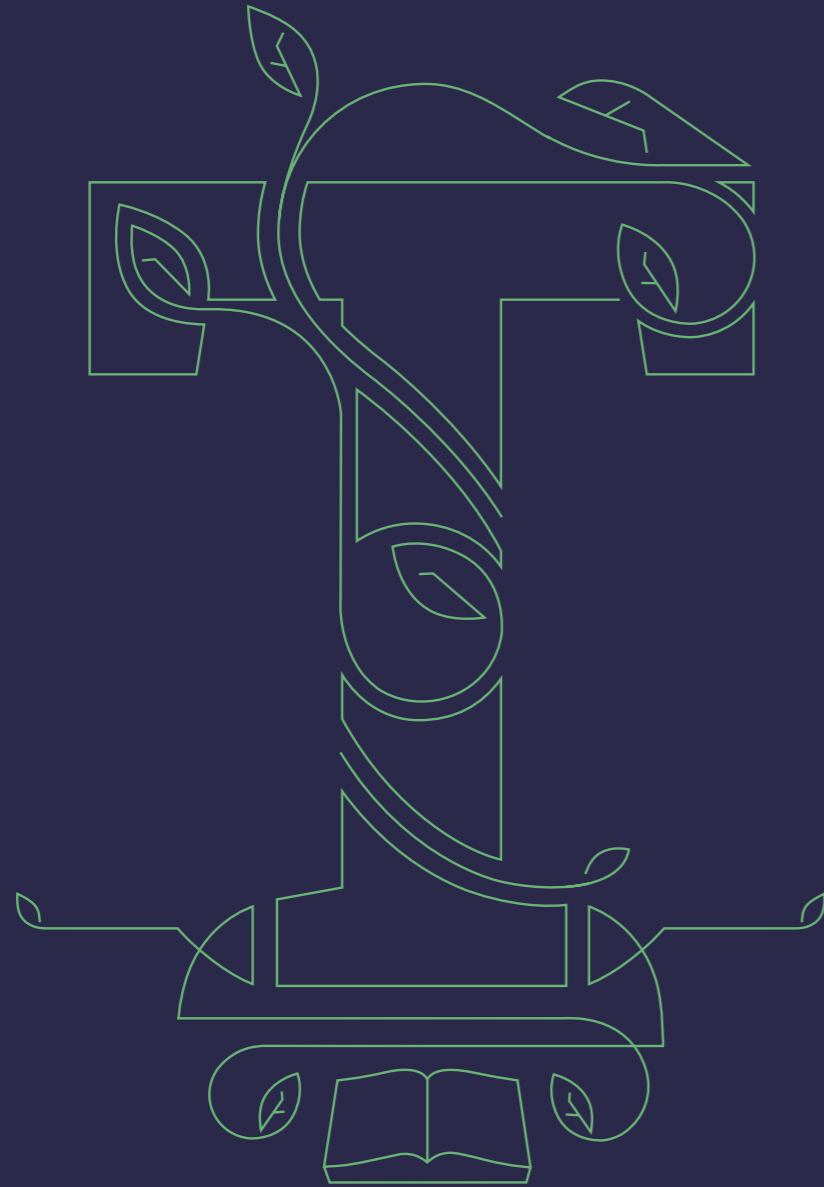
The Study Abroad Bursary is advertised to enrolled students.

Access to Learning Fund

The Access to Learning Fund is non-repayable government funding which is allocated to universities specifically to alleviate hardship among enrolled students. If, once you are at Keele, you find that you are experiencing severe financial hardship, you should contact staff in the Student Financial Support Office who will advise and assist you regarding an application to the Fund. Please note there may be changes to this Fund for 2013.

Emergency loans

Emergency loans are available from the Student Financial Support Office for students with an immediate short-term financial need.



Keele Truths

1. Keele is located in the heart of England, under two hours from London and Leeds and one hour from Manchester and Birmingham.
2. Our teaching and research are rated very highly. More importantly, our students have a say on the quality of lectures and teaching (see page 305).
3. To make sure that everyone who wants to can afford to come to Keele, we offer a large number of bursaries (see page 44).
4. It's not all work and no play! The Students' Union (KUSU) offers entertainment on campus every night of the week, with live bands, club nights and much more (see page 32).
5. Nearly all students at Keele are able to study abroad as part of their degree, in places such as the USA and Canada, Europe, Australia, Southern Africa and Korea or Hong Kong (see page 12).
6. There are 3,200 bedrooms on campus and we have one of, if not, the highest, proportion of student rooms owned and managed by a university (see pages 20, 300).
7. Although Keele has one of the largest and most attractive campuses in the UK, it is one of the smallest universities in terms of student numbers, with a genuine, friendly student and staff community.
8. In the campus study bedrooms you can have broadband internet access: you just need your own computer. Alternatively, you can use the PC labs on campus and there are wireless sites in many campus buildings (see page 10).
9. Keele graduates have some of the highest employment rates in the UK – we have been rated 5th in the country for graduate prospects (see page 15).
10. The campus is like a small town, with restaurants and cafes, a sports centre, supermarket, bookshop, newsagent, post office and bank, plus there is a Health Centre with GPs and an NHS dentist.



Keele Legends

1. The Free Republic of Keele declared its independence in 1981 and the campus existed as an independent state for one week, with its own passports, border guards and government – it was a protest against cuts in education funding.
2. A network of tunnels once existed under Keele campus, some connecting with Keele Hall or the Students' Union and various residences – but none are now accessible.
3. Keele University won University Challenge in 1968 – one of our players put off the opposition at a vital moment by lighting a cigarette live on air.
4. British and American troops were based at Keele in the Second World War – their barracks provided cosy student accommodation until the 1960s.
5. There are many myths about the ghost of Lady Sneyd of Keele and her severed hands – but there never was a Lady Sneyd and nobody at Keele has had their hands chopped off!
6. Two swans were given to the University by the Students' Union in 1955; they lived on the lake by Keele Hall but flew away in the 1980s, never to return – but the Union still awards the honorary title of Swanmaster or Swanmistress to one student each year.
7. All Keele students have a photograph taken at Fresher's Gate by Keele Hall – but in the early days no student ever walked through it – they didn't want to be known as freshers (First Year Students).
8. One of the first ever outdoor rock concerts in the UK was held near Keele – the Hollywood Music Festival took place at Madeley in the summer of 1970 and was staffed by Keele students.
9. Keele appeared in the "News of the World" in 1970 when about thirty students decided to sunbathe naked on the lawns by Keele Hall.
10. Keele was at the centre of a security panic in 1963 when a copy of a secret document listing all the secret nuclear bunkers in Britain was found beside each place at the Sunday Lunch table.



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Accounting

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 40

Study abroad: Yes

UCAS Dual Honours combinations

NC48	Applied Psychology
NF45	Astrophysics
NC47	Biochemistry
NC41	Biology
NN42	Business Management
NM49	Criminology
NQ43	English
NP43	Film Studies
NF44	Forensic Science
NL47	Geography
NF46	Geology
NV41	History
NC1C	Human Biology
NL4R	Human Geography
NN46	Human Resource Management
NN41	International Business
NL42	International Relations
NM41	Law
NN45	Marketing
NG41	Mathematics
NW43	Music
NJ49	Music Technology
NB41	Neuroscience
NV45	Philosophy
NF48	Physical Geography
NF43	Physics
NL4F	Politics
NC4V	Psychology
NL4H	Sociology
NL43	Accounting and Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Accounting but lack the necessary background qualifications. See page 275.



The course

The Dual Honours Accounting course is provided for those students who want to combine the study of accounting with a range of other disciplines across the humanities, sciences and social sciences within Keele's well-known Dual Honours framework. While Accounting is a strongly vocational subject, it draws on principles from a range of the social sciences, including Finance, Economics, Law and Management, as well as subjects such as Mathematics and Computing. The programme will enable students to develop their knowledge and understanding across some of these discipline areas. Accounting provides essential knowledge for the understanding of business behaviour, strategy and corporate performance and this makes it essential for the study of business, management and related areas.

The strength of the Accounting course at Keele University is that it offers the opportunity to gain a firm grounding in accountancy while allowing students to tailor their studies to their individual requirements through a series of options in the three years of study.

It provides students with a contemporary, internationally oriented and globally informed syllabus. Some modules on the course are accredited by the Association of Chartered Certified Accountants (ACCA) and the Chartered Institute of Management Accountants (CIMA) who are global professional accountancy bodies offering internationally recognised professional qualifications in financial and management accounting.

For more information on the course go to:
www.keele.ac.uk/kms/ug/baaccountingdualhons/

Course content

Students will take two core modules and a further two electives in each year of the course. These build sequentially so as to enable students to develop understanding of the subject progressively over the three years of the degree.

In addition to the elective modules listed below, students may choose to study modules that are offered as part of other programmes in the Management School, the Faculty of Humanities and Social Sciences and across the University.

Year 1

The following modules are offered:

Accounting Principles introduces the main mechanisms of accounting, including the analysis of financial statements and the assessment of the users and uses of financial information.

Financial and Management Accounting extends the basic principles of accounting and explains the role of costs for pricing and other business decisions. It also familiarises students with the preparation of the main financial statements and with the financial analysis.

You can also take modules from a range of electives, including:

- Business Law
- Management in Context
- Quantitative Methods
- Introduction to Information Systems

Year 2

You build on basic knowledge gained in the first year, taking the following core modules:

Cost and Management Accounting provides an introduction to the core principles and techniques of recording, defining and reporting costs associated with the operations of organisations.

Intermediate Financial Accounting builds on the first year by looking at the ways that enterprises, and other organisations, account for complex financial transactions and the ways in which they interact with financial markets. All the issues are considered in the international regulatory framework.

You can also take Accounting modules from a range of electives, including:

- Taxation
- Corporate Social Responsibility
- Green Accounting

Year 3

Your knowledge of accounting will be deepened to an advanced level with two core modules in accounting and up to two further modules from a selection of accounting electives. The core modules are:

Management Accounting explores the use of management accounting information for planning, control and decision making in enterprises and organisations.

The Audit Framework develops knowledge and understanding of the roles of the external and internal auditor, the regulatory framework and the theory and techniques of external and internal audit.

You can then choose the following Accounting modules from a range of electives, including:

- Advanced Financial Reporting
- Advanced Management Accounting
- Corporate Governance
- Independent Study Project I & II (for which dedicated supervision is provided)

Teaching and assessment

Teaching and learning will be through a combination of lectures, tutorials, problem-solving workshops, directed reading, discussion group seminars and independent study.

Assessment of students' knowledge and understanding will be achieved by examinations, coursework assessments, in-class exercises and individual or group presentations.

Skills and careers

Accountancy has been cited in previous years as having one of the highest rates of employment for graduates. It has also come in the top 10 subjects for the lowest rate of general unemployment.

This degree will provide a stepping-stone for those wishing to pursue a career in accountancy. It will also provide a solid grounding for those wishing to follow many careers open to them in the wider business context including the corporate sector, the public sector, charities, industry and commerce.

The course is suitable for anybody seeking a rewarding career in accountancy or management. With increasing internationalisation of business activities and globalisation of capital markets, the employment opportunities within these fields are endless.

As well as developing subject-specific skills, this course will equip students with a wide range of transferable skills enabling them to undertake research, work independently or in a group, manage their time efficiently, interpret and evaluate information and perfect their communication and writing skills. All these skills are highly valued by prospective employers.

Point of pride

The Chartered Institute of Management Accountants (CIMA) have recently awarded exemptions at Certificate and Operational level for students following this programme.

Accounting and Finance

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 60

Study abroad: Yes

UCAS Single Honours programmes

NN34 Accounting and Finance

N4LO Accounting and Finance with Social Sciences Foundation Year.

This four-year degree course is designed for students who wish to study Accounting and Finance but lack the necessary background qualifications. See page 275.



The course offers

- A Single Honours course that draws together modules in Accounting, Finance, Mathematics and Law
- An interdisciplinary degree giving students a breadth of study and options
- A vocational degree that provides students with a wide range of career opportunities (the programme offers extensive exemptions from the Association of Chartered Certified Accountants [ACCA] and Chartered Institute of Management Accountants [CIMA] professional examinations)

This is a Single Honours degree that enables students to specialise in Accountancy within the broader context of studying Finance.

While it is a strongly vocational subject, Accounting and Finance draws on principles from a wide range of the social sciences, including Management, Economics and Law. The degree will enable students to develop their knowledge and understanding across these discipline areas.

The strength of the Accounting and Finance course at Keele University is that it offers the opportunity to gain a firm grounding in accountancy and finance while allowing students to tailor their studies to their individual requirements through a series of electives in the three years of study.

The degree provides students with the opportunities to study abroad at partner universities in Europe, the USA and Canada, Asia, Australia and South Africa, which is a priceless experience for those wishing to pursue an international career or looking to broaden their life experience and professional skills.

As well as developing subject-specific skills, this course will equip students with a wide range of transferable skills enabling them to undertake research, work independently or in a group, manage their time efficiently, interpret and evaluate information and develop their communication and writing skills. All these skills are highly valued by prospective employers. The programme will provide a solid grounding for students wishing to follow many careers open to them in the business sector.

Course content

Year 1

Six core modules are taken:

Management in Context introduces the nature of management, the development of management thought, planning, decision making, organising, staffing, leading and controlling.

Accounting Principles introduces the basic ideas of financial accounting, for example, how to read financial accounts, and some basic concepts of accounting in organisations.

Financial and Management Accounting extends the basic principles of accounting and explains the role of costs for pricing and other business decisions.

Economics of Financial Markets studies the connections between the financial system and the wider economy, financial institutions and financial products and the markets in which they operate, tools for the basic analysis of behaviour and decision making within financial markets.

Quantitative Methods introduces some basic statistical methods such as probability, hypothesis testing and univariate regression, using Excel.

Business Law examines the legal framework that informs contemporary business practice, focusing on contract law and corporate governance.

Two modules are also taken from a range of electives, including:

- *Introduction to Information Systems*
- *Globalisation*
- *Marketing Principles*
- *Foundations of Human Resource Management*

Year 2

You build on the basic knowledge gained in the first year and study seven core modules:

Asset Pricing enables you to discover arbitrage pricing theory and the capital asset pricing model that determines the relationship between the prices of financial assets.

Cost and Management Accounting provides an introduction to the core principles and techniques of recording, defining and reporting costs associated with the operations of organisations.

Taxation introduces the operations of the UK tax system, including the preparation of income tax and corporation tax computations, and tax planning.

Introduction to Econometrics uses statistical methods to investigate selected economic and financial issues such as consumption functions, household labour supply and the capital asset pricing model.

Corporate Social Responsibility provides a broad introduction to the ethical dilemmas which modern business encounters, and to examine the ethical frameworks available in order to resolve or discuss these challenges.

Portfolio Choice enables you to construct optimal asset portfolios for private investors or large financial institutions such as insurance companies.

Intermediate Financial Accounting examines the ways that enterprises and other organisations account for complex financial transactions and the ways in which they interact with financial markets.

All the issues are considered in the international regulatory framework.

You also take an additional module from a range of electives, including:

- *Applied Financial Analysis*
- *Green Accounting*

Year 3

All students take five core modules:

Corporate Finance undertakes analysis of company financing investment projects, corporate tax policy, financial decisions and real activity, and the interaction of shareholders, creditors and managers.

Management Accounting explores the use of management accounting information for planning, control and decision making in enterprises and other organisations.

The Audit Framework develops knowledge and understanding of the roles of the external and internal auditor, the regulatory framework and the theory and techniques of external and internal audit.

Advanced Financial Reporting or Options and Futures

Advanced Management Accounting or International Finance.

You also undertake library or fieldwork research in Business Economics through the **Independent Study Project**, for which dedicated supervision is provided, as well as a range of electives, including:

- *Economic and Business Forecasting*
- *Banking*
- *Corporate Governance*

Teaching and assessment

Teaching and learning will be through a combination of lectures, tutorials, problem-solving workshops, directed reading, discussion group seminars and independent study.

Assessment of students' knowledge and understanding will be achieved by examinations, coursework assessments, in-class exercises and individual or group presentations.

Skills and careers

Accountancy has been cited in previous years as having one of the highest rates of employment for graduates. It has also come in the top 10 subjects for the lowest rate of general unemployment.

This degree will provide a stepping-stone for those wishing to pursue a career in accountancy or finance. The course provides a wide range of exemptions to a number of ACCA and CIMA professional examinations. It will also provide a solid grounding for students wishing to follow many careers open to them in the wider business world including the corporate sector, the public sector, charities, industry and commerce.

The course is suitable for anybody who is interested in following a challenging, exciting and lucrative career in accountancy or the investment management industry. With increasing internationalisation of business activities and globalisation of capital markets, the employment opportunities within these fields are endless.

Point of pride

The programme offers a range of options in Year 3 which provides students with the opportunities to specialise in aspects of Finance and Accounting. In the National Students' Survey, Accounting and Finance at Keele receives a high score from students in terms of preparing them for the world of work.

Actuarial Science

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 20

Study abroad: Yes

UCAS **Single Honours programmes**

N323 Actuarial Science

NL33 **Actuarial Science with Social Science Foundation Year.**

This four-year degree course is designed for students who wish to study Actuarial Science but lack the necessary background qualifications. See page 275.



The course offers

Actuaries are the professionals who evaluate the likelihood of future risky events and determine strategies to manage the associated risk. In general, actuaries provide advice to institutions like insurance companies, pension funds and financial or investment institutions. The skills acquired by actuaries are not confined to the financial sector but are also transferable to any organisation that has to deal with risk and make financial sense of the future.

The programme at Keele is a full-time three-year degree programme.

It is ideal for students with good training in quantitative subjects and in particular with a grade A in A-level Mathematics, or the equivalent in other qualifications. The course provides the academic training in mathematics, statistics, economics and finance that is necessary to understand modern developments in actuarial science. In addition, throughout the three years of the course, students will follow specialist modules which will give them a good understanding of the knowledge required to become an actuary.

Course content

Year 1

The first year equips you with the basic tools of mathematical, financial, accounting and economic analysis that will be required for the modules to follow at Level 2. It comprises eight core modules from the areas of finance, economics and mathematics:

- *Calculus I*
- *Calculus II*
- *Algebra I*
- *Algebra II*
- *Accounting Principles*
- *Household, Firms and Government*
- *Economics of Financial Markets*

Fundamentals of Actuarial Science

introduces the basics of Actuarial Science in the deterministic context. Four of the other modules provide the requisite mathematical methods required for actuarial calculation, while the other three modules give a fundamental knowledge of the accounting, financial and economic techniques that provide a basis for understanding the context in which actuarial calculations are made.

Year 2

The objective of the second year is to develop analytical skills in Actuarial Science, Finance and Mathematics on which you can build at Level 3. You take a further eight modules at Level 2.

Economic Decision Under Risk is a module designed specifically for the Actuarial Science programme in the second year and it provides the theoretical basis to understand the effect of risk on individual behaviour and its consequences on market outcomes.

Increased understanding of the mathematics and statistics underlying actuarial calculations is achieved by taking the following modules:

- *Probability*
- *Differential Equations*
- *Statistical Inference*
- *Stochastic Processes*

On the finance side, you deepen your understanding of the markets price assets, and how investors respond to these market prices and returns. The following two modules deal with these aspects of financial theory:

- *Asset Pricing*
- *Portfolio Choice*

Finally, **Applied Financial Analysis** allows you to test empirically your theoretical knowledge of financial markets on real data.

Year 3

You take four core modules specific to actuarial science:

Insurance Statistics is devoted to the statistical techniques used to model and measure individual risks, while **Insurance Theory** follows on from **Fundamentals of Actuarial Science** and **Economic Decision under Uncertainty** and develops students' understanding and analysis of risk.

Topics in **Theoretical and Empirical Actuarial Science** present recent developments in actuarial research and practice, with external speakers (practitioners and academics) making a contribution to the teaching.

Options and Futures develops understanding of financial markets and focuses on the derivatives of financial assets.

Over the second semester, students will carry out a small-scale supervised research project in **Actuarial Science** as an Independent Study Project.

A wide choice of electives in financial and mathematical topics allows you to specialise in specific subject areas or to achieve breadth in your understanding of the theories and techniques that underpin Actuarial Science.

Over the last few years, third-year electives were taken from the list below:

- *Corporate Finance*
- *Game Theory*
- *Partial Differential Equations*
- *Mathematical Programming*
- *Economic and Business Forecasting*
- *Medical Statistics*
- *Numerical Analysis*

Placements

Students will have the opportunity to gain six weeks work experience during the summer following from the second year of study. The school will selectively match students with firms during the course of the second semester of the second year of study. Furthermore, the school will ensure that students are supervised for the duration of the placement.

The summer placement will only be available to students who have passed all the taught component of the programme by the end of the Spring Semester.

Teaching and assessment

Teaching takes place in lectures, supported by tutorials, study groups and computer laboratory classes. Computer facilities are used extensively in Actuarial Science teaching and expertise is gained with a wide range of relevant statistical, economic and modern business software and databases. A range of assessment methods are utilised across the programme comprising weekly or fortnightly exercises, mid-semester tests, projects, essay assignments, and unseen two-hour examinations. The precise combination in each module will depend on the material covered.

Skills and careers

In order to become an actuary, it is necessary to qualify as a Fellow of the Institute of Actuaries in England and Wales or the Faculty of Actuaries in Scotland; these are the two professional bodies for UK actuaries. To qualify as a Fellow, you must pass professional examinations set by these bodies and be able to demonstrate appropriate experience.

The main objective of the third year of the Keele degree is to complete the training in actuarial, financial and mathematical analysis in order to gain exemption from some of the Core Technical subjects determined by the Faculty and Institute of Actuaries. Graduates can then gain employment and go on to achieve their full professional qualification as an actuary sooner than they would otherwise be able to.

American Studies

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013:

10 Single Honours, 35 Dual Honours

Study abroad: Yes

UCAS Single Honours programmes

T700 American Studies

UCAS Dual Honours combinations

CT8R Applied Psychology

FT57 Astrophysics

CT77 Biochemistry

CT17 Biology

NT97 Business Management

MTX7 Criminology

QT37 English

TP73 Film Studies

NT37 Finance

FT47 Forensic Science

LTT7 Geography

FT67 Geology

TV71 History

TC7C Human Biology

LTRR Human Geography

NT67 Human Resource Management

TN71 International Business

LTF7 International Relations

MT17 Law

NT57 Marketing

GT17 Mathematics

TW73 Music

TWR3 Music Technology

BT17 Neuroscience

TV75 Philosophy

FT87 Physical Geography

FT37 Physics

LT27 Politics

CTW7 Psychology

LT37 Sociology

T70Y **American Studies (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.

TV70 **American Studies with Humanities Foundation Year.** This four-year degree course is designed for students who wish to study American Studies but lack the necessary background qualifications. See page 271.



The course offers

- Flexible study opportunities across history, politics, literature and film
- A wide choice of exchange programmes in the US, Canada or Europe

Love it or loathe it, the United States remains a superpower and its policies and culture affect the daily lives of all of us. The influence of US popular culture can be seen everywhere, from rock and roll and jazz music to Hollywood films, from McDonald's to Coca-Cola. Further, as the largest industrialised nation, the US plays a key role in both international politics and the world economy. No matter what your opinions, if you want to understand current events and culture, you must understand America.

American Studies at Keele explores the nature, development and rich diversity of the US from a variety of perspectives, offering a wide range of teaching in not just one discipline but several: history, literature, politics and film. Tied to this diversity is an emphasis on student choice in selecting modules, so that, after a multidisciplinary grounding in American society and culture during the first year, students can combine different approaches or choose to specialise according to their own interests. Another important element of the Keele programme is the opportunity for students to exchange with a partner university in the US or Canada and actually live in the culture they are studying. Dual Honours students studying abroad spend the first semester of their second year in the US, while Single Honours students can choose to go for the whole second year. The exchange programme provides tremendous personal, academic and career development opportunities.

Keele pioneered the development of American Studies in the UK and, as one of the country's leading programmes, we have earned a reputation for combining world-class research with dedicated teaching to provide a challenging but very supportive environment. In 2011, the National Student Survey reported that 92% of our Students expressed overall satisfaction with the degree programme, and our results in nine areas were significantly up on 2012.

We are committed to our subject and to ensuring that all our students leave with a range of knowledge and skills to take the opportunities of life after university.

Course content

Year 1

Autumn Semester core modules

A Beginner's Guide to Contemporary America is a wide-ranging survey of key topics in modern American society – from immigration to foreign policy – as well as an introduction to key methods for studying the US. It is a core module for Dual Honours and Single Honours students.

Single Honours students take a second core module: **Starting Out: An Introduction to American Literature**. This module looks at key 19th- and 20th-century narratives, and develops skills of literary critical reading.

Spring Semester core modules

New York, New York: An Introduction to American Culture, another multidisciplinary module – ranging from film to literature, painting to music – that also develops key research skills. It is a core module for Dual Honours and Single Honours students.

Single Honours students take a second core module: either

– *The American Past: Explorations in US History*

or

– *Introduction to American Politics*

All these modules are also available as electives, as are:

– *Transatlantic Gothic: Studies in 19th-century English and American Literature*

and

– *The Unreliable Truth: Studies in 20th-century English and American Literature*

Year 2

More specialised study begins in the second year, when, through a choice of modules, students can both consolidate their studies and also spread further into the other subject areas within American Studies.

Dual Honours students take one core module per semester, Single Honours two, while all students can choose more modules as programme electives.

Current modules include:

– *The Romance of Fiction – History and Society in 19th-century American Literature*

– *Hooray for Hollywood? Approaches to American Film*

– *Burning Crosses – Religion and American Culture*

– *History of the US in the 20th Century*

– *Atlantic Frontiers: From Empires to Independence*

– *From Modernity to Counter-culture – American Literature and Social Criticism in the 20th Century*

– *Alfred Hitchcock's America*

– *The History of the American West*

– *The Detective and the American City*

– *The Presidency of the United States*

– *The New World in Chains: Slavery and the Bonds of Race in America, 1619-1877*

Year 3

In the third and final year, students are able to specialise further and explore specific areas of interest to the highest level, through a choice of modules – one for Dual Honours, two for Single Honours students – in each semester, plus a year-long dissertation based on individual research.

Modules currently offered include:

– *Film Noir: The Dark Side of the American Dream*

– *High Culture: Drink, Drugs, and the American Dream*

– *Silence, Strength and Sentiment: Gender and Sexuality in 19th-Century American Literature*

– *Environmental Politics in the US*

– *Contemporary American Fiction*

– *Under God: Religion and Society in the US since World War II*

– *Words and Pictures: the Contemporary American Graphic Novel*

– *Writing Slavery*

– *Electoral Behaviour in the United States*

– *Social Thought and Social Movements in the US*

– *Eyes on the Prize: The Struggle for Civil Rights in America*

These modules reflect the research expertise of staff and so usually allow you to study an area as far as possible using original sources. This work is then developed still further through the dissertation module, through which you have the chance to research and write at length on a topic of your own choice.

Teaching and assessment

American Studies uses lectures, especially in the introductory core modules, to convey significant information and new methods of analysis, but most teaching and learning takes place in seminars. These classes work as small discussion groups of 15 to 20 students, where students will be encouraged to participate in critical debates, while group work is further developed in certain modules through the use of workshops. Higher-level students can also take advantage of special seminars run by the David Bruce Centre for American Studies, where guest speakers from institutions around the world present papers on relevant topics.

Most modules are assessed using a mixture of coursework essays, portfolios, examinations and seminar performance. The range of assessment is designed to provide clear feedback on progress and to help students develop key skills in research, writing and presentation. In the final year dissertation module, students have the opportunity to apply those skills to a subject of their interest at the highest level.

Skills and careers

By the end of the academic programme, students will have acquired a specialised knowledge of US society and a range of specialised skills in research and presentation. Students will also have significantly enhanced their experience of other societies through the curriculum and the exchange programmes, acquiring both subject-specific skills and transferable skills valued in the world of work.

Some more ideas...

See also: [Single Honours English and American Literatures, page 123](#); [International Relations, page 171](#).

Point of pride

American Studies produced the very first undergraduates in this subject – many of whom went on to teach in departments up and down the country.

Applied Environmental Science

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 40

Study abroad: Yes

UCAS Dual Honours combinations

CF87	Applied Psychology
FF95	Astrophysics
FC7R	Biochemistry
FC7C	Biology
FN72	Business Management
FM79	Criminology
FG73	English
FP73	Film Studies
FNX3	Finance
FF84	Forensic Science
FL97	Geography
FFX6	Geology
FV71	History
FC71	Human Biology
FLX7	Human Geography
FN76	Human Resource Management
FLYF	International Relations
FMX1	Law
FN75	Marketing
FG71	Mathematics
FW73	Music
FJ79	Music Technology
FB71	Neuroscience
FV75	Philosophy
FF98	Physical Geography
FFX3	Physics
FL72	Politics
FC98	Psychology
FL73	Sociology
F751	Applied Environmental Science (Major). Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
F913	Applied Environmental Science with Science Foundation Year. This four-year degree course is designed for students who wish to study Applied Environmental Science but lack the necessary background qualifications. See page 273.



The course offers

- An exciting interdisciplinary approach to the study of global environmental problems and environmental management strategies
- A strong fieldwork emphasis, with opportunities to visit a variety of locations in the UK and overseas, allowing students to experience and understand environmental problems through first-hand, real-world experience
- Training and experience in a variety of field, laboratory, analytical, presentational, writing and research skills providing an excellent platform for a broad range of environment and non-environment-related careers
- Unique opportunities to work and engage with environmental professionals, including the option of undertaking a third year project working directly with local and regional environmental organisations
- Excellent, modern and well-equipped analytical laboratories, friendly and approachable staff, with leading reputations in their fields and a strong commitment to dynamic and supportive high-quality teaching

Course content

Environmental issues are increasingly gaining much media, government and industry attention. Issues ranging from water resource depletion and land contamination to atmospheric pollution and global warming are now at the forefront of public and governmental concern. In order to tackle these problems effectively, a sound interdisciplinary scientific understanding of different environmental systems is needed. The Applied Environmental Science course at Keele combines the knowledge of specialists within the disciplines of life sciences, chemical sciences and geosciences to deliver an interdisciplinary course which emphasises the role of basic scientific understanding and provides first-hand experience in a variety of practical, laboratory and fieldwork skills for the analysis and management of environmental problems.

The degree is designed to cater for both those with general interests in the environment and environmental issues, and for those with clear environmental science career aspirations.

Year 1

The first year will give students a sound basis and understanding of the core science underpinning the field of environmental science and of the environmental issues faced by the world today. First year modules include:

Environmental Science Skills introduces the subject of environmental science and illustrates the applications of the 'core' sciences in the study and management of environmental issues, and introduces the field and laboratory skills of environmental science research.

Ecology and Environment provides students with an introduction to the function and interaction of plants and animals in populations and communities, and threats to biodiversity and the role of conservation. Key ecological skills are introduced through field and laboratory-based studies.

Introductory Geology for the Environmental Sciences provides coverage of key geological understanding and skills relevant to environmental science, and highlights the role of geology to a range of environmental issues such as carbon sequestration, the sustainability of water resources and contaminant transport.

Introductory Environmental Chemistry

provides students with an understanding of environmental chemistry using a range of topical environmental case studies.

Year 2

In the second year, students will develop a deeper understanding of environmental issues and will further develop the analytical and investigative skills demanded of today's environmental scientists. There are three compulsory core modules aimed at developing key practical skills and knowledge, one of which includes a residential field trip. In addition, students choose one option module from a broad range of choices to suit their particular areas of environmental interests. As one of these option modules, students have the opportunity to apply their learning to the professional environment and find out first-hand about the type of work they might do after graduation through carrying out an environmentally-focussed work placement as part of a work-based learning module.

Core modules

- *Human Impacts on the Environment: Scientific Perspectives*
- *Integrated Environmental Field Studies*
- *Environmental Analytical Methods*

Examples of option modules include:

- *Symbiotic Interactions between Organisms*
- *Hydrology, Oceanography, Geomorphology, Meteorology*
- *Environmental Politics and Policy*
- *Work-based learning module*
- *Regional Landsystems*
- *Geoscience and Society*

Year 3

The third year provides students with the opportunity of either increased specialism in their particular areas of environmental interest, or the flexibility to retain a broad coverage of environmental skills and issues. In addition, students carry out an independent research project, tailored to their individual research interests. The third year also provides unique opportunities to work and engage with environmental professionals and students have the option of undertaking a third year project working directly with local and regional environmental organisations.

Core module

- *Independent Research Project*

Examples of current option modules include:

- *Applied Methods for the Environmental Sciences*
- *Applied Insect Ecology*
- *Trees in their Environment*
- *Hydrological and Engineering Geology*
- *Applied Fish Biology*
- *Natural Hazards*
- *Water Resources*
- *Coastal Environments*
- *Applied and Environmental Geographic Information Systems (GIS)*
- *Environmental (Clean) Technology*
- *Global Environmental Change*
- *Economic Development and Environmental Transformation*

Fieldwork and opportunities to study abroad

Field courses provide students with 'real world' and 'hands-on' experience of a range of topical environmental problems and issues. The Applied Environmental Science degree at Keele has a strong fieldwork emphasis with a range of day and longer residential excursions to UK-based and overseas destinations, which enable students to develop and practise the core practical and investigative skills necessary for a broad range of environment-related careers. In the first year, students gain experience of a range of ecological techniques, and an opportunity to assess the impacts of the industrial and mining heritage of Anglesey on the local environment, during a residential field course to North Wales. In the second year, a wider range of environmental science issues and their management is studied during an exciting overseas residential field visit. Alternatively, students have the opportunity to explore sustainable land management as a highly interdisciplinary residential field course in the Lake District. There are opportunities for studying abroad, both through exchange programmes with universities in different parts of the world including South Africa and Australia, and through carrying out research abroad as part of the third year independent research project.

Applied Environmental Science



Teaching and assessment

The Applied Environmental Science degree programme is delivered by a team of dedicated environmental specialists with leading reputations in their fields and a strong commitment to dynamic and supportive high-quality teaching.

Teaching throughout the course combines a wide range of approaches including traditional lecture-based teaching, seminars, fieldwork and laboratory classes, small group workshops and problem-solving classes. Assessments are varied and include traditional examinations, essays and technical reports, alongside more innovative types of assessment such as group projects, and oral and poster presentations.

The course is designed to ensure that students experience a wide range of teaching and assessment styles and are able to develop and demonstrate a wide portfolio of transferable skills applicable to a range of possible future careers.

Point of pride

Applied Environmental Science students have lots of opportunity to develop professional experience throughout their degree programme whether undertaking a placement on a work-based learning module, carrying out their independent research project with an environmental professional, or meeting professionals working in the environmental sector as part of their field courses.

Some more ideas...

The breadth of Applied Environmental Science means that it combines naturally with any of the science subjects available and a wide range of social sciences and humanities subjects. Popular subject combinations include:

Applied Environmental Science and Physical Geography

The combination of Applied Environmental Science with Physical Geography provides a deep insight into the formation and nature of the landscape, and its relationship with the living world. Graduates are well placed for a variety of careers in resource management, environmental protection and environmental consultancy as well as in more general environmental careers.

Applied Environmental Science and Geology

Many career paths in the environmental field require knowledge of how the Earth works and the nature of the materials and resources derived from the Earth's crust. Graduates will find many opportunities in the fields of mining and quarrying, contaminated land remediation and the effective control of environmental impacts from human exploitation.

Applied Environmental Science and Biology

The blend of Applied Environmental Science and Biology gives graduates a balanced view of how the physical environment interacts with the living environment and thus provides insights into conservation, resource use and the potential threats of human activities. Graduates will be ideally suited to careers in ecological consultancy, environmental-biological research, environmental education and more general careers.

Astrophysics

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 20

Study abroad: Yes

UCAS	Dual Honours combinations
NF45	Accounting
FF95	Applied Environmental Science
FT57	American Studies
CF75	Biochemistry
CF15	Biology
FN59	Business Management
FF15	Chemistry
FG54	Computer Science
GF45	Creative Computing
FM59	Criminology
FL51	Economics
FX53	Educational Studies
FG53	English
FF56	Geology
FV51	History
CF1M	Human Biology
FN56	Human Resource Management
FG5M	Information Systems
FN51	International Business
FN55	Marketing
FG51	Mathematics
PF35	Media, Communications and Culture
FF51	Medicinal Chemistry
FW53	Music
FWM3	Music Technology
BF15	Neuroscience
FV55	Philosophy
FL52	Politics
GF75	Smart Systems
FL53	Sociology
F510	Astrophysics (Major). Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
F513	Astrophysics with Science Foundation Year. This four-year degree course is designed for students who wish to study Astrophysics but lack the necessary background qualifications. See page 273.



The course offers

- Research-orientated options and group projects
- Strong tutorial support from academic staff

Keele offers excellence in teaching; dual strengths in Astrophysics and in Physics; international collaborative research programmes informing the teaching and course design; and a well-equipped observatory on campus.

Astrophysics develops and applies the laws of physics to problems across the universe, involving phenomena from below the level of an atomic nucleus to astronomical scales. Astrophysical phenomena test physical laws to the limit, and often beyond; the extreme conditions encountered in the first moments of the Big Bang provide the only known laboratory for testing physical theories of the fundamental interactions, and of the ultimate structure of matter. In their work, astrophysicists use astronomical observations, mathematical models and computer simulation to propose, test, evaluate and develop theories that explain these phenomena. More importantly, this depth of understanding allows us to predict behaviour and apply this knowledge to improve the quality of life both for individuals and for society as a whole. There are many spin-offs from Astrophysics research that have impacted on our daily lives, from developments in the detection of radiation as applied to clinical medicine, to computer software and hardware developments generated through the demands of such research.

Students may tailor their Dual Honours degree to their career aspirations, as Astrophysics couples well with a range of subjects both from within the sciences – for example, Mathematics, Computer Science, Geology – and from the humanities and social sciences – for example, Music, Philosophy or Politics.

Degree routes

BSc Dual Honours Astrophysics

Students can combine Astrophysics with a science or non-science subject in equal weight for three years to achieve a BSc Dual Honours degree (see list).

BSc Astrophysics (Major) (F510)

Students will be required to read a second subject for the first two years.

Course content

To achieve a Dual Honours degree, students will study four modules in the first year, followed by four in each of the second and third years. The first year provides an introduction to mechanics and special relativity, to the laws of electricity, to the search for the ultimate structure of matter, to oscillations and waves, and to the internal structure of stars; this is complemented by a range of practical work in Physics and Astrophysics, Mathematics and problem-solving sessions. These themes are developed in the second year, which includes physical and geometrical optics, an introduction to the synthesis of elements in stars and to particle physics, quantum mechanics, thermodynamics and statistical mechanics with an introduction to solid state physics; practical work includes an introduction to the analysis of astronomical data. The third year contains advanced topics, options (including some topics from Physics) and a project. Students majoring in Astrophysics study six core and option modules, complete a dissertation and undertake a group project.

Laboratory and observatory work

There are laboratory sessions each week in all three years, including computational, team activities and group project work. Much of our understanding of Physics and Astrophysics comes from observation and measurement, and laboratory work is therefore an essential experience for all physicists and astrophysicists; the on-campus observatory at Keele also enables Astrophysics students to gain experience of observing. Experiments are designed to investigate unfamiliar phenomena and to acquire specific techniques and skills. Students will learn how to communicate their results and ideas by means of discussions, abstracts and reports or papers. The second and third years provide increasing scope for creative work in the laboratory through more open-ended experiments and, in the third year, group project work.

Year 1

All lecture-based modules are supported by problem-solving classes, mathematical methods and laboratory work. The emphasis is on core physics, mathematics and practical skills.

Core modules

- *Mechanics, Gravity and Relativity*
- *The Nature of Matter*
- *Oscillations and Waves*
- *Electricity and Stellar Structure*

Plus, modules in your other Principal subject and (where appropriate) modules from the University list of electives.

Year 2

All lecture-based modules are supported by problem-solving classes; mathematical methods and laboratory work are included in these modules:

- *Quantum Mechanics*
- *Optics and Thermodynamics*
- *Statistical Mechanics and Solid State Physics*
- *Stellar Astrophysics*

Plus modules in your other Principal subject.

Year 3

You will study advanced astrophysics, undertake a group project and choose one or more options from our broad list of modules (see below, under 'Astrophysics [Major]'):

- *Electromagnetism and Radiation*
- *Astrophysics Project and Science Communication*
- *Two options (see below)*

Plus, modules in your other Principal subject.

Astrophysics (Major)

- *Electromagnetism and Radiation*
- *Astrophysics Project and Science Communication*
- *Dissertation*

Plus, five options which may include:

- *Cosmology*
- *Computational Methods in Physics and Astrophysics*
- *Data Analysis and Model Testing*
- *Life in the Universe*
- *Particles, Accelerators, and Reactor Physics*
- *Physics of Compact Objects*

- *Physics of Continuous Matter*
- *Physics of Galaxies*
- *Physics of the Interstellar Medium*
- *Polymer Physics*
- *Quantum Physics of Atoms and Molecules*

Teaching and assessment

Teaching is by a mixture of lectures and laboratory classes. Problem-solving classes provide an opportunity to practise problem-solving skills in Astrophysics, Physics and Mathematics. In all three years, laboratory time provides an opportunity for informal contact and discussion with members of staff. The necessary mathematical background is provided via lectures and problem-solving classes, and scientific computing is an integral part of the laboratory course.

A series of applied problems aims to stimulate an understanding of the physical and astrophysical concepts arising from the lecture courses and to enhance skills in quantitative reasoning. Assessment is by a mixture of end-of-module examinations and the coursework completed during the semester; this comprises problem sheets, laboratory and project reports and laboratory diaries. The assessment balance over the course as a whole is around 60% examination, 40% coursework.

Skills and careers

A degree in Astrophysics will equip students with the same range of knowledge and skills as a degree in Physics, enabling them to embark on a wide range of careers. Some of our graduates have continued their study of Astrophysics to MSc or PhD level, either at Keele or elsewhere. Many have gone into industry, management, public services including teaching and health, and finance. It is recognised by employers that the versatility and flexibility of Astrophysics graduates, together with their unique combination of skills, makes them much sought-after employees.

Membership of professional institutions

The Dual and Astrophysics (Major) courses are accredited by the Institute of Physics. Graduates in Astrophysics who take either Major or Dual Honours are eligible for membership of the Institute of Physics.

Astrophysics



Some more ideas...

Astrophysics and Computer Science

Perhaps more than any other discipline, Astrophysics has made enormous strides in recent years as a direct consequence of advances in computing hardware and software. For example, the breathtaking images we receive from the Hubble Space Telescope rely on hardware and software at the telescope itself, telemetry down to a ground-station, followed by sophisticated reduction and analysis of the received image.

Furthermore, it is now possible to use large-scale 'number-crunching' to calculate (for example) the complex interactions between millions of stars as two galaxies collide. Using advanced computational techniques, it is now possible to address problems that would have been inconceivable even a decade ago.

Astrophysics and Geology

Both these science subjects are firmly based on experimental fieldwork, except that in the Astrophysics case this is astronomical observation. The geological nature of the planets and other bodies in space are of significant scientific interest and also of commercial interest as future sources of minerals. Astrogeological activity (including, for example, planetary volcanoes) is another area of common interest. From the career perspective, this combination prepares students well for work in exploration and in geophysics, as well as providing rewarding study of a huge range of natural phenomena across the universe.

“Choosing Keele for Astrophysics is one of the best decisions I have ever made. The lecturers are truly dedicated to their students, and the course itself is outstanding. I cannot think of a more perfect place to study this amazing subject.”

Danielle Berry,
2nd year student in Astrophysics and Creative Computing

Point of pride

Dual Honours and Astrophysics (Major) students have the unique opportunity in their final-year Project to analyse data acquired with a robotic observatory built and operated by Keele as part of the SuperWASP consortium. SuperWASP is the UK's leading programme of extra-solar planet detection. We have discovered scores of planets since 2006 and gathered tens of Terabytes of research-quality data in the process. Some recent projects by our students have exploited these data for novel investigations into stellar rotation, variable stars and comets.

Biochemistry

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 60

Study abroad: Yes

UCAS Dual Honours combinations

- NC47** Accounting
- CT77** American Studies
- FC7R** Applied Environmental Science
- CC8R** Applied Psychology
- CF75** Astrophysics
- CC17** Biology
- CN79** Business Management
- CF71** Chemistry
- CG74** Computer Science
- GC4R** Creative Computing
- CL71** Economics
- CX73** Educational Studies
- CP73** Film Studies
- CN73** Finance
- CF74** Forensic Science
- LCR7** Geography
- CV71** History
- CC7C** Human Biology
- CL77** Human Geography
- CG7M** Information Systems
- CN71** International Business
- CL72** International Relations
- CM71** Law
- CN75** Marketing
- PC37** Media, Communications and Culture
- CFR1** Medicinal Chemistry
- CW73** Music
- BC17** Neuroscience
- CV75** Philosophy
- CF78** Physical Geography
- CF73** Physics
- CC87** Psychology
- GC77** Smart Systems
- CL73** Sociology
- C700** **Biochemistry (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
- C703** **Biochemistry with Science Foundation Year.** This four-year degree course is designed for students who wish to study Biochemistry but lack the necessary background qualifications. See page 273.



The course offers

- **Particular emphasis on mammalian biochemistry and human disease**
- **The flexibility to combine Biochemistry with a very wide range of other subjects (see left)**
- **Integrated coverage of molecular biology**
- **The opportunity to study abroad at a range of partners in the USA, Canada, another part of Europe or Australia or to have a sandwich year. The sandwich year can be spent working in one of 16 laboratories at European Institutions, including the Pasteur Institute. ERASMUS funding is available for these placements**

Biochemistry is the science that studies the activities of living organisms at the cellular and molecular level. It is a key science in medical research and diagnosis, and has led to many important advances in the treatment of human disease. A degree in Biochemistry is the first step towards a wide variety of careers in the pharmaceutical and food industries, in the hospital service, and in many aspects of biological and medical research.

Degree routes

Biochemistry may be studied for the following modular degrees, all involving some interdisciplinary aspects:

- **BSc Dual Honours:** with a second subject studied for three years (see list)
- **BSc Biochemistry (Major):** including study of a second subject for first and second years

The BSc programmes are of three years' duration (four years with an industrial placement). Transfer between these programmes may be possible within the first year.

Three-year courses: BSc Dual Honours and Biochemistry (Major)

The three-year BSc Dual Honours Biochemistry course aims to provide students with a comprehensive knowledge of this rapidly expanding science. It is taught by biochemists who are themselves engaged in projects in several areas of medical research, molecular biology, biochemistry or structural biology. The first two years are common to all Principal Biochemistry courses. In the Dual Honours course students study Biochemistry alongside another subject of their choice for all three years of their course. The Biochemistry (Major) course differs only in the third and final year, where students select all modules from their preferred subject.

Four-year courses: Science Foundation Year and sandwich course

It is possible to add a fourth year to the course in order to tailor it to suit individual needs. There are essentially two ways in which this can be done:

- Add a Science Foundation Year prior to the start of the three-year course
- Take a sandwich course, by including an industrial placement after two years of the three-year course

Only one of these options can be selected.

Course content

Year 1

The first year provides an introduction to protein structure and function, molecular biology and protein synthesis, metabolism and energy transduction, and the function of membranes and organelles in the cell. Although these modules are primarily concerned with higher organisms, students will also study structure and function in microbial cells.

Summary of Biochemistry degree courses

	BSc Dual Honours	BSc Biochemistry (Major)
First year	<ul style="list-style-type: none"> – Four modules in Biochemistry – Four or five modules in a science or non-science subject 	<ul style="list-style-type: none"> – Four modules in Biochemistry – Four or five modules in a science or non-science subject
Second year	<ul style="list-style-type: none"> – Four modules in Biochemistry (see text) – Four modules in a science or non-science subject 	<ul style="list-style-type: none"> – Four modules in Biochemistry (see text) – Four modules in a science or non-science subject
Third year	<ul style="list-style-type: none"> – Four modules in Biochemistry (includes a research project) – Four modules in a science or non-science subject 	<ul style="list-style-type: none"> – Eight modules in Biochemistry (includes an extended research project)

Year 2

In the second year, students go on to study a number of these systems in greater depth, to illustrate how biochemical activities are adapted to particular circumstances.

The emphasis of this part of the course is on mammalian (and particularly human) biochemistry and cell biology. There is coverage of the immune system and its role in combating disease. This theme is continued in a module that pays special attention to the changes in metabolism associated with disease states such as diabetes. There is particular emphasis on the new and expanding technical developments in DNA and protein molecular biology. There is a full module dealing with recombinant DNA technology and genetic engineering, and another that covers the way in which cells respond to their environment, through signalling pathways.

Year 3

Students taking Dual Honours take four modules in their third year, one of which must be a research project, while students taking Biochemistry (Major) take eight modules, of which the project counts as two. All students take the **Acquisition, Analysis and Communication of Information** module, which develops the skills required for retrieving and interpreting published research, and for analysing and communicating experimental data.

Students choose the remaining modules from the following list, selecting combinations that reflect their interests.

Biochemistry modules currently offered:

First year

- *Nature's Tools: Proteins and Enzymes*
- *Information and Inheritance*
- *Metabolism: Major Metabolic Pathways*
- *Cells and Organelles: Biochemical Aspects of Cell Biology*

Second year

- *Gene and Protein Engineering*
- *Metabolism in Health and Disease*
- *Endocrinology and Signalling*
- *Immunology*

Third and fourth years

- *Experimental Research Project*
- *Non-experimental Research Project*
- *Biochemistry and Therapy of Disease*
- *Macromolecular Structure and Function*
- *Clinical Pathology*
- *The New Agriculture: Plant Molecular Biology*
- *Acquisition, Analysis and Communication of Information*
- *Advances in Medicine*

Biochemistry



Research topics in Biochemistry

- *Diabetes*
- *Cell and Molecular Biology of Cancer*
- *X-ray Crystallography of Proteins*
- *Biochemistry of Tropical Diseases*
- *Programmed Cell Death*
- *Alzheimer's Disease*
- *Glycomics and proteomics*

Sandwich course

We offer BSc students the opportunity to undertake a 48-week placement at the end of their second year, in an approved government or industrial establishment or field centre. This placement year can provide not only practical skills training, but also valuable transferable skills and time for personal development. The experience students will gain may prove particularly beneficial when they return to the University and in the early stages of their career. While we will attempt to find suitable placements, this cannot be guaranteed and students will be encouraged to make

their own contacts, which we will need to check before approving. Students will be required to reach defined standards in their second year assessments to become eligible for the sandwich year. Those not reaching this standard, or not able to find a suitable placement, will be transferred to the three-year course.

Research

Our research is directed towards furthering understanding of biological processes at the molecular level, particularly where these processes are medically and biologically significant. Research techniques range from organ and cell culture to molecular cloning and X-ray crystallography and are directed towards the analysis of programmed cell death (apoptosis), of inflammation and tissue repair and of the serum pentraxins and collectins, which play an important role in control of the immune system. These research areas are of crucial importance in diabetes, in other autoimmune and inflammatory diseases and in cancer.

Teaching and assessment

Biochemistry is a laboratory-based subject, and the Keele course has a strong practical emphasis, with laboratory sessions held throughout the three years. Laboratory classes in the first and second years will be held in state-of-the-art teaching laboratories.

In the final year, practical projects are often linked to one of the research interests in the School of Life Sciences. The laboratory programme also provides time to get to know staff in a relaxed environment, and to develop other important skills such as communication, problem-solving and IT skills.

Lectures are supplemented with tutorial work in small groups, aimed at consolidating and amplifying lecture material and at identifying and overcoming any problems that students may be encountering with their work.

Performance in each module will be assessed using a mixture of examination and in-course assessment. The proportion of each varies somewhat between modules but is typically weighted towards examination (e.g. 67-75%) for taught modules. Some modules with high practical component will have a correspondingly high in-course assessment component. In-course assessment may take several forms including poster presentation, essays, laboratory reports and oral presentations.

Skills and careers

The Biochemistry course aims to produce highly motivated graduates who are suitably prepared for employment, principally in industry and in the health service, and who are well equipped to study for a higher degree. At the same time, students will develop and use a range of key skills that are suitable for employment outside these directly related subjects. A substantial proportion of Biochemistry graduates go into other areas where numeracy and an objective scientific approach to problem solving are valued.

Some more ideas...

Most students at Keele choose a three-year Dual Honours course. It can be a great advantage to study two Principal subjects equally to degree level, particularly if both are science subjects. In Biochemistry, students will learn the techniques of modern molecular biology that underpin much of the current research across a range of life sciences. This makes Biochemistry a good choice to combine with many science subjects.

Biochemistry and Biology

Many of our students choose to combine Biochemistry with Biology in order to cover the entire range of the life sciences discipline, from molecules and cells to whole organisms. Biochemistry will show how cells work at a molecular level, whereas in Biology, students will look at the whole organism, from its physiology to the way it is adapted to its environment.

Biochemistry and Neuroscience

Those who are fascinated by the mind and how it works can combine Biochemistry with Neuroscience. The functioning of nerve cells at a molecular level will be dealt with in the Biochemistry course. In Neuroscience, students will learn how this must be integrated with key concepts from neurobiology, psychology and computer science in order to begin to understand how our brain works, and what determines our behaviour patterns. Students will also discover how molecular malfunctions can cause diseases, from depression and schizophrenia to Alzheimer's disease and Creutzfeldt-Jakob disease (CJD).

Biochemistry and Forensic Science

This is a popular combination bringing together two of the fastest moving areas of 21st-century science. The strong chemical foundation of many of the techniques of modern forensics is complementary to the analysis of life at the molecular level in the Biochemistry course. The exploitation of biochemical techniques in forensic science, particularly the use of DNA fingerprinting, provides one of the most interesting examples of this complementarity.

Biochemistry and Computer Science

Modern Biochemistry, both in research and in industry, makes good use of powerful computing technology to analyse very large sets of data - from the study of the three billion bases of the human genome and the quantitation of gene expression using microarrays, to the analysis of 3-D protein structures using X-ray crystallography. Combining Biochemistry and Computer Science provides a powerful and distinctive advantage for careers in these crucial and rapidly growing areas.

Whatever your choice of second Principal subject, the Dual Honours system keeps open a wider range of possibilities for future careers. It allows students to market themselves as biochemists, biologists or neuroscientists, or to promote their multidisciplinary skills according to circumstances. As a springboard for a higher degree or a career in research, a Dual Honours degree is just as acceptable as Biochemistry (Major) and many of our graduates go on to study for a higher degree in either subject area.

See also: Biochemistry and Human Biology, page 75.

“Degree-level training at Keele is a great preparation for commerce and life.”

Brian Swain,
Business Manager, Zeneca-Innovex.

Brian Swain entered Keele as a mature student, after working as a retail representative for Marion Merrell Dow. He studied Biochemistry and Chemistry Dual Honours for two years and transferred to Major route Biochemistry for his final year. Brian graduated with a 2ii Honours degree in Biochemistry and is now a business manager with Zeneca-Innovex.

Point of pride

According to a Quality Assurance Agency report, Keele offers 'enthusiastic, committed and caring staff', and 'all subgroups of students achieve their potential'. The Biochemistry course has scored consistently well in recent National Student Surveys e.g 98% overall satisfaction in the 2012 NSS.

Biology

Course: Dual Honours, Major

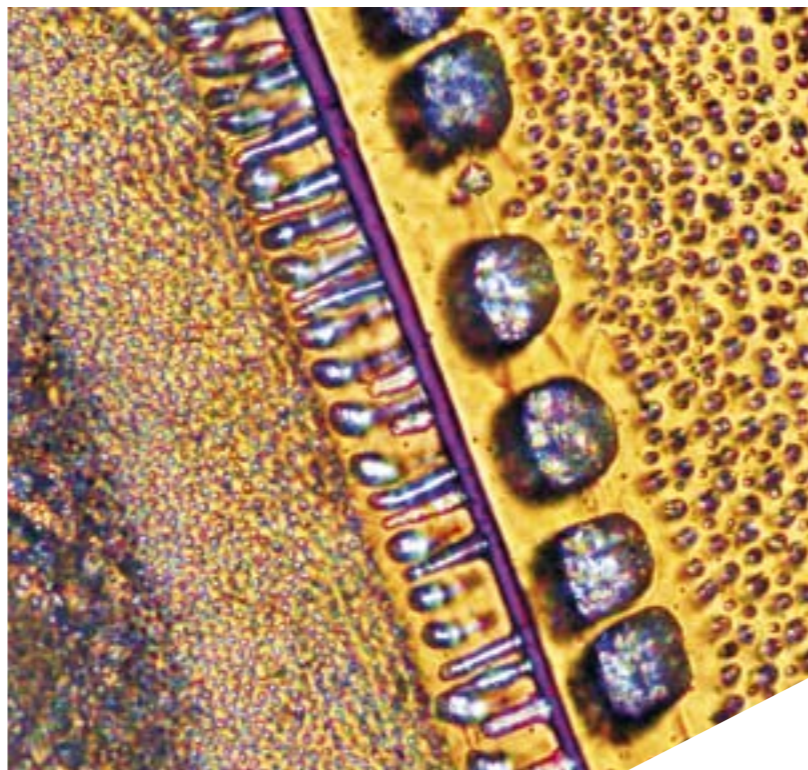
Entry requirements: See page 283–292

Approximate intake in 2013: 70

Study abroad: Yes

UCAS Dual Honours combinations

- NC41** Accounting
- CT17** American Studies
- FC7C** Applied Environmental Science
- CC8C** Applied Psychology
- CF15** Astrophysics
- CC17** Biochemistry
- CF11** Chemistry
- CG14** Computer Science
- GC4D** Creative Computing
- CM19** Criminology
- CL11** Economics
- CX13** Educational Studies
- CQ13** English
- CP13** Film Studies
- CN13** Finance
- FC41** Forensic Science
- LCR1** Geography
- CF16** Geology
- CL17** Human Geography
- CN16** Human Resource Management
- CG1M** Information Systems
- CLC2** International Relations
- CM11** Law
- CG11** Mathematics
- PC31** Media, Communications and Culture
- FCC1** Medicinal Chemistry
- CW13** Music Technology
- CF18** Physical Geography
- CF13** Physics
- CL12** Politics
- CC81** Psychology
- GC71** Smart Systems
- C100** **Biology (Major).** Please indicate your choice of second science subject (chosen from those listed above) in the 'further information' section of your UCAS form.
- C103** **Biology with Science Foundation Year.** This four-year degree course is designed for students who wish to study Biology but lack the necessary background qualifications. See page 273.



The course offers

- **An emphasis on whole organisms**
- **A broad science degree in an established subject**
- **Flexibility and choice**
- **A good range of subject-specific and employability skills**
- **One-to-one supervision of projects and dissertations**
- **The opportunity to study abroad at a range of partners in the USA, Canada, another part of Europe or Australia**
- **The opportunity to have an industrial placement as a sandwich year. This can be spent working in one of 16 laboratories at European institutions, including the Pasteur Institute. ERASMUS funding is available for the placements**
- **No requirement for A- or AS-Level Chemistry**

Degree routes

Biology may be studied for the following modular degrees, all involving some interdisciplinary aspects:

- **BSc Dual Honours:** with a second subject studied for three years
- **BSc Biology (Major):** students will be required to read a second subject (chosen from the list) for the first two years

The BSc programmes are of three years' duration (or four years with an industrial placement).

Three-year courses: BSc Dual Honours and Biology (Major)

The first two years of Biology are common to all Biology degree routes. In the Dual Honours course, Biology is studied alongside another subject of the student's choice for all three years of the course. The Biology (Major) course differs only in the final third year, where students select all or nearly all their modules from Biology.

Four-year courses: BSc sandwich course

We also offer BSc students the opportunity to undertake an industrial placement (six months minimum) between their second and third years at Keele, in an approved government or industrial establishment or field centre. This year can provide not only practical skills training, but also valuable employability skills and time for personal development. The experience students will gain may prove particularly beneficial when they return to the University and in the early stages of their career. While we will attempt to find suitable placements, these cannot be guaranteed and students will be encouraged to make their own contacts, which we will need to check prior to approval. If students cannot find a suitable placement they will be transferred to the three-year BSc course.

Course content

The Biology course concentrates on whole organisms, their relationships with the environment and one another, and the way in which they have evolved. The course starts with modules that include key aspects of the subject and impart some of the excitement of a science that is of such importance for human life on our planet. Students will also be able to choose modules and so have the opportunity to specialise in areas of the subject that reflect their interests and ambitions, such as animal biology or human biology. The emphasis throughout is on the

Summary of Biology degree courses

	BSc Dual Honours combined with any of the Dual Honours subjects listed (with option of industrial placement)	BSc Biology (Major) combined with any of the subjects listed (with option of industrial placement)
First year	<ul style="list-style-type: none"> - Four modules in Biology - Modules in the other subject - Choice of options from other subjects 	<ul style="list-style-type: none"> - Four modules in Biology - Modules in the other subject - Choice of options from other subjects
Second year	<ul style="list-style-type: none"> - Four modules in Biology - Modules in the other subject 	<ul style="list-style-type: none"> - Four modules in Biology - Modules in the other subject
Third year	<ul style="list-style-type: none"> - Four modules in Biology (includes a research project or dissertation) - Modules in the other subject 	<ul style="list-style-type: none"> - Eight modules in Biology or seven modules in Biology and one from the other subject (includes either a research project and dissertation or a double research project)

whole organism. Cell and molecular biology (which can be studied extensively in the Biochemistry programme) receive sufficient attention to provide a good understanding for non-biochemists.

Students take four modules in Biology in each of the first and second years. There is a summer vacation field course between the first and second years. Choice of modules is available in these two years, allowing students to adjust the emphasis of their studies if they wish. For example, this could lead to more of an emphasis on human biology. A wider range of options is available in the third year, including an individually supervised project or dissertation. By choosing a suitable set of modules, students will be able to tailor the content of their final year to their special interests or career aspirations. Some possible specialisations are in human biology, animals, disease, applied biology, ecology or brain science. However, the qualification will still be in Biology rather than a narrow specialisation.

Field course

The field course is held at a coastal location in North Wales at the start of the summer vacation between the first and second years, and includes work on terrestrial and seashore biology. A wide range of habitats, such as cliff-top heathland, salt marsh and rock pools, are visited and studied. At the end of the course, one topic is studied in more detail in a small research project.

The following Biology modules are currently offered:

First year

- *Diversity of Life*
- *Cell and Molecular Biology*
- *Genetics and Evolution*
- *Ecology and Environment*
- *Human Physiology and Pathology*

Second year

- *Life at the Extremes*
- *Animal Physiology*
- *Human Genetics*
- *Development and Evolution of Nervous Systems*
- *Nutrition and Energy Balance*
- *Symbiotic Interactions between Organisms*
- *Human and Animal Cognition*
- *Research and Analytical Skills*

Third year

- *Human Parasitology*
- *Applied Insect Ecology*
- *Behavioural Neurobiology*
- *Clinical Pathology*
- *Applied Fish Biology*
- *Human Evolution*
- *Trees in their Environment*
- *Plant Molecular Biology*

Biology

- *Neurobiology of Vision and Hearing*
- *Neurobiological Basis of Brain Disease*
- *Dissertation*
- *Research Project*

Research topics

A wide range, including topics as diverse as:

- *Human neonatal immunity*
- *Conservation of elephants*
- *Sea cucumbers in Sulawesi*
- *Mosquito mating behaviour*

Teaching and assessment

Most teaching in the first two years is through lectures and practical classes, with occasional tutorials and student-led seminars. In the final year, laboratory work is normally confined to projects, and more use is made of seminars and tutorials. Most modules have both examination and in-course assessment components in the ratio of 3:1, but project and dissertation work and one second year module have no examinations.

Skills and careers

As well as training students as professional biologists and potential research scientists, the Keele Biology programme is designed to provide employability skills that will equip graduates for a career not only as biologists, but also in industry or commerce not necessarily connected with the subject. Biology has an excellent record of graduate progression to employment and further study.

Membership of professional institutions

Honours graduates in Biology (either Major or Dual Honours) are eligible to become an Associate Member (AMSB) of the Society of Biology.

Some more ideas...

Biology and Biochemistry

Many of our students choose to combine Biology and Biochemistry in order to cover the entire range of the life sciences discipline, from molecules and cells to whole organisms. Biochemistry will show how cells work at a molecular level, whereas in Biology the whole organism is looked at, from its physiology to the way it is adapted to its environment.

Biology and Psychology

If this combination is studied, students will gain an understanding of both the anatomical and the physiological basis of human behaviour. In the second and third year students will be able to focus their Biology studies on aspects of human biology and neuroscience that will complement their studies in Psychology. The study of animal behaviour shows some of the roots of human activities and cognitive abilities. Students will learn the modern science of genetics, which in turn defines the limits within which the human body and brain develop. The way in which individual nerve cells work to produce emergent

properties of perception, learning and consciousness itself will throw a completely different light on Psychology from that of the social sciences, but in a way that is entirely complementary. This combination of subjects offers the opportunity to gain a fuller understanding of the human condition than either subject studied alone.

Applied Environmental Science and Biology

The blend of Applied Environmental Science and Biology gives graduates a balanced view of how the physical environment interacts with the living environment and thus provides insights into conservation, sustainability and the potential threats of human activities. Graduates will be ideally suited to careers in ecological and environmental consultancy, environmental-biological research, environmental education and more general careers.

See also: [Biology and Smart Systems](#), page 109.

“The variation in methods of assessment was a great feature.”

Biology student

Point of pride

Placements at the Pasteur Institute in Paris, which has won eight Nobel prizes.



Biology: Human Biology

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 40

Study abroad: Yes

UCAS	Dual Honours combinations
NC1C	Accounting
TC7C	American Studies
FC71	Applied Environmental Science
CC8D	Applied Psychology
CF1M	Astrophysics
CC7C	Biochemistry
FC1C	Chemistry
GC4C	Computer Science
GCK1	Creative Computing
MC91	Criminology
LC1C	Economics
XC3C	Educational Studies
QC3C	English
PB3C	Film Studies
NC3C	Finance
FC4C	Forensic Science
FC81	Geography
FC6C	Geology
CL1R	Human Geography
CN1P	Human Resource Management
GC51	Information Systems
CL1F	International Relations
CM1C	Law
CG1C	Mathematics
CP19	Media, Communications and Culture
CF1C	Medicinal Chemistry
CJ19	Music Technology
CF1V	Physical Geography
CF1H	Physics
CL1G	Politics
CC1V	Psychology
GC7C	Smart Systems
CF10	Human Biology with Science Foundation Year. This four-year degree course is designed for students who wish to study Human Biology but lack the necessary background qualifications. See page 273.



The course offers

- A new and fascinating Dual Honours science course
- Relevance to science, health, the environment and industry
- The opportunity to study the systems of the body and how they are affected by disease
- A great combination with other science or humanities subjects

Human Biology involves the study of the human body and how it is adapted to its environment. This course is designed to equip students with a broad-based understanding of the human body in health and disease. The course begins with two modules shared with the Biology course, but the emphasis is on humans. Students will learn about the physiology and pathology of the major systems of the body, about the impact of nutrition and environment on health, and about human development and evolution.

The course includes practical classes that provide first-hand experience of biology, genetics and human physiology and anatomy. Students will also carry out research-based projects from a wide choice that involve either hands-on research or further study.

This degree course will equip its graduates with knowledge and understanding that will allow them to follow career paths in science, health or industry, depending on where their strengths and interests lie.

Degree routes

Four-year courses: Science Foundation Year and sandwich course

It is possible to add a fourth year to the course in order to tailor it to suit individual needs. There are essentially two ways in which this can be done:

- Add a Science Foundation Year prior to the start of the three-year course
- Take a sandwich course, by including an industrial placement after two years of the three-year course

Only one of these options can be selected.

Sandwich course

We offer BSc students the opportunity to undertake a 48-week placement at the end of their second year, in an approved government or industrial establishment or field centre. This placement year can provide not only practical skills training, but also valuable transferable skills and time for personal development.

The experience gained may prove particularly beneficial when students return to the University and in the early stages of their career. While we will attempt to find suitable placements, this cannot be guaranteed and students will be encouraged to make their own contacts, which we will need to check prior to approval. Students will be required to reach defined standards in their second year assessments to become eligible for the sandwich year.

Course content

The course involves learning about the human body in health and disease and examines human health from a scientific and clinical perspective. It also covers environmental issues related to health, and how we impact on the environment.

Year 1

Core modules provide the basic background needed for subsequent years. The modules *Human Physiology* and *Human Physiology and Pathology* provide an introduction to the major systems of the body and how they are affected by disease. Practical sessions associated with these modules include, real-time physiological measurements, human anatomy and microscopy.

Cell and Molecular Biology examines the molecules and structures behind biological

function. In *Genetics and Evolution*, the fundamentals of inheritance and evolution are studied.

Year 2

Nutrition and Energy Balance provides a fascinating insight into the requirements and importance of nutrition and the consequences of dietary deficiencies on human health and development. *The Research and Analytical Skills* module provides you with key transferable skills such as the use of databases and the statistical tools required to analyse experimental results. In *Human Genetics*, you will study how genetics influences human variation, and examine its relevance to disease. It also explores the clinical applications of modern genetic techniques and the significance of the human genome project. In *Development and Evolution of Nervous Systems*, the development of the human nervous system and its evolutionary path relative to other nervous systems is studied.

Finally, in other modules, you will learn about how climate change and pollution are having an increasing impact on human health (*Health and the Environment*) and human impact on the environment with regard to ecological functioning and balance of the natural environment (*Human Impacts on the Environment*).

Year 3

There is scope for learning about and exploring emerging issues of interest and importance in Human Biology. There is an increased emphasis on self-directed learning and you will have the opportunity to express and develop your learning in each module.

All students do a research project or dissertation in an area relevant to Human Biology, and three additional modules. In addition, students are given the opportunity to present their research to their peers and staff.

In *Clinical Pathology*, you examine the roles of molecular techniques in the diagnosis and treatment of disease. Specifically in the area of parasitic diseases, *Human Parasitology* examines transmission, pathogenesis, pathology, immune response, diagnosis, treatment and control of human parasitic diseases such as Malaria. Technologies that have impacted on prevention, diagnosis, treatment, palliative care and control of relapse of a range of medical conditions are explored in *Advances in Medicine*; including Stem Cell Research and Personalised patient treatment. The latter two modules, are new and benefit from teaching input from

research and clinical staff at Keele University and North Staffordshire University Hospital. In *Biology of Disease*, you write an extended essay of a chosen disease or medical issue. An additional new module, *Human Evolution* examines the earliest origins of humans and their migration out of Africa.

Teaching and assessment

The course is taught by a combination of lectures, laboratory classes and tutorials, with interactive computer-aided learning to provide additional back-up to the more formal group teaching. Students will be assessed by a combination of essays, practical work, in-course assessment and examinations.

Skills and careers

As well as learning about the fundamentals of Human Biology and developing an interest in this fascinating field, students will acquire a whole range of skills that will be useful in any career. These include: organisational skills in collecting and organising information from many different sources; planning skills; the ability to present information clearly and coherently; and manipulative skills in carrying out delicate practical work and numerical skills in the handling of data. Students will also develop a scientific and analytical approach to solving problems that can be applied in many different situations, and will be of great value to any employer.

The most popular science subject combinations with Human Biology are Psychology, Biochemistry and Computer Science. These combinations offer opportunities for careers in, for example, medically related laboratory science, the pharmaceutical industry or in IT, and many students develop interests that lead to a higher degree and a career in research. However, non-science combinations with Human Biology also offer a wide range of opportunities.

Study Abroad

All students have the opportunity of spending a semester at a partner university in the USA, Canada, South Africa or Australia, among others, replacing a semester of study.

Alternatively, if choosing the sandwich option, students can spend that year working at one of 16 European laboratories under the ERASMUS work placement scheme.

Biology: Human Biology



Some more ideas...

Human Biology and Biochemistry

Life depends on chemistry, and we are a complex collection of molecules working together. The combination of Human Biology and Biochemistry would allow students to get to grips with the chemical end of human life, from the gases we breathe through proteins and cells to drugs and disease. A career in laboratory science, research, teaching or industry would potentially be possible.

Human Biology and Psychology

With this combination, students will gain an understanding of the anatomical and physiological basis of human behaviour and of the choices and problems facing modern humans. The Psychology course would complement Human Biology by

providing an understanding of a person's most distinctive organ, the brain.

Human Biology and Human Geography

Human Biology is principally concerned with the biology of humans, but human behaviour can impact on the environment and our changing environment is having an increasing impact on human health worldwide. With this combination, students could fully explore this area with these two complementary subjects. Careers in world health, journalism and politics are possible choices.

Point of pride

Teaching delivered by research and clinical staff at Keele University, North Staffordshire University Hospital, and the Guy Hilton Research Centre (affiliated to Keele University and NHS), a world-leading centre for translational research.



Biomedical Science

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 65

Study abroad: Yes*

UCAS Single Honours programmes

C900 Biomedical Science

C933 Biomedical Science with Science Foundation Year. This four-year degree course is designed for students who wish to study Biomedical Science but lack the necessary background qualifications. See page 273.



The course offers

- A Single Honours course taught by research scientists, hospital biomedical scientists and clinical staff
- Specialist optional modules in the second and third years to provide a choice of routes according to interests
- All students undertake a practical research project in the third year
- Can be combined with an optional Science Foundation Year for students who have not studied Chemistry to A- or AS-Level
- An optional industrial placement between the second and third years. If taken in an approved training laboratory, this may provide an opportunity to begin work towards completion of an IBMS Certificate of Competence Registration Portfolio
- An opportunity, at the end of the first year, to apply for transfer to the Health Professions Council (HPC) approved Applied Biomedical Science programme with an integrated pathology laboratory placement. This course is also IBMS-accredited and successful graduates will also be awarded an IBMS Certificate of Competence, providing the necessary qualifications for licentiate membership of the IBMS (subject to availability of places and selection criteria); see webpage: www.keele.ac.uk/lifesci

The Biomedical Science course differs from the University's normal degree pattern in that it is a Single Honours course. Nevertheless, it still conforms to Keele's interdisciplinary pattern and contains modules taught by staff from within the School of Life Sciences, the School of Medicine and the Pathology Service of the University Hospital of North Staffordshire.

The Biomedical Science course comprises a unique blend of those sciences that form the basis of the modern methods used in the diagnosis, prevention and treatment of disease and in related areas of research. Students will learn about the workings of the human body in health and disease from the cell and molecular level right through to whole-body physiology. Students will also gain first-hand experience of the organisation and operation of the Pathology Service in a busy teaching hospital that serves a large population base. The accredited Keele degree prepares students for a wide variety of careers, for example, working in a hospital pathology laboratory, or alternatively to pursue the many career options in research, industry, sales, marketing, etc. open to a Biomedical Science graduate.

* If students take the Study Abroad option, they cannot graduate with an IBMS-accredited Biomedical Science degree.

Course content

Initially, students will gain a thorough grounding in mammalian biology and biochemistry to permit them to build up a detailed appreciation of the relationship between normal metabolic events and those disturbances of cell structures, intercellular signalling systems and the immune system that contribute to the gross pathology. Later modules will build on this foundation to give students a good insight into the ever-expanding subject of the relationship between disease and the human genome. In addition to these core areas, the programme will also cover key subject areas, including clinical chemistry, haematology and transfusion science, histopathology, cytology, medical microbiology, virology and immunology. Throughout the course various modules seek to integrate the core Bioscience and key subject areas to give the overall picture of the biology of human disorders and disease and to look at the disease process from a medical practitioner's perspective.

Year 1

You begin the course with an Introduction to Medical Laboratory Science during which you will meet and learn from biomedical scientists based in the NHS Pathology Service. You will also take a group of modules which introduce the four cornerstones on which modern medical biochemistry and molecular biology are built:

- *Proteins and Enzymes*
- *Information and Inheritance*
- *Metabolism: Major Metabolic Pathways*
- *Cells and Organelles*

Introduction to Human Physiology and Human Physiology and Pathology modules cover the function and dysfunction of the human body at the organ level while serving to provide grounding in the functional organisation of the nervous system. In all of these, you will have the opportunity to develop practical skills in a comprehensive programme of laboratory classes.

You will be able to integrate these subjects and apply your knowledge and understanding of Biomedical Science to the analysis of case-based clinical scenarios in Case Studies in Medicine, which uses problem-based learning in small student-led tutorial groups, to encourage teamwork as well as develop discursive and investigative skills.

Year 2

You will begin to select a combination of modules that reflects your own developing interests within the broader field of Biomedical Science. All students take the modules *Medical Laboratory Sciences I and II*, which discuss the role of the biomedical scientist in the NHS Pathology Service. These provide practical experience in modern diagnostic methodologies as well as an understanding of the multifaceted nature of the modern clinical environment.

In addition, you will take a range of Biochemistry modules that consider, for example, the relationship between altered metabolism and disease (*Metabolism in Health and Disease*); how cell activities are controlled by hormones and other signals (*Endocrinology and Cell Signalling*); and the ways in which the developing understanding of the human genome affects the diagnosis and treatment of disease (*Gene and Protein Engineering*).

You will also study aspects of the immune system and learn about structure and function and how the mammalian body copes with infection (*Molecular, Cellular and Structural Immunology*), while the module Human Genetics examines the importance of human diversity and the environment in relation to health and disease. The module, *Research and Analytical Skills*, teaches you the skills that you will need for your final year research project, including how to design experiments, how to analyse and interpret data analysis and how to carry out literature searches.

On completion of the second year you can either choose to undertake a one-year industrial placement in an approved hospital, academic or industrial laboratory, or you can elect to move straight into the third year of your course at Keele.

Year 3

Students taking Dual Honours take four core modules, including *Biology of Disease* and *Acquisition, and Analysis and Communication of Information*. They build on and consolidate your learning of the subject as well as developing valuable communication skills. You also have a choice from modules that cover topics that reflect the research interests of the staff. In addition, all Biomedical Science students undertake a practical research project. This gives you the opportunity to investigate one of a variety of areas of medically-related research. You will learn skills of report writing, poster and oral presentation and data analysis as well

as having the opportunity to use techniques and equipment not encountered earlier in the course.

Biomedical Science modules currently offered:

First year

- *Nature's Tools: Proteins and Enzymes*
- *Information and Inheritance*
- *Metabolism: Major Metabolic Pathways*
- *Cells and Organelles: Biochemical Aspects of Cell Biology*
- *Introduction to Medical Laboratory Science*
- *Case Studies in Medicine*
- *Introduction to Human Physiology*
- *Human Physiology and Pathology*

Second year

- *Medical Laboratory Sciences I & II*
- *Metabolism in Health and Disease*
- *Gene and Protein Engineering*
- *Molecular, Cellular and Structural Immunology*
- *Research and Analytical Skills*
- *Human Genetics*
- *Endocrinology and Cell Signalling*
- *Professional Relationships*
- *Elective*

Third year

- *Experimental Research Project*
- *Non-experimental Research Project*
- *Biology of Disease*
- *Biochemistry in Practice: Acquisition, Analysis and Communication of Information*
- *Clinical Pathology*
- *Biochemistry and Therapy of Disease*
- *Structural Biology and Macromolecular Function*
- *Case Studies in Biomedical Science*
- *Behavioural Neurobiology*
- *Neurobiological Basis of Brain Disease*
- *Neurobiology of Vision and Hearing*

Biomedical Science



Applied Biomedical Science

Students who wish to follow a career in the pathology laboratories of the NHS may, during their first year of study on the Biomedical Science programme, apply for selection onto the HPC-approved and IBMS-accredited Applied Biomedical Science (ABMS)* route. ABMS graduates are eligible to apply for HPC registration as Biomedical Scientists.

Following a common first year of study, students will combine their academic studies with an integrated training programme in a pathology laboratory, with placements over the Easter and summer vacations (opportunities may also be available to apply for 46-week placements). While the majority of the Level 2 and 3 curriculum is shared with the usual Biomedical Science route, you will undertake a year-long core module at Level 2, **Professional Relationships**, which will provide preparation for your placement and which aims to develop your appreciation of the skills and attitudes necessary for working as part of a team in a multiprofessional healthcare environment. At Level 3, a core module, **Case Studies in Biomedical Science**, builds on experience gained in the placement and uses student-centred problem-based learning to explore topical issues relating to health trends within the UK.

A further core module, **Applied Biomedical Science Placement**, ensures that you meet all the HPC Standards of Proficiency necessary for eligibility for HPC registration as a Biomedical Scientist.

*Availability of this route is limited by placement availability. Due to the selection procedure during the common first year of study, students applying for Biomedical Science cannot be guaranteed a subsequent transfer to the Applied Biomedical Science course. Full details of the selection criteria are given at: www.keele.ac.uk/lifesci

Four-year course with industrial placement

As indicated previously, the opportunity exists for students to undertake a 48-week placement at the end of the second year. This year can provide not only practical skills training, but also valuable transferable skills and time for personal development. Many students find that the experience they gain during this year proves particularly beneficial when they return to Keele for their final year, and in the early stages of their career. Students who are considering a career within

the NHS Pathology Service may have the opportunity to use their placement year to begin work towards completion of an IBMS Certificate of Competence Registration Portfolio, which can then lead to HPC registration on graduation, if their placement is in an approved laboratory.

Students should note that applicants for NHS placements and those intending to follow a career in the NHS will be required to make a full disclosure of all criminal convictions or police cautions (even if the offence is considered to be spent) on application to the NHS. Disclosure of a criminal record will not automatically prevent employment and each case will be considered individually.

Alternatively, if choosing the sandwich option, students can spend that year working at one of 16 European laboratories under the ERASMUS work placement scheme.

Teaching and assessment

In addition to the lecture courses and small group tutorials, laboratory classes are used to introduce modern analytical and diagnostic techniques, and to give hands-on experience of equipment used in both routine diagnosis and research in a modern hospital laboratory. Students will also be given many opportunities to become familiar with word processing, spreadsheets and graphics software as well as computer-based routes into the scientific literature.

All modules are assessed within the semester in which they are taught. Most contain elements of both 'in-course' assessment (in the form of laboratory reports, essays, posters and oral presentations) and formal examination, although some are examined by 'in-course' assessment alone. Normally, modules that are assessed by both examination and 'in-course' assessment are organised so that 25% of the mark derives from coursework and 75% from the formal examination.

Course accreditation

An important feature of the Keele Biomedical Science degree is the specialist training it provides to those students considering a career in the NHS Pathology Service. Every year, a significant proportion of our graduates follow this career path and the course has been fully accredited by IBMS, providing the necessary qualification for this career pathway.

Skills and careers

Biomedical Science graduates emerge with a thorough knowledge of molecular biology and medical science which allows them to take up a career in one of the healthcare professions, in a hospital laboratory, with a medical instrument or pharmaceutical company, or as a medical research scientist. Graduates with good honours degrees are also eligible to study for higher degrees in a wide variety of medically-related, scientific disciplines.

“Made the subject understandable, interesting and enjoyable.”

“An interesting course; extremely well taught.”

Point of pride

Accreditation by the Institute of Biomedical Science (IBMS).

Business Economics

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 20

Study abroad: Yes

UCAS Single Honours programmes

LNC3 Business Economics

L1L3 Business Economics with Social Sciences Foundation Year.

This four-year degree course is designed for students who wish to study Business Economics but lack the necessary background qualifications. See page 275.



The course offers

- A supportive and challenging learning environment
- A thorough training in analytical techniques for economic, financial and managerial decision-making
- Extensive choice of options across a range of disciplines
- The option to study abroad for a semester
- A wide range of career opportunities in business, finance and government

The Single Honours Business Economics course provides a systematic study of material drawn from economics and business-related fields. The course aims to familiarise students with the major functions and techniques relevant to business decision-making. It is mainly taught by Keele Management School.

Our teaching is motivated by the following aims, to:

- help students to explain a diverse range of real-world business phenomena in terms of a small set of unifying core economic principles
- help students to develop independence and self-confidence in their work and to be able to co-operate with colleagues
- combine theoretical analysis with up-to-date factual knowledge about real business phenomena
- develop students' ability to use professional software tools for the analysis of real business data
- develop students' ability to present complex findings in a well-balanced and concise manner

Course content

Business Economics provides a thorough training in analytical techniques for economic, financial and managerial decision-making. The course offers a very flexible programme for students with an interest in the economic, financial and business world and provides the opportunity to study an unusually wide range of business-related topics.

Year 1

Six core modules are studied covering the basic elements of economic and financial decision-making:

Households, Firms and Government introduces the basic concepts of supply, demand and price, the principles underlying household and firm decision-making and the effect of market intervention on these decisions.

Management in Context looks at the nature of management, the development of management thought, planning, decision-making, organising, staffing, leading and controlling.

Accounting Principles examines the basic concepts of financial accounting and how these may be used to construct and interpret financial accounts for an organisation.

Economics of Financial Markets studies the connections between the financial system and the wider economy; financial institutions and financial products and the markets in which they operate; and tools for the basic analysis of behaviour and decision-making within financial markets.

Quantitative Methods develops basic mathematical and statistical methods, such as calculus, probability, hypothesis testing and univariate regression used extensively in Economics and Finance.

Output, Inflation and Employment introduces concepts of national income, investment and consumption and theories of their determinants, and issues concerning the management of the economy, especially unemployment and inflation.

Modules from a range of electives can also be taken, including:

- Business Law
- Financial and Management Accounting
- Marketing Principles
- Foundations of Human Resource Management
- Strategic Thinking

Year 2

Five core modules are taken:

Price Theory covers more advanced analysis of the consumer and the firm, examining the factors that underpin demand and supply in markets.

Introduction to Econometrics uses statistical methods to investigate selected economic and financial issues such as consumption functions, household labour supply and asset pricing.

Asset Pricing introduces the relationship between risk and return in financial markets and the role of arbitrage in determining asset prices.

Open Economy Macroeconomics examines the role and capability of government demand management policies in an open economy. The module systematically develops an open economy model and examines the efficacy of monetary and fiscal policy for stabilising output and employment in the context of capital mobility and flexible exchange rates.

Portfolio Choice builds upon Asset Pricing and explores the rationale for holding portfolios and the advantages this brings as a way of diversifying risk for private investors and large financial institutions, such as insurance companies.

Three electives from the areas of Economics, Finance, Management, Human Resource Management and Marketing may be chosen.

Year 3

The following core modules are taken:

Market Imperfections and Market Failure introduces a variety of advanced topics including: imperfect competition, decision-making under risk and uncertainty and the efficient provision of public goods. These issues are illustrated with examples including collusion in oligopolies, managerial incentives, auctions, tenders and procurement issues, bank lending.

Dynamic Macroeconomics explores the significance of macroeconomic dynamics and their implications for macroeconomic modelling and policy in the context of key macroeconomic policy problems such as business cycles and growth.

Economic and Business Forecasting introduces basic concepts and methods of forecasting time-series data of the form commonly found in the economic and business world. This project based module provides an opportunity for independent study in the programme.

There is a great deal of flexibility in choice of elective modules – according to individual personal interests and career objectives – in the areas of Economics, Finance and

Management. These allow the possibility to venture into new fields or to undertake more advanced study of topics already encountered in earlier years.

Teaching and assessment

Teaching takes place in lectures, supported by tutorials, study groups and computer laboratory classes. Computer facilities are used extensively in Economics and Finance teaching, especially in quantitative methods, now part of the essential 'toolkit' of modern economics. Students will acquire expertise with a range of statistical, economic and modern business software, and access to major sources of information for economic and financial data.

A range of assessment methods are utilised across the programme comprising weekly or fortnightly exercises, mid-semester tests, projects, essay assignments and unseen two-hour examinations. The precise combination in each module will depend on the material covered.

Skills and careers

The programme develops and assesses a variety of transferable and subject-specific skills, all of which are highly relevant to typical career choices in economics and business. Tests and examinations assess students' ability to solve problems and address issues under time constraints, essays develop abilities in written expression and argument, while seminars give students practice in making presentations and developing powers of oral expression and argument.

Business Economics is designed to provide a high-quality, broad-based education that will prepare students for a wide range of career opportunities in industry, commerce and the government sector. Graduates from the programme have taken up careers in the City, in the prestigious Government Economic Service, in management training and in commerce and industry.

Business Economics also lays the foundation for progression to higher degrees in one or more of its component subjects. In 2010 29% of the graduating cohort in Business Economics went on to further study at Keele or at other universities.

Professional recognition

After completion of a BA Business Economics (Single Honours), the Chartered Institute of Management Accountants (CIMA) has awarded the following exemptions:

C3: Fundamentals of Business Mathematics

C4: Fundamentals of Business Economics

Business Management

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 200

Study abroad: Yes

UCAS Dual Honours combinations

NN42	Accounting
NT97	American Studies
FN72	Applied Environmental Science
CN8F	Applied Psychology
FN59	Astrophysics
CN79	Biochemistry
FN19	Chemistry
GN49	Computer Science
GN4F	Creative Computing
MNX2	Criminology
LN19	Economics
NX93	Educational Studies
NQ93	English
NP23	Film Studies
NN39	Finance
FN47	Forensic Science
LN79	Geography
FN69	Geology
NV91	History
LNR9	Human Geography
NN69	Human Resource Management
NG95	Information Systems
LNF9	International Relations
MN19	Law
NN25	Marketing
GN19	Mathematics
PN31	Media, Communications and Culture
FNC9	Medicinal Chemistry
NW23	Music Technology
FN89	Physical Geography
FN39	Physics
LN29	Politics
CN89	Psychology
GN72	Smart Systems
N7L3	Business Management with Social Sciences Foundation Year.

This four-year degree course is designed for students who wish to study Business Management but lack the necessary background qualifications. See page 275.



The course offers

Our highly popular Business Management Dual Honours at Keele is strongly grounded in the social sciences and provides an understanding of management and organisation that is more academically and critically informed than the more common managerial and functionally based courses.

The teaching of Business Management at Keele provides a distinctive approach to teaching and research, believing that the most productive way of studying the subject is to take a critical perspective on organisations, along with a thorough application of theory to practices of management and the development of essential analytical skills and knowledges. For this reason, our teaching and research moves between a framework of basic practices used in particular functions of management (such as accounting, marketing, human resource management) and their critical evaluation. We believe that it is important to think about and debate not just technical issues, but also national and international social trends, cultural location and ethical issues, reflecting a concern to understand these techniques within their historical context. Through extensive reading and discussion of the broad range of social science knowledge, we encourage students to engage critically with management practice in a way that is grounded in a thorough appreciation of the mechanics of contemporary organisations. We try to foster creative thinking with the belief that business and organisational futures can only be realised by considering the wider issues raised by current practice.

Our Business Management Dual Honours graduates have an impressive employment record. First destination figures indicate that, on average, over 90% of our graduates are either in appropriate employment or engaged in relevant further studies within six months of completing their degree.

For more information on the course go to:
www.keele.ac.uk/kms/ug/babusinessmanagement

Course content

Year 1

The following core modules are taken:

Management in Context introduces the concepts of management and organisations, and places them in a historical, political and economic context.

One of the following modules may then be chosen:

Globalisation introduces the global business environment focusing on the operations of international businesses and the global market framework in which they operate.

or

Marketing Principles provides a general understanding of the key concepts, tools and theories of relevance to marketers today, in a variety of contexts such as services, business-to-business, social and not-for-profit marketing.

or

Foundations of Human Resource Management explores the nature of the employment relationship from a historical perspective identifying the principal theoretical bases for understanding the development of Human Resource Management.

Modules can also be taken from a range of electives, including:

- *Markets and Hierarchies*
- *Business Law*
- *Quantitative Methods*
- *Accounting Principles*
- *Financial and Management Accounting*

Year 2

Basic knowledge gained in the first year is built on, by taking the following core modules:

Organisational Behaviour explores theoretical insights as they have developed in relation to organisations and management. It examines the way in which people behave and interact as members of a business or other organisation.

Operations and Quality Management encourages the exploration of key quality concepts and techniques within specific organisational contexts and the consideration of why quality is crucial to organisational success.

Modules can also be taken from a range of electives, including:

- *Social Theory at Work*
- *Corporate Social Responsibility*
- *Critical Perspectives on Management Research*
- *Research Methods*

Year 3

There are four modules: two core modules and two electives.

The two core modules are:

Business Strategy examines the formation of organisation strategies, placing emphasis on the idea of 'thinking strategically' at the industry level.

Contemporary Issues in Management builds on knowledge and insights gained from organisational theory and sociological approaches to human behaviour to focus on key debates unfolding in management theory.

The range of electives currently includes:

- *Identity, Culture and Organisation*
- *International Business Strategies*
- *Innovation and Change Management I & II*
- *Strategic Human Resource Management*
- *Managing Supply*
- *Leading, Change and Entrepreneurship*
- *Managing Diversity*
- *Independent Study Project I & II*

Study Abroad

The Management School is keen to promote the opportunity for students to spend a semester studying Business Management at a partner institution in the EU, Australia, Asia, South Africa or North America. Students study abroad for either the first or second semester in their second year and take a series of modules at the partner university that are equivalent to those at Keele. Keele International's Study Abroad Office oversees the process and offers excellent support for students both as they prepare for their study abroad trip and while they are away.

For more information go to:
www.keele.ac.uk/studyabroad/

Teaching and assessment

Teaching is by a combination of lectures, classes and supervised individual and group work. Throughout the course, we pay attention to the development of skills that students will need after graduating. This includes the development of communication and presentation skills in classes, while students will develop the ability to work as part of a team through group work.

Skills and careers

As well as providing an intellectually stimulating course of study, the Business Management programme will equip students with leading-edge skills and knowledge that will be of practical use in future careers.



Some more ideas...

Business Management and Finance

The Business Management and Finance degree enables students to work across disciplines and combines a good grounding in the social sciences. As such, it is reflective of the breadth of knowledge and understanding that Keele University seeks to promote, and will equip students with a wide range of skills and theoretical perspectives relevant for the understanding of finance and organisations. The Finance part of the course draws on accounting techniques and economic theories to provide students with a thorough understanding of the working of financial markets and their connection to the wider economy.

The Business Management part of the course will enable students to situate their understanding of finance and economics within broader organisational, historical and social contexts, as well as comparing financial and economic perspectives with theoretical perspectives developed within the social sciences. This combination will enable students not only to develop a broad range of skills, but also to examine organisations and markets from the perspectives of different stakeholders.

“I was absolutely thrilled to make it to the final. It was a huge surprise, especially after meeting the other candidates. The whole process was tough but great fun, and a real eye-opener into what the interview process will be like after university.”

Alyson Bird,
Business Management and Psychology

Alyson Bird, Business Management and Psychology, made it through to the top ten finalists in the management category of the Targetjobs Undergraduate of the Year awards. Alyson's prize was a ten-week internship at Enterprise Rent-A-Car's UK Head Office.

Chemistry

Course: Dual Honours, Major

Entry requirements: See page 283-292

Approximate intake in 2013: 80

Study abroad: Yes

UCAS Dual Honours combinations

CF8C Applied Psychology

FF15 Astrophysics

CF71 Biochemistry

CF11 Biology

FN19 Business Management

FM19 Criminology

FG13 English

FP13 Film Studies

FNC3 Finance

FF41 Forensic Science

FLC7 Geography

FF16 Geology

FV11 History

FC1C Human Biology

FLD7 Human Geography

FN16 Human Resource Management

FN11 International Business

FLD2 International Relations

FM11 Law

FN15 Marketing

FG11 Mathematics

FW13 Music

FW1J Music Technology

BF11 Neuroscience

FV15 Philosophy

FF81 Physical Geography

FF13 Physics

FL12 Politics

CF81 Psychology

FL13 Sociology

FI00 **Chemistry (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.

FI03 **Chemistry with Science Foundation Year.** This four-year degree course is designed for students who wish to study Chemistry but lack the necessary background qualifications. See page 273.



The course offers

- **BSc Chemistry (Dual Honours and Major) degree courses**
- **Semester abroad**
- **Opportunities for industrial placement**
- **A dynamic and innovative curriculum**
- **High-quality award-winning teaching**
- **An enthusiastic and approachable teaching team**
- **Modern laboratory facilities with dedicated IT facilities**
- **Hands-on experience with a wide variety of instruments and analytical techniques**
- **Support in making the transition to university**
- **Personal and Year Tutors to support personal and professional development and monitor welfare**

Chemistry is the central science, disciplined in its experimental approach, highly creative and imaginative in its thinking and life enhancing in its impact. The contribution of Chemistry to our world ranges from the silicon wafers that drive computers and the high-tech, high-spec materials used on the Space Shuttle, to the life-saving drugs that are a vital part of modern medicine. This wide diversity of Chemistry is reflected both in the teaching and research within Chemistry at Keele.

Degree routes

Chemistry may be studied for the following modular degrees, all involving some interdisciplinary aspects:

- **BSc Dual Honours:** with a second subject studied for three years
- **BSc Chemistry (Major):** including study of a second subject in the first and second years

Course content

The four first year modules provide a solid grounding in core chemical principles that underpin the study of Chemistry to an advanced level. The modules cover the breadth of Chemistry from its physical concepts to important synthetic and analytical methods. The course structure encourages an integrated approach and many aspects are taught in context using real-world examples. The practical classes offer training and experience in a variety of practical and modern instrumental techniques combined with the processing and analysis of experimental data. Many of the practical experiments place Chemistry in a real-world context and are linked directly to the lecture material. Dedicated mathematics support is offered to students without A-Level Mathematics in the form of weekly combined lecture/problem sessions (two hours per week during the Autumn Semester) taught by Chemistry staff and placed in a Chemistry context.

In the second year, the Chemistry course adds both breadth and depth to students' chemical knowledge, again utilising real-world examples to place the subject firmly in context, and develops problem-solving, analytical and research skills to a more advanced level. Greater experience of laboratory techniques and analytical instruments is gained in practical classes; while a variety of assessment methods ensure that students develop skills in line with Keele's Graduate Attributes.

The final year is structured to enable students to study advanced chemical concepts in a variety of research-orientated lecture topics. All students undertake a research project allowing experience of chemistry research at first hand.

Dual Honours students study two taught modules in the Autumn Semester and research topics in Chemistry in the Spring Semester, and undertake a research project module. Chemistry (Major) students study three taught modules in the Autumn Semester and research topics in both

Chemistry and Medicinal Chemistry in the Spring Semester as well as undertaking a double-module research project and a module on **Advanced Chemical Analysis**.

Chemistry modules currently offered:

Our Chemistry and Medicinal Chemistry courses have a common first year enabling students to transfer between the two courses up to the beginning of the second year.

Year 1

Electrons in Atoms and Molecules helps students develop a systematic understanding of the fundamental principles and models required to make sense of atomic and molecular structure, bonding and spectroscopy.

The Physical Basis of Chemical Processes is concerned with the physical and chemical properties of compounds in relation to molecular structure as well as why and how chemical processes happen. This module includes the fundamental principles of chemical thermodynamics and chemical kinetics, amongst other topics.

Making Organic Molecules investigates a range of organic chemical reactions from saturated hydrocarbons to aromatic compounds and examines the mechanisms through which they occur.

Navigating the Periodic Table explores the series and trends found within the periodic table, developing the ideas introduced in first semester modules, focusing on the chemistry of main group and transition metal elements.

Year 2

Organic Synthesis and Chirality focuses on the synthesis and reactivity of acyclic, cyclic and aromatic compounds, and the use of selective reagents and protection/direction of groups to achieve selectivity.

Spectroscopic Methods covers the theory and applications of spectroscopy in Chemistry, covering the use of spectroscopic techniques such as Nuclear Magnetic Resonance, X-ray Diffraction and Infrared Spectroscopy to determine structural properties of a wide range of organic and inorganic compounds.

Organometallic Chemistry and the f-Block further develops knowledge of the synthesis and properties of main group and transition metal organometallic compounds and their applications in organic synthesis, and the general chemistry of the f-block elements.

Physical Chemistry includes properties of electrolyte solutions, equilibrium electrochemistry, quantum mechanics, statistical thermodynamics and aspects of molecular symmetry (group theory).

Year 3

Solids, Surfaces and Catalysis investigates theories of reaction rates at the molecular level, surface chemistry and inorganic solid-state chemistry.

Synthesis, Kinetics and Mechanism deals with core aspects of organic, physical and inorganic chemistry. It includes examples of organic synthetic methods, measurement of reaction rates and kinetics, and elucidation of reaction mechanism and catalytic processes.

Chemistry Research Project offers the opportunity for students to experience research at first hand. Dual Honours students carry out a single module research project, while Chemistry Major students will carry out a double module research project.

Research topics in Chemistry

Topics available include:

- *Advanced Materials*
- *Applied Catalysis*
- *Organic Synthesis*
- *Photochemistry*
- *Dynamic Electrochemistry and Fuel Cells*
- *Designer Polymers*

Chemistry



Additional modules for Chemistry Major students

Biologically Important Molecules includes case studies in drug discovery, the properties and synthesis of biomolecules, enzyme kinetics and protein crystallography.

Advanced Chemical Analysis aims to develop an in-depth knowledge of a wide range of analytical techniques and their use in the structural identification of molecules. Students will use a combination of techniques including mass spectrometry, NMR, chromatography, trace element techniques, IR and Raman spectroscopy to identify an unknown or verify the presence of specific compounds in a short project.

Research topics in Biological and Medicinal Chemistry

Topics include:

- *Antibiotics and Chemotherapy*
- *Bioactive Compounds from Plants*
- *Drug Metabolism and Toxicology*
- *NO in Drug Discovery*
- *Biosynthesis*
- *Drug Design and Synthesis*

Facilities and research in Chemistry

The main areas of research activity in Chemistry at Keele include advanced materials, clean technology and fuel cells, medicinal chemistry, chemical ecology, forensic and pharmaceutical analysis, computational chemistry, synthetic chemistry and photochemistry. Undergraduate project students have access to a wide variety of research equipment

within the school and a broad range of analytical instruments including infrared, ultraviolet/visible, fluorescence and nuclear magnetic resonance spectrometers, a wide range of chromatography techniques, catalyst testing apparatus, Raman microscopy, scanning tunnelling and atomic force microscopy, and X-ray diffraction. Over recent years our research income has been impressive, with the award of substantial funding from government research councils, the European Union, charities and a large number of industrial partners. Staff have particularly strong links with industry and attract significant industrial funding for their work.

Teaching and assessment

First and second year modules are taught in an integrated manner through a combination of lectures, dedicated practical classes and problem-solving classes. Lectures cover the core material for study, introducing students to the ideas and concepts in chemistry that are developed in problem-solving classes and in the teaching laboratory. Chemistry comes to life in brand new teaching and newly refurbished research laboratories where students will experience the excitement of experimentation and research.

Assessment of each module reflects the variety of activities experienced by our students and combines examinations and class tests with a variety of practical assessments including laboratory reports, oral presentations, poster presentations, laboratory diaries and information-retrieval exercises. Where appropriate, we employ self- and peer-assessment methods to encourage students to reflect on their own work and enhance learning. Students receive comprehensive and prompt feedback on assessed work, and staff use a variety of techniques including written, audio and face-to-face to deliver feedback.

Undergraduate students are strongly encouraged to attend our vibrant Chemical Sciences Seminar Series, where they are exposed to cutting-edge research presented by nationally and internationally recognised scientists.

Final year modules reflect the diverse and cutting-edge research interests of the academic staff. Material is presented in lectures and put into practice in problem-solving classes. Assessment includes class tests as well as critical analysis of research papers. Students also become members of a research team as they undertake projects led by academics and supported by

postgraduate and postdoctoral researchers. Assessment of project work includes a dissertation in the style of a research paper, evaluation of the laboratory diary and an oral examination.

Skills and careers

The study of Chemistry encourages students to think analytically and to develop problem-solving skills. The courses are specifically designed to develop the numerical, IT and communication skills which are highly desired by employers in all sectors.

A Dual Honours degree at Keele gives students the opportunity to study for a higher degree and typically about one third of Keele Chemistry/Medicinal Chemistry graduates elect to pursue postgraduate study.

Keele chemists have excellent employment prospects in the chemical and pharmaceutical industries. For example, combinations with such subjects as Business Management, Finance and Human Resource Management provide career opportunities in research and development, IT and marketing. Students who graduated in Chemistry are now working in areas such as patent law and environmental legislation. Dual Science graduates wishing to pursue a career in secondary school teaching are well suited to teaching an integrated science curriculum.

OpenPlus with the OU

Some applicants may be interested in applying to the OpenPlus scheme, which Keele is running in partnership with the Open University (OU). The scheme involves two years' part-time study, with the OU, followed by two years' full-time study at Keele to complete the degree programme. At the moment, this route is restricted to the combination of Chemistry with Forensic Science. Visit www8.open.ac.uk/choose/openplus/ for more details.

Membership of professional institutions

The BSc Chemistry courses are recognised by the Royal Society of Chemistry and graduates can apply to join the Royal Society of Chemistry as an associate member (AMRSC).

“Chemistry at Keele teaches you a wide range of skills that can be used in many different professions. The modern facilities and equipment allow taught theory to be put into practice, allowing a smooth transition between your degree and industry.”

David Thompson,
Chemistry and Forensic Science graduate, 2007

Some more ideas...

See also: Chemistry and Forensic Science, page 135; Chemistry and Physics, page 235.

Point of pride

Laboratory facilities

In autumn 2009, our brand new multi-user teaching laboratory suite opened. This state-of-the-art addition to our teaching facilities expands our recently refurbished synthetic and analytical laboratories and has resulted in three large, exceptionally well-equipped laboratories for the delivery of the chemical sciences, boasting one of the best science teaching facilities in the country. Our analytical laboratories contain a wide range of instruments, available for undergraduate use through laboratory practicals and final year research projects.

Chemistry: Medicinal Chemistry

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 20

Study abroad: Yes

UCAS Dual Honours combinations

CF8D Applied Psychology

FF51 Astrophysics

CFR1 Biochemistry

CFC1 Biology

FNC9 Business Management

FMC9 Criminology

FQC3 English

PF31 Film Studies

FN13 Finance

FF4C Forensic Science

LF71 Geography

FF61 Geology

FVD1 History

CF1C Human Biology

FL17 Human Geography

FNC6 Human Resource Management

NF11 International Business

FLCF International Relations

FMCC Law

FNC5 Marketing

FGC1 Mathematics

FWD3 Music

FWC3 Music Technology

BFC1 Neuroscience

FVC5 Philosophy

FF18 Physical Geography

FFC3 Physics

FLC2 Politics

CFV1 Psychology

FLC3 Sociology

F150 **Medicinal Chemistry (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form

C723 **Medicinal Chemistry with Science Foundation Year.** This four-year degree course is designed for students who wish to study Medicinal Chemistry but lack the necessary background qualifications. See page 273.



The course offers

- **BSc Medicinal Chemistry (Dual Honours and Major) degree courses**
- **Semester abroad**
- **Opportunities for industrial placement**
- **A curriculum designed to provide breadth and depth of Medicinal Chemistry knowledge**
- **High quality innovative teaching**
- **An enthusiastic and approachable teaching team**
- **Modern laboratory facilities with dedicated IT facilities**
- **Hands-on experience of a wide variety of modern instrumentation and analytical techniques**
- **Support in making the transition to university**
- **Personal and Year Tutors to monitor welfare and personal and professional development**

The search for new drugs to treat a wide range of human ailments such as heart disease and cancer remains a great challenge to the pharmaceutical and biotechnology industries. The Medicinal Chemistry course at Keele provides students with an understanding of the complex biological and chemical problems that are involved in the design and synthesis of novel therapeutic agents. The course draws on basic chemical principles to solve problems at the interfaces of chemistry, biochemistry, molecular biology and pharmacology.

Degree routes

Medicinal Chemistry may be studied for the following modular degrees, all involving some interdisciplinary aspects:

- **BSc Dual Honours:** with a second subject studied for three years
- **BSc Medicinal Chemistry (Major):** including study of a second subject in the first and second years

Course content

The four first year modules provide a solid grounding in core chemical principles that underpin the study of Chemistry and Medicinal Chemistry to an advanced level. Chemistry and Medicinal Chemistry has a common first year allowing students to cover the breadth of Chemistry from its physical concepts to important synthetic and analytical methods. The course structure encourages an integrated approach and many aspects of the subject are taught in context using real-world examples. The practical classes offer training and experience in a variety of practical and modern instrumental techniques combined with the processing and analysis of experimental data. Many of the practical experiments place Chemistry in a real-world context and are linked directly to the lecture material. Dedicated mathematics support is offered to students without A-level Mathematics in the form of weekly combined lecture/problem-solving sessions (two hours per week during the first semester) taught by Chemistry staff and placed in a Chemistry context.

In the second year, the Medicinal Chemistry course is taught in context using examples from modern drug discovery. Practical classes offer training in the techniques required for handling and characterising small quantities, enabling students to experience the process of drug discovery, and demonstrating the physical principles that control biological processes.

The final year is structured to enable students to study advanced chemical concepts in a variety of research-orientated lecture topics. All students undertake a research project allowing them to experience research first hand.

Dual Honours students study two taught modules in the Autumn Semester and research topics in Medicinal Chemistry in the Spring Semester, and undertake a research project module. Medicinal Chemistry Major students study three taught modules in the

Autumn Semester and research topics in Medicinal Chemistry in the Spring Semester, as well as undertaking a double-module research project and a module on Advanced Chemical Analysis. For Medicinal Chemistry Major students, two modules, Structural Biology and Macromolecular Function, and Biochemistry and Therapy of Disease, cover topics at the interface of Chemistry and the life sciences.

Medicinal Chemistry modules currently offered:

Our Chemistry and Medicinal Chemistry have a common first year enabling students to transfer between these two courses up to the beginning of their second year.

Year 1

Electrons in Atoms and Molecules helps students to develop a systematic understanding of the fundamental principles and models required to make sense of atomic and molecular structure, bonding and spectroscopy.

The Physical Basis of Chemical Processes is concerned with the physical and chemical properties of compounds in relation to molecular structure, as well as why and how chemical processes happen. This module includes the fundamental principles of chemical thermodynamics and chemical kinetics amongst other topics.

Making Organic Molecules investigates a range of organic chemical reactions from saturated hydrocarbons to aromatic compounds and examines the mechanisms through which they occur.

Navigating the Periodic Table explores the series and trends found within the periodic table, developing the ideas introduced in **Electrons in Atoms and Molecules**, focusing particularly on inorganic chemistry.

Year 2

Organic Synthesis and Chirality is concerned with the synthesis and reactivity of acyclic, cyclic and aromatic compounds, and the use of selective reagents and protection/direction of groups to achieve selectivity.

Spectroscopic Methods covers the theory and applications of spectroscopy in Chemistry, covering the use of spectroscopic techniques such as Nuclear Magnetic Resonance, X-ray Diffraction and Infrared Spectroscopy to determine structural properties of a wide range of organic and inorganic compounds.

Drug Design based on Biological Targets shows how the biological properties of molecules can be understood in terms of their chemical structures, and shows how the mode of action of drugs is related to chemical structure and biochemical pathways.

Biophysical Chemistry is concerned with the aspects of physical chemistry that are crucial to an understanding of Medicinal Chemistry, including the properties of electrolyte solutions, equilibrium electrochemistry, enzyme kinetics, non-covalent interactions, molecular recognition and biomolecular structure.

Year 3

Synthesis, Kinetics and Mechanism deals with core aspects of organic, physical and inorganic chemistry. The module content includes examples of organic synthetic methods, measurement of reaction rates and kinetics, and elucidation of reaction mechanism and catalytic processes.

Biologically Important Molecules focuses on key aspects of organic and medicinal chemistry. It includes case studies in drug discovery, the properties and synthesis of biomolecules, enzyme kinetics and protein crystallography.

Medicinal Chemistry Research Project offers the opportunity to experience Medicinal Chemistry research at first hand. Dual Honours students carry out a single-module research project, while Medicinal Chemistry (Major) students carry out a double-module project.

Research topics in Biological and Medicinal Chemistry

Topics include:

- *Antibiotics and Chemotherapy*
- *Bioactive Compounds from Plants*
- *Drug Metabolism and Toxicology*
- *NO in Drug Discovery*
- *Biosynthesis*
- *Drug Design and Synthesis*

Chemistry: Medicinal Chemistry



Additional modules for Medicinal Chemistry Major students

Structural Biology and Macromolecular Function aims to show how our understanding of biological function and the molecular basis of disease is enhanced and underpinned by the detailed structural information provided by structural biology. Topics include signal transduction, sequence-specific recognition of DNA, virus architecture and pathogenicity, recognition in innate and adaptive immunity, cell cycle regulation, tumorigenic mutations and apoptosis.

Biochemistry and Therapy of Disease

is intended to describe and promote understanding of the molecular basis of therapeutic intervention in a range of diseases, including bacterial, neurodegenerative, parasitic and neoplastic pathologies. It also addresses questions arising from the failure of disease therapies and describes the molecular events underlying resistance to therapy.

Advanced Chemical Analysis aims to develop an in-depth knowledge of a wide range of analytical techniques and their use in the structural identification of molecules. Students will use a combination

of techniques including mass spectrometry, NMR, chromatography, trace element techniques, IR and Raman spectroscopy to identify an unknown or verify the presence of specific compounds in a short project.

Facilities and research in Medicinal Chemistry

The main areas of research activity in Medicinal Chemistry at Keele include medicinal chemistry, natural product chemistry, chemical ecology, forensic and pharmaceutical analysis, computational chemistry, synthetic chemistry, green

chemistry and clean technology, fuel cells, catalysis, environmental science, advanced materials and photochemistry. Undergraduate project students have access to a wide variety of research equipment within the school and a broad range of analytical instruments including infrared, ultraviolet/visible, fluorescence and nuclear magnetic resonance spectrometers, a wide range of chromatography techniques, catalyst testing apparatus, Raman microscopy, scanning tunnelling and atomic force microscopy, and X-ray diffraction. Over recent years, our research income has been impressive, with the award of substantial funding from government research councils, the European Union, charities and a large number of industrial partners. Staff have particularly strong links with industry and attract significant industrial funding for their work.

Teaching and assessment

First and second year modules are taught in an integrated manner through a combination of lectures, dedicated practical classes and problem-solving classes. Lectures cover the core material for study, introducing students to the ideas and concepts in Chemistry that are developed in problem-solving classes and in the teaching laboratory. Medicinal Chemistry comes to life in brand new teaching and newly refurbished research laboratories where students will experience the excitement of experimentation and research.

Assessment of each module reflects the variety of activities experienced by our students and combines examinations and class tests with a variety of practical assessments, including laboratory reports, oral presentations, poster presentations, laboratory diaries and information-retrieval exercises. Where appropriate, we employ self- and peer-assessment methods to enhance learning. Students receive comprehensive and prompt feedback on assessed work, and staff use a variety of techniques including written, audio and face-to-face to deliver feedback.

Undergraduate students are strongly encouraged to attend our vibrant Chemical Sciences Seminar Series, where they are exposed to cutting-edge research presented by nationally and internationally recognised scientists.

Final year modules reflect the diverse and cutting-edge research interests of the academic staff. Material is presented

in lectures and put into practice in problem-solving classes. Assessment includes class tests as well as critical analysis of research papers. Students also become members of a research team as they undertake projects led by academics and supported by postgraduate and postdoctoral researchers. Assessment of project work includes a dissertation in the style of a research paper, evaluation of the laboratory diary and an oral examination.

Skills and careers

Medicinal chemists work at the interface of the physical and life sciences and, consequently, must possess advanced skills in a number of areas. Graduates from this course offer a portfolio of skills that are attractive to potential employers who value analytical, problem-solving, communication and numerical skills that are highly desired in all sectors. A Dual Honours degree at Keele also gives students the opportunity to study for a higher degree, and typically about one third of Keele Medicinal Chemistry graduates choose to do so each year.

Medicinal Chemistry graduates have excellent employment prospects, both at the cutting-edge of drug discovery and also in the wider chemical industry and related sectors. Recent graduates have entered the pharmaceutical and biotechnology industries, working in the fields of genomics, drug delivery and the development of modern technologies. Dual Science graduates wishing to pursue a career in secondary school teaching are well suited to teaching an integrated science curriculum.

OpenPlus with the OU

Some applicants may be interested in applying to the OpenPlus scheme, which Keele is running in partnership with the Open University (OU). The scheme involves two years' part-time study with the OU, followed by two years' full-time study at Keele to complete the degree programme. At the moment, this route is restricted to the combination of Chemistry with Forensic Science. Visit www8.open.ac.uk/choose/openplus/ for more details.

Membership of professional institutions

The BSc Medicinal Chemistry courses are recognised by the Royal Society of Chemistry and graduates can apply to join the Royal Society of Chemistry as an associate member (AMRSC).

“Studying Medicinal Chemistry at Keele has been an exciting experience, all the staff are really helpful and will always do their best to help you reach your full potential.”

Jennifer Dimelow,
Medicinal Chemistry and Forensic Science Graduate, July 2008

Points of pride

In Autumn 2009, our brand new multi-user teaching laboratory suite opened. This exciting addition to our teaching facilities expands our recently refurbished synthetic and analytical laboratories and has resulted in three large, exceptionally well-equipped laboratories for the delivery of chemical sciences, boasting one of the best science teaching facilities in the country. Our analytical laboratories contain state-of-the-art instrumentation, available for undergraduate use through laboratory practicals and final year research projects.

Computing: Computer Science

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013:

40 Single Honours, 50 Dual Honours

Study abroad: Yes

UCAS Single Honours programmes

G400 Computer Science

UCAS Dual Honours combinations

CG8K Applied Psychology

FG54 Astrophysics

CG74 Biochemistry

CG14 Biology

GN49 Business Management

GM49 Criminology

GQ43 English

GP43 Film Studies

GN43 Finance

FG44 Forensic Science

LG74 Geography

FG64 Geology

GV41 History

GC4C Human Biology

GL47 Human Geography

GN46 Human Resource Management

GN41 International Business

GLK2 International Relations

GM41 Law

GN45 Marketing

GG14 Mathematics

GW43 Music

GWK3 Music Technology

BG14 Neuroscience

GV45 Philosophy

FG84 Physical Geography

FG34 Physics

GL42 Politics

CG84 Psychology

LG31 Sociology

G405 **Computer Science (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.

G401 **Computer Science with Science Foundation Year.** This four-year degree course is designed for students who wish to study Computer Science but lack the necessary background qualifications. See page 273.

The course offers

Computer Science is concerned with the application of computing to a wide range of problems. Computer systems are now vital to business, government, science and society, and there is much demand for graduates with the professional understanding and practical skills to harness software and hardware technologies to solve real-world problems and to develop the systems of the future. Many of the recent advances in these areas can be attributed to developments in computing, and this trend is likely to increase in speed and impact.

The range of opportunities for graduates with computing skills continues to expand. Many of our graduates move into employment that is directly computing-related, for example as systems analysts, software engineers and consultants, working in the same context as Single Honours Computer Science graduates from elsewhere. In some cases the breadth of a Single Honours Computer Science degree is an advantage; in others the sector of employment is also related to another Dual Honours degree subject, which enables our students to offer a unique blend of skills to potential employers. A substantial number of graduates go on to study for higher degrees in a wide range of subject areas, at Keele and elsewhere.

Both BSc Single and Dual Honours Computer Science courses are available. The Single Honours course enables students to devote their studies full-time to the tools, techniques and underpinning theories that make the science and technology so innovative and exciting. It provides the greatest breadth of learning in the subject, and has been developed to meet the accreditation requirements of the British Computer Society (BCS).

The Dual Honours course is suited to those students who would like to study Computer Science with a second subject (see list) in equal weight for three years and so gain a deep understanding of a domain that either complements the discipline or to which they can then apply their computing knowledge, for example in their final year project or subsequent career.

Both courses explore the theoretical underpinnings of the discipline and place an emphasis on practical computer programming and software development. They are delivered by the School of Computing and Mathematics.

Another option, which should not be confused with the standard Single Honours Computer Science course, is to specialise exclusively (or 'major') in Computer Science in the final year of an otherwise Dual Honours Computer Science programme. This route is referred to as 'BSc Computer Science (Major)'. To apply, students should select G405 and indicate their choice of second subject for first and second years in the 'further information' section of their UCAS form. If instead students would like to study on the Single Honours Computer Science course, they should select G400 and leave the field in the 'further information' section blank.

All Dual and Single Honours computing courses, including Computer Science, have a common first semester and common entrance requirements. This retains flexibility of choice during the first semester of the first year.

The content of final year modules reflects and is informed by the research interests of teaching staff, discipline and industry trends and market requirements, giving students an opportunity to explore topics at the leading edge of the discipline.

Course content

Year 1

Single Honours Computer Science students take all, and Dual Honours and Major students take the first four, of the following six modules:

Fundamentals of Computing introduces the core concepts of the discipline, and acts as a foundation for other modules covering these topics in more detail. It enables you to understand the links between individual modules on your course, and to understand them properly in context.

Programming I introduces the fundamental concepts underlying computer programming together with techniques for applying these using a contemporary programming language. The module has a strong practical element.

Programming II teaches the use of data structures and algorithms as a means of incorporating and processing data and knowledge within programs. You will have ample opportunity to develop and practise your general-purpose computer programming skills so that in the future you are able to develop your own software solutions to problems.

Information Systems and Interaction provides students with an introduction to Information Systems and an opportunity to apply the knowledge and understanding they gain to a practical task. It also explores the human-computer interface and introduces concepts, techniques and tools that support the analysis of needs for, and design of, system interfaces. The main focus is on web interfaces.

Cybercrime enables students to actively engage in today's electronic society, with an understanding of the risks that they will encounter and the measures that may be taken to counteract them.

Computer Animation and Multimedia provides an introduction to computer graphics, animation and multimedia, and appropriate programming and media development skills for you to design and develop multimedia.

In keeping with the Keele ethos of multidisciplinary study, Single Honours students have a free choice in electing two other modules; these may be chosen from any discipline. Current choices include **Digital Video**, **Entrepreneurship**, **Making Sense of Statistics**, **Understanding Learning**, and philosophy, music and language modules.

Year 2

Single Honours Computer Science students take all, and Dual Honours and Major students take the first three and either the fourth or fifth, of the following seven modules:

Requirements, Evaluation and Professionalism develops skills in the design and execution of empirical studies to gather evidence about software systems, methods and processes. It also covers requirements engineering and enables you to recognise the professional, economic, social, environmental and ethical issues involved in the development and use of computer technologies.

Web Technologies provides an understanding of Internet communication architectures (such as client-server) with reference to standard protocols, and enables you to develop multi-tier web applications and configure the servers on which these rely.

System Lifecycles and Design provides you with knowledge of the techniques and processes to undertake the design of a system once requirements and analysis activities have been completed.

Advanced Programming Practices provides an understanding of object-oriented programming and its concepts, with particular emphasis on advanced features of Java and their applications.

Database Systems introduces you to databases and database management systems by providing theoretical knowledge and practical experience in data modelling, database design, implementation and administration.

Computational Intelligence I provides an introduction to the core computational intelligence topics of evolutionary algorithms and neural networks, their use in vision systems and robotics, and the similarities and differences between natural and synthetic intelligent systems.

Virtual Worlds introduces you to virtual worlds and their uses in business and education, showing how they can be used as an effective tool for conducting business and delivering learning resources.

In addition, Single Honours students have a free choice in electing one other module; this may be chosen from any discipline.

Year 3

A selection of more advanced and specialist modules are studied. You will also undertake an individual project that continues throughout the year under the supervision of a member of staff, culminating in a written dissertation.

Single Honours and Computer Science (Major) students choose six of the following modules, and Dual Honours Computer Science students three of the first seven:

Double-weighted Project enables you to undertake a project equivalent to two standard (15-credit) modules rather than one. This option can be used to tackle a larger or more complex problem. All Single Honours Computer Science students undertake a double-weighted project and choose six other modules.

Software Engineering Project Management provides an understanding of the scope of, and problems and techniques associated with, software engineering project management.

Games Computing delivers comprehensive knowledge of a games engine and the theory and practice of computer game design, and explores the human factors involved in game design and interactive media environments.

IT Architectures delivers the concepts, methods and tools involved in the IT architecture discipline, and examines the role of IT architects and software architecture within development projects. The module also outlines current architectural developments, such as service-oriented architectures. You will gain practical experience by undertaking a case study.

Communications and Networks extends your knowledge of principles and practice in communications and computer network technologies and their deployment.

Electronic Commerce provides a theoretical and practical understanding of the problems involved in the development of web-based electronic commerce applications.

Advanced Databases and Applications provides an advanced understanding of database techniques and current issues associated with database deployment.

Advanced Information Systems provides an advanced understanding of the use of information systems for decision support, and of the issues involved in the planning and management of information systems.

Computational Intelligence II expands on the computational intelligence themes introduced earlier in the course. It enables you to explore in greater depth, selected research-led topics at the forefront of current thinking in the rapidly evolving computational intelligence field. On completion of this module, good students will be well placed to pursue further research in industry or in academia, for example, as PhD students.

Computing: Computer Science



The last two modules may also be available to Dual Honours Computer Science students whose other subject allowed them to elect to take the relevant precursor computing modules in their first and second years.

Entry requirements

There are no specific subject requirements for entry to our computing courses, and no previous experience of computing or computer programming is assumed. The courses do not involve an advanced level of mathematics, and any mathematical knowledge needed beyond GCSE level is taught as part of the modules included in the courses.

Computing facilities

The practical work for the course will be based mainly in the school's own networked PC laboratories, with some modules using the Microsoft Windows operating system and some using Linux. The software supported includes the Java object-oriented programming language, Internet and multimedia packages, and database management systems. Web authoring software and languages, including Python, Perl, PHP and XML, are also supported.

Access to undergraduate computer equipment and network services is available both physically and by remote terminal access, 24 hours a day, seven days a week, throughout most of the year. This gives students every opportunity to develop their computing skills outside the normal practical times and to work on more complex projects at any time. Additional laboratory facilities are provided for final year projects with specialised hardware and software.

Teaching and assessment

Learning and teaching take place in a range of settings, from individual supervision for final year projects and weekly tutorials, to lectures with 100 or more students present. In the first two years Dual Honours students usually have four one-hour lectures, a one-hour tutorial or workshop and three hours of supervised practical classes each week, as part of their Computer Science studies, and Single Honours students approximately twice that. Third year modules are taught by lectures, with some tutorial and laboratory work in certain options. In the final year, students will also have regular one-to-one meetings with their project supervisor.

Students will be expected to spend a significant amount of time on their practical and tutorial assignments and private study. They will be encouraged to make use of the learning and teaching support that allows them to ask for help with any aspect of the course with which they are having problems, including any of the practical and coursework assignments.

Assessment methods vary from module to module, but we make use of both formal examinations and several types of coursework. Most modules use a mixed assessment system involving an examination, typically two hours long, and some coursework, which could be a practical assignment tackled in students' own time, a laboratory or tutorial exercise, or occasionally an essay. Students will also have the opportunity to work as part of a group, which will provide valuable experience for future employment. In the course as a whole, approximately half of the assessment is coursework or project-based, and half by examination. Assessment from modules in the second and third year counts towards final degree classification. The project forms an important part of the final year's assessment.

Point of pride

One of our students was mentioned in *Scientific American* and *The Economist* for her undergraduate project work on the mysterious Voynich Manuscript.

Some more ideas...

Computer Science and Music Technology

Computer Science is an increasingly popular combination with Music Technology. The rapid expansion of the use of computers to aid music composition, sound processing and recording has made skills in music software (whether for home, educational or professional use) very marketable. Programming skills are particularly useful for the more complex music composition environments. In addition, many of our students are well placed to follow specialist music programming courses provided as part of their studies in Music Technology. Some of our students have also completed their Computer Science final year projects in this area. Those taking this combination of subjects are well placed to take advantage of the wealth of career opportunities in the high-tech music industry either as musicians, sound engineers or software developers.

Computer Science and Mathematics

While computing and mathematics can be productively combined, no one needs to be a mathematician to study Computer Science at Keele. Any mathematical knowledge needed beyond GCSE level is taught as part of the modules included in the Computer

Science programme. That said, several of the early computing pioneers were mathematicians and there has always been a strong link between the disciplines. Abstract and logical thinking are valuable assets for all computing practitioners, from researchers to people working in the IT departments in government, industry and commerce.

Work in some specialist areas of computing, such as graphics and algorithm design, can be assisted by some mathematical knowledge. Conversely, computing skills are useful in many areas of mathematics, both pure and applied. Having computing as part of a mathematics degree profile can be a very important factor in getting suitable employment after graduation.

See also: Computer Science and Astrophysics, page 63; Computer Science and Biochemistry, page 67; Computer Science and Neuroscience, page 211; Creative Computing, page 101; Information Systems, page 103; Information Technology Management for Business (ITMB), page 105; Smart Systems, page 109.

Computing: Creative Computing

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 20

Study abroad: Yes

UCAS Dual Honours combinations

CGV4 Applied Psychology

GF45 Astrophysics

GC4R Biochemistry

GC4D Biology

GN4F Business Management

GM4X Criminology

GQ4H English

GP4H Film Studies

GN4H Finance

GF44 Forensic Science

GF48 Geography

GF46 Geology

GV4C History

GCK1 Human Biology

GL4R Human Geography

GN4P Human Resource Management

GN4C International Business

GL4F International Relations

GM4C Law

GN4M Marketing

GG41 Mathematics

GW4H Music

GJ49 Music Technology

GB41 Neuroscience

GV4M Philosophy

GF4V Physical Geography

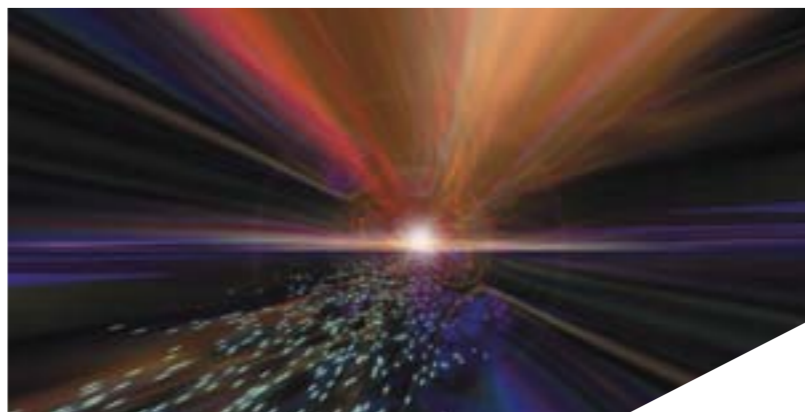
GF43 Physics

GL4G Politics

GC4V Psychology

GL43 Sociology

G450 Creative Computing with Science Foundation Year. This four-year degree course is designed for students who wish to study Creative Computing but lack the necessary background qualifications. See page 273.



The course offers

Dual Honours Creative Computing requires a solid grounding in Computer Science, and for that reason the course shares some modules with Dual Honours Computer Science. However, it is a specialist course for students with an interest in the creative side of computing, with topics such as computer animation, multimedia, web design, virtual worlds and games programming.

We anticipate that graduates of this course will move into employment within the creative industries, for example as computer animators, game designers and developers. In some cases the employment sector may also relate to another Dual Honours degree subject, which will enable our students to offer a unique blend of skills to potential employers.

The BSc Dual Honours Creative Computing course is suited to those students who would like to study Creative Computing with a second subject (see list) in equal weight for three years and so gain a deep understanding of a domain that either complements the discipline or to which they can then apply their computing knowledge, for example in their final year project or subsequent career. The course explores the theoretical underpinnings of the discipline and places an emphasis on the practical design and development of creative products such as computer animations, multimedia, web pages, virtual worlds and computer games. It is delivered by the School of Computing and Mathematics.

All Dual and Single Honours Computing courses, including Creative Computing, have a common first semester and common entrance requirements. This retains flexibility of choice during the first semester of the first year. There are no specific subject requirements for entry to our computing courses, and no previous experience of computing or computer programming is assumed. The courses do not involve an advanced level of mathematics, and any mathematical knowledge needed beyond that at GCSE level is taught as part of the modules included in the courses.

The content of final year modules reflects and is informed by the research interests of teaching staff, discipline and industry trends and market requirements, giving students an opportunity to explore topics at the leading edge of the discipline.

Course content

Year 1

Core modules

Fundamentals of Computing introduces the core concepts of the discipline, and acts as a foundation for other modules covering these topics in more detail. It enables you to understand the links between individual modules on your course, and to understand them properly in context.

Programming 1 introduces the fundamental concepts underlying computer programming together with techniques for applying these using a contemporary programming language. The module has a strong practical element.

Computer Animation and Multimedia provides an introduction to computer graphics, animation and multimedia, and appropriate programming and media development skills for you to design and develop multimedia.

Information Systems and Interaction provides students with an introduction to Information Systems and an opportunity to apply the knowledge and understanding they gain to a practical task. It also explores the human-computer interface and introduces concepts, techniques and tools that support the analysis of needs for, and design of, system interfaces. The main focus is on web interfaces.

Year 2

Core modules

Requirements, Evaluation and Professionalism develops skills in the design and execution of empirical studies to gather evidence about software systems, methods and processes. It also covers requirements engineering and enables you to recognise the professional, economic, social, environmental and ethical issues involved in the development and use of computer technologies.

Web Technologies provides an understanding of Internet communication architectures (such as client-server) with reference to standard protocols, and enables you to develop multi-tier web applications and configure the servers on which these rely.

System Lifecycles and Design provides you with knowledge of the techniques and processes to undertake the design of a system once requirements and analysis activities have been completed.

Virtual Worlds introduces virtual worlds and their uses in business and education,

showing how they can be used as an effective tool for conducting business and delivering learning resources.

Year 3

You study a selection of more advanced and specialist modules. You also undertake an individual project that continues throughout the year under the supervision of a member of staff, culminating in a written dissertation. Dual Honours Creative Computing students take the first and choose two additional of the following modules:

Games Computing delivers comprehensive knowledge of a games engine and the theory and practice of computer game design, and explores the human factors involved in game design and interactive media environments.

Double-weighted Project enables you to undertake a project equivalent to two standard (15-credit) modules rather than one. This option can be used to tackle a larger or more complex problem.

Software Engineering Project Management provides an understanding of the scope of, and problems and techniques associated with, software engineering project management.

IT Architectures delivers the concepts, methods and tools involved in the IT architecture discipline, and examines the role of IT architects and software architecture within development projects. The module also outlines current architectural developments, such as service-oriented architectures. You will gain practical experience by undertaking a case study.

Communications and Networks extends your knowledge of principles and practice in communications and computer network technologies and their deployment.

Electronic Commerce provides a theoretical and practical understanding of the problems involved in the development of web-based electronic commerce applications.

Additional computing modules may be available to students whose other Dual Honours subject allowed them to elect to take the relevant precursor computing modules in their first and second years; see the Single Honours Computer Science entry in this prospectus for a complete list, page 98.

Computing facilities

Please see the Computer Science entry in this prospectus for details, page 98.

Teaching and assessment

Please see the Computer Science entry in this prospectus for details, page 97.

Some more ideas...

Creative Computing and Music Technology

We expect Creative Computing to be a popular combination with Music Technology, just as Computer Science has been. The rapid expansion of the use of computers to aid music composition, sound processing and recording has made skills in music software (whether for home, educational or professional use) very marketable. Combining these skills with skills in other creative software, such as computer animation, virtual worlds and computer games, clearly adds new dimensions to the career opportunities of graduates.

Creative Computing and Marketing

As business and entertainment move increasingly online, new marketing opportunities are opening up. Whether through computer animations on web pages or programmed marketing in virtual worlds and computer games, the benefits of reaching customers in new ways and using new marketing strategies are growing. The combination of technical computing skills and marketing knowledge will put graduates in good stead to work in this area.

See also: Computer Science (Dual and Single Honours), page 97; Information Systems, page 103; Information Technology and Management for Business (ITMB), page 105; Smart Systems, page 109.

Point of pride

One of the students on this course is doing a final year project which involves collaborating with a Hollywood script writer, to produce software to support script writers and games developers.

Computing: Information Systems

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 20

Study abroad: Yes

UCAS Dual Honours combinations

CG85 Applied Psychology

FG5M Astrophysics

CG7M Biochemistry

CG1M Biology

NG95 Business Management

MG95 Criminology

QG35 English

PG35 Film Studies

NG34 Finance

FG45 Forensic Science

LG75 Geography

FG65 Geology

VG15 History

GC51 Human Biology

LG7L Human Geography

NG64 Human Resource Management

GN51 International Business

LG24 International Relations

MG14 Law

GNSM Marketing

GG15 Mathematics

WG34 Music

GJ5X Music Technology

BG15 Neuroscience

VG55 Philosophy

FG85 Physical Geography

FG8L Physics

LG2K Politics

CG8L Psychology

LG34 Sociology

G501 **Information Systems (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.

G500 **Information Systems with Science Foundation Year.** This four-year degree course is designed for students who wish to study Information Systems but lack the necessary background qualifications. See page 273.

The course offers

Dual Honours Information Systems requires a solid grounding in Computer Science, and for that reason the course shares some modules with Dual Honours Computer Science. However, it focuses on the software, people, data, procedures and hardware that work together to provide the information systems essential to running an organisation. Producing information systems requires teamwork and the skills to analyse a problem, to develop plans for meeting the needs as effectively as possible, to implement these plans, to test that the results are consistent, and finally, to confirm that the system meets the original need.

While there is some exposure to modern programming technologies, the course does not require study of the more detailed programming modules from Dual Honours Computer Science.

Many of our Information Systems graduates move into employment that is directly computing-related, for example as systems analysts, database engineers and managers and consultants. In some cases the employment sector is also related to another Dual Honours degree subject, which enables our students to offer a unique blend of skills to potential employers. A substantial number of our graduates go on to study for higher degrees in a wide range of subject areas, at Keele and elsewhere.

The BSc Dual Honours Information Systems course is suited to those students who would like to study Information Systems with a second subject (see list) in equal weight for three years and so gain a deep understanding of a domain that either compliments the discipline or to which they can then apply their computing knowledge, for example in their final year project or subsequent career. The course explores the theoretical underpinnings of the discipline and places an emphasis on the practical design and development of information systems, including databases and web-based systems. It is delivered by the School of Computing and Mathematics.

Another option is to specialise exclusively (or 'major') in Information Systems in the final year of an otherwise Dual Honours Information Systems programme. This route is referred to as 'BSc Information Systems (Major)'. To apply, students should select G501 and indicate their choice of second subject for first and second years in the 'further information' section of their UCAS form.

All Dual and Single Honours Computing courses, including Information Systems, have a common first semester and common entrance requirements. This retains flexibility of choice during the first semester of the first year. There are no specific subject requirements for entry to our computing courses, and no previous experience of computing or computer programming is assumed. The courses do not involve an advanced level of mathematics, and any mathematical knowledge needed beyond that at GCSE level is taught as part of the modules included in the courses.

The content of the final year modules reflects and is informed by the research interests of teaching staff, discipline and industry trends and market requirements, giving students an opportunity to explore topics at the leading edge of the discipline.

Course content

Year 1

Core modules

Fundamentals of Computing introduces the core concepts of the discipline, and acts as a foundation for other modules covering these topics in more detail. It enables you to understand the links between individual modules on your course, and to understand them properly in context.

Programming 1 introduces the fundamental concepts underlying computer programming together with techniques for applying these using a contemporary programming language. The module has a strong practical element.

Information Systems and Interaction provides students with an introduction to Information Systems and an opportunity to apply the knowledge and understanding they gain to a practical task. It also explores the human-computer interface and introduces concepts, techniques and tools that support the analysis of needs for, and design of, system interfaces. The main focus is on web interfaces.

Cybercrime enables students to actively engage in today's electronic society, with an understanding of the risks that they will encounter and the measures that may be taken to counteract them.

Year 2

Core modules

Requirements, Evaluation and Professionalism develops skills in the design and execution of empirical studies to gather evidence about software systems, methods and processes. It also covers requirements engineering and enables you to recognise the professional, economic, social, environmental and ethical issues involved in the development and use of computer technologies.

Web Technologies provides an understanding of Internet communication architectures (such as client-server) with reference to standard protocols, and enables you to develop multi-tier web applications and configure the servers on which these rely.

System Lifecycles and Design provides you with knowledge of the techniques and processes to undertake the design of a system once requirements and analysis activities have been completed.

Database Systems introduces databases and database management systems by providing theoretical knowledge and practical experience in data modelling, database design, implementation and administration.

Year 3

You study a selection of more advanced and specialist modules. You also undertake an individual project that continues throughout the year under the supervision of a member of staff, culminating in a written dissertation. Dual Honours Information Systems students take the first and choose two additional, and students majoring in Information Systems take the first two and choose five additional, of the following modules:

Advanced Information Systems provides an advanced understanding of the use of information systems for decision support, and of the issues involved in the planning and management of information systems.

Double-weighted Project enables you to undertake a project equivalent to two standard (15-credit) modules rather than one. This option can be used to tackle a larger or more complex problem.

Software Engineering Project Management provides an understanding of the scope of, and problems and techniques associated with, software engineering project management.

Games Computing delivers comprehensive knowledge of a games engine and the theory and practice of computer game design, and explores the human factors involved in game design and interactive media environments.

IT Architectures delivers the concepts, methods and tools involved in the IT architecture discipline, and examines the role of IT architects and software architecture within development projects. The module also outlines current architectural developments, such as service-oriented architectures. You will gain practical experience by undertaking a case study.

Communications and Networks extends your knowledge of principles and practice in communications and computer network technologies and their deployment

Advanced Databases and Applications provides an advanced understanding of database techniques and current issues associated with database deployment.

Electronic Commerce provides a theoretical and practical understanding of the problems involved in the development of web-based electronic commerce applications.

Additional computing modules may be available to students whose other Dual Honours subject allowed them to elect to take the relevant precursor computing modules in their first and second years; see the Single Honours Computer Science entry in this prospectus for a complete list, page 97.

Computing facilities

Please see the Computer Science entry in this prospectus for details, page 97.

Teaching and assessment

Please see the Computer Science entry in this prospectus for details, page 97.

Some more ideas...

See also: Computer Science (Dual and Single Honours), page 97; Creative Computing, page 101; Single Honours Information Technology Management for Business (ITMB), page 105; Smart Systems, page 109.

Point of pride

The Advanced Information Systems module in Year 3 features a case study which gives students hands-on experience; this year's case study involves helping a national charity extend its presence on social media such as Facebook.

Computing: Information Technology Management for Business (ITMB)

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 20

Study abroad: No

UCAS Single Honours programmes

GN52 Information Technology Management for Business (ITMB)

GN5F **Information Technology Management for Business (ITMB) with Social Sciences Foundation Year.** This four-year degree course is designed for students who wish to study Information Technology Management for Business but lack the necessary background qualifications. See page 275.



The course offers

The purpose of this Single Honours degree course in Information Technology Management for Business (ITMB) is to ensure that students gain both the technical knowledge and necessary business and interpersonal skills that are needed to jump-start a career in IT management: to meet tomorrow's business needs and to prepare students effectively for successful careers. IT is an exciting and dynamic industry but more and more employers are looking for graduates with broader skills such as business understanding, leadership, project management and communication skills. A nationwide survey of over 74,000 employers shows that gaps in the technical and professional skills of IT graduates are adversely affecting the productivity and competitiveness of British companies. UK graduates on average require a further two years of in-house training to reach the level of ability expected by their employers.

The ITMB Single Honours degree course aims to significantly reduce this burden by incorporating the training into the degree. It is endorsed by e-Skills UK, the Sector Skills Council for IT & Telecoms, and was conceived, designed in partnership with, and is supported by the e-Skills Employer Strategy Forum, a group of leading employers of IT managers such as British Airways, BT, Computer Associates, Ford UK, Fujitsu, Hewlett Packard and IBM. From the outset, students will be exposed to these employers in the form of fortnightly Guru Lectures, where senior professionals from leading employers take time out from their day jobs to broadcast live lectures via the internet.

Keele's ITMB programme is based in the School of Computing and Mathematics, with contributions from Keele Management School.

Course content

Year 1

You will study the technical foundations of computing plus progressive instruction and practice in business management and personal and interpersonal skills.

Modules at this level will include:

Fundamentals of Computing introduces the core concepts of the discipline, and acts as a foundation for other modules covering these topics in more detail.

Introduction to Information Systems provides an introduction to information systems and their main business and personal uses.

Programming I introduces the fundamental concepts underlying computer programming together with techniques for applying these using a contemporary programming language.

Programming II teaches you about the important properties of some data structures and algorithms that are of foundational importance to modern computer science and IT.

Accounting Principles introduces the fundamental concepts and key techniques of accounting. You will develop a knowledge and understanding of the basic principles of accounting, providing you with key transferable employability skills.

Business and People Skills provides both a theoretical perspective and a pragmatic viewpoint for developing your business and interpersonal skills that are needed for working individually or in teams, in a real-world corporate environment. The module offers first-hand opportunities for engaging in discussion and interacting with senior IT and business managers from leading business organisations.

Management in Context provides the first step in developing critical thinking about managing organisations and locating managers within a wider historical, economic, political and sociological context.

Marketing Principles introduces and develops a general understanding of the key concepts, tools and theories of relevance to marketers today.

Year 2

During your second year, you will deepen your technical knowledge and skills through various computing and management modules. These will include:

Database Systems introduces databases and database management systems by providing theoretical knowledge and practical experience in data modelling, database design, implementation and administration.

Computational Intelligence I provides an introduction to the core computational intelligence topics of evolutionary algorithms and neural networks, their use in vision systems and robotics, and the similarities and differences between natural and synthetic intelligent systems.

Requirements, Evaluation and Professionalism develops skills in the design and execution of empirical studies to gather evidence about software systems, methods and processes. It also covers requirements engineering and enables you to recognise the professional, economic, social, environmental and ethical issues involved in the development and use of computer technologies.

System Lifecycles and Design provides you with knowledge of the techniques and processes to undertake the design of a system once requirements and analysis activities have been completed.

Web Technologies provides an understanding of internet communication architectures (such as client-server) with reference to standard protocols, and enables you to develop multi-tier web applications and configure the servers on which these rely.

Your management skills and business experience will be enhanced through dedicated ITMB modules on Management Skills in IT and the special ITMB Work Placement.

Management Skills in IT seeks to strengthen your knowledge of management and management techniques. It draws together insights gained from organisational theory, management practice and approaches to human behaviour studied at previous levels to focus on particular areas or aspects of organisational behaviour and experience.

The ITMB Work Placement module will give you an opportunity to work on an IT management project with real clients, deadlines and constraints. This requires commitment, motivation and good time management skills. This module is normally provided as a six-week full-time work placement towards the end of the second semester of the second year of studies, allowing students to graduate within the standard three-year time frame. The school is currently looking into the possibility of

replacing this (double) module with two Management-related modules and offering instead a year-long work placement opportunity to the students. The year-long work placement will be optional making the ITMB course a four-year course if taken.

Year 3

You will study more advanced and specialist modules. You will also undertake an individual project that continues throughout the year under the supervision of an academic member of staff, culminating in a written project report. ITMB students will be offered the following modules:

Advanced Databases and Applications provides an advanced understanding of database techniques and current issues relating to database deployment.

Advanced Information Systems provides an advanced understanding of the use of information systems for decision support, and of the issues involved in the planning and management of information systems.

Communications and Networks extends your knowledge of principles and practice in communications and computer network technologies and their deployment.

IT Architectures delivers the concepts, methods and tools involved in the IT architecture discipline, and examines the role of IT architects and software architecture within development projects. The module also outlines current architectural developments, such as service-oriented architectures. You will gain practical experience by undertaking a case study.

Software Engineering Project Management provides an understanding of the scope of, and problems and techniques associated with, software engineering project management.

New Business Plan – ISP will give students first-hand experience in initiating, setting up and managing a new business venture. The module is ultimately designed to improve student employability and to widen career choice. Emphasis is placed upon the development of business skills, occupational awareness of new venture start up, self-employment and the small business sector.

Double-weighted ITMB Project enables you to undertake a project equivalent to two standard (15-credit) modules rather than one. This option can be used to tackle a larger or more complex problem.

Computing: Information Technology Management for Business (ITMB)



Computing facilities

The practical work for the course will be based mainly in the school's own networked PC laboratories, with some modules using the Microsoft Windows operating system and some using Linux. The software supported includes the Java object-oriented programming language, internet and multimedia packages and database management systems. Web authoring software and languages, including Python, Perl, PHP and XML, are also supported.

Access to undergraduate computer equipment and network services is available both physically and by remote terminal access, 24 hours a day, seven days a week, throughout most of the year. This gives students every opportunity to develop their computing skills outside the normal practical times and to work on more complex projects at any time. Additional laboratory facilities are provided for final year projects with specialised hardware and software.

Teaching and assessment

Teaching and learning take place in a range of settings, from small group tutorials to large lectures. Students can expect up to five hour-long tutorials per week in the first year, covering a range of computing, management and people skills. Students will also receive three hours of scheduled laboratory time

and around eight hour-long lectures.

In subsequent years, the contact time decreases as students take responsibility for their own learning. Students will still have scheduled lectures, tutorials and practicals totalling around 10 hours per week, together with the ITMB work placement in the second year and the supervised final year project in the third year.

Assessment methods vary from module to module, but students can expect a mixture of formal examinations (two-hour papers) and coursework in the form of programming tasks, essays, technical reports, posters and presentations. Some assessments involve group work, team building and conflict resolution skills. Many of the core ITMB modules are assessed purely by coursework and oral contributions to the tutorial sessions.

Skills and careers

Graduates of the ITMB programme will be better placed to lead the implementation of new technology that can improve the business competitiveness of their employers. Members of the ITMB Employers' Forum are so confident of this that they guarantee a job interview for every ITMB student during the summer after graduation.

The ITMB course will give students the technical skills necessary to pursue a

career in programming, system analysis and design, software engineering or IT consultancy, together with the management and communication skills necessary for a role as a team leader or project manager in the telecoms and IT sectors. Exposure to real-world problems and inspirational gurus throughout the course will give students an edge over other candidates at job interviews.

Employer involvement

A consortium of major graduate employers including British Airways, BT, Computer Associates, Ford, Fujitsu, Hewlett Packard and IBM has designed the ITMB programme. From the outset, students will be exposed to these employers in the form of fortnightly Guru Lectures, where influential and senior figures broadcast live lectures via the internet. At least one lecture per year will be delivered from Keele, giving students an opportunity to meet the guru in person.

There will also be an invitation to attend the ITMB conference each year, bringing together students from all universities offering the ITMB programme, staff delivering the course and employers. The conference takes the form of workshops and discussions that help to place the academic content of the course within a real-world context.

Professional recognition

The ITMB programme is endorsed by e-skills UK, the employer-led organisation that advises and is licensed by the UK government, as the Sector Skills Council for IT & Telecoms.

Some more ideas...

See also: Computer Science, page 97; Information Systems, page 103.

Point of pride

ITMB students get the rare opportunity to meet and show off their skills to high profile employers during a number of day-long events organised by e-skills



Computing: Smart Systems

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 20

Study abroad: Yes

UCAS	Dual Honours combinations
CG87	Applied Psychology
GF75	Astrophysics
GC77	Biochemistry
GC71	Biology
GN72	Business Management
GM79	Criminology
GQ73	English
PG37	Film Studies
GN73	Finance
GF74	Forensic Science
GF78	Geography
GF76	Geology
GV71	History
GC7C	Human Biology
GL77	Human Geography
GN76	Human Resource Management
NG17	International Business
GL72	International Relations
GM71	Law
GN75	Marketing
GG71	Mathematics
GW73	Music
GJ79	Music Technology
GB71	Neuroscience
GV75	Philosophy
GF7V	Physical Geography
GF73	Physics
GL7F	Politics
GC78	Psychology
GL73	Sociology

G700 Smart Systems with Science Foundation Year. This four-year degree course is designed for students who wish to study Smart Systems but lack the necessary background qualifications. See page 273.



The course offers

Dual Honours Smart Systems requires a solid grounding in Computer Science, and for that reason the course shares some modules with Dual Honours Computer Science. However, it is a specialist course for students with an interest in computational intelligence, with topics such as adaptive and evolutionary algorithms, neural networks, robotics, the similarities and differences between natural and synthetic intelligent systems and research and development in this exciting area.

We anticipate that some graduates of this course will move into research and development jobs in industry, or advance to PhD study in this area within Keele's Computational Intelligence and Cognitive Science Research Group or elsewhere. Other graduates will move into employment that is directly computing-related, for example as systems analysts, software engineers and consultants with a specialist knowledge of smart systems. In some cases the research or employment sector may also relate to another Dual Honours degree subject, which will enable our students to offer a unique blend of skills.

The BSc Dual Honours Smart Systems course is suited to those students who would like to study Smart Systems with a second subject (see list) in equal weight for three years and so gain a deep understanding of a domain that either complements the discipline or to which they can then apply their computing knowledge, for example in their final year project or subsequent career. The course explores the theoretical underpinnings of the discipline and places an emphasis on the practical design and development of smart systems such as those based on evolutionary algorithms, neural networks, vision systems and robotics, their scientific and industrial applications and research. It is delivered by the School of Computing and Mathematics.

All Dual and Single Honours Computing courses, including Smart Systems, have a common first semester and common entrance requirements. This retains flexibility of choice during the first semester of the first year. There are no specific subject requirements for entry to our computing courses, and no previous experience of computing or computer programming is assumed. The courses do not involve an advanced level of mathematics, and any mathematical knowledge needed beyond GCSE level is taught as part of the modules included in the courses.

The content of final year modules reflects and is informed by the research interests of teaching staff, discipline and industry trends and market requirements, giving you an opportunity to explore topics at the leading edge of the discipline.

Course content

Year 1

Core modules

Fundamentals of Computing introduces the core concepts of the discipline, and acts as a foundation for other modules covering these topics in more detail. It enables you to understand the links between individual modules on your course, and to understand them properly in context.

Programming I introduces the fundamental concepts underlying computer programming together with techniques for applying these using a contemporary programming language. The module has a strong practical element.

Programming II teaches you about the use of data structures and algorithms as a means of incorporating and processing data and knowledge within programs. You will have ample opportunity to develop and practice your general-purpose computer programming skills so that in the future you are able to develop your own software solutions to problems.

Information Systems and Interaction provides students with an introduction to Information Systems and an opportunity to apply the knowledge and understanding they gain to a practical task. It also explores the human-computer interface and introduces concepts, techniques and tools that support the analysis of needs for, and design of, system interfaces. The main focus is on web interfaces.

Year 2

You will take the first three and either the fourth or fifth of the following modules:

Requirements, Evaluation and Professionalism develops skills in the design and execution of empirical studies to gather evidence about software systems, methods and processes. It also covers requirements engineering and enables you to recognise the professional, economic, social, environmental and ethical issues involved in the development and use of computer technologies.

Computational Intelligence I provides an introduction to the core computational intelligence topics of evolutionary algorithms and neural networks, their use in vision systems and robotics and the similarities and differences between natural and synthetic intelligent systems.

System Lifecycles and Design provides you with knowledge of the techniques and processes to undertake the design of

a system once requirements and analysis activities have been completed.

Advanced Programming Practices provides an understanding of object-oriented programming and its concepts, with particular emphasis on advanced features of Java and their applications.

Virtual Worlds introduces virtual worlds and their uses in business and education, showing how they can be used as an effective tool for conducting business and delivering learning resources.

Year 3

You study a selection of more advanced and specialist modules. You also undertake an individual project that continues throughout the year under the supervision of a member of staff, culminating in a written dissertation. Dual Honours Smart Systems students take the first and choose two additional of the following modules:

Computational Intelligence II expands on the computational intelligence themes introduced earlier in the course. It enables you to explore in greater depth, selected research-led topics at the forefront of current thinking in the rapidly evolving computational intelligence field. On completion of this module good students will be well placed to pursue further research in industry or in academia, for example as PhD students.

Double-weighted Project enables you to undertake a project equivalent to two standard (15-credit) modules rather than one. This option can be used to tackle a larger or more complex problem.

Software Engineering Project Management provides an understanding of the scope of, and problems and techniques associated with, software engineering project management.

Games Computing delivers comprehensive knowledge of a games engine and the theory and practice of computer game design, and explores the human factors involved in game design and interactive media environments.

IT Architectures delivers the concepts, methods and tools involved in the IT architecture discipline, and examines the role of IT architects and software architecture within development projects. The module also outlines current architectural developments, such as service-oriented architectures. You will gain practical experience by undertaking a case study.

Communications and Networks extends your knowledge of principles and practice in communications and computer network technologies and their deployment.

Additional computing modules may be available to students whose other Dual Honours subject allowed them to elect to take the relevant precursor computing modules in their first and second years; see the Single Honours Computer Science entry in this prospectus for a complete list, page 97.

Computing facilities

Please see the Computer Science entry in this prospectus for details, page 97.

Teaching and assessment

Please see the Computer Science entry in this prospectus for details, page 97.

Some more ideas...

Smart Systems and Neuroscience (or Biology)

Smart Systems are often inspired by nature: the terms 'natural computation' and 'biologically inspired computation' are often used in relation to computational intelligence. Advances in our understanding of the working of natural adaptive and intelligent systems such as evolution, the brain and nervous system, lead to and are increasingly informed by advances in our understanding of how to develop synthetic adaptive and intelligent agents and systems. In addition, computational intelligence techniques are increasingly being applied within bioinformatics and biomedical engineering. Graduates with the ability to work across and between these disciplines will be well equipped for research and development careers.

Points of pride

This course features a range of cutting-edge approaches to computational intelligence. Final year students can work under the supervision of a member of the School's Computational Intelligence and Cognitive Science research group, for example on a research-based neuroevolution or robotics projects.

Criminology

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 109

Study abroad: Yes

UCAS Single Honours programme

L611 Criminology

UCAS Dual Honours combinations

NM49 Accounting

MTX7 American Studies

FM79 Applied Environmental Science

CM8Y Applied Psychology

FM59 Astrophysics

CM19 Biology

MNX2 Business Management

FM19 Chemistry

GM49 Computer Science

GM4X Creative Computing

LM19 Economics

MXX3 Educational Studies

MQ93 English

MP93 Film Studies

MNX3 Finance

FM42 Forensic Science

LM79 Geography

MX1 History

MC91 Human Biology

LMR9 Human Geography

MG95 Information Systems

MN91 International Business

ML92 International Relations

M930 Law

MNC5 Marketing

PM39 Media, Communications and Culture

FMC9 Medicinal Chemistry

MWX3 Music

BM19 Neuroscience

MX5 Philosophy

FM89 Physical Geography

FM39 Physics

CM81 Psychology

GM79 Smart Systems

LMH9 Sociology

M211 **Criminology (Major).** Please indicate your choice of second subject (chosen from those listed here) in the 'further information' section of your UCAS form.

ML93 **Criminology with Social Sciences Foundation Year.** This four-year degree course is designed for students who wish to study Criminology but lack the necessary background qualifications. See page 275.



The course offers

The course offers applicants the opportunity to study Criminology at a University with a long tradition of teaching and research in the subject. Keele pioneered the teaching of Criminology at undergraduate level and our programme is one of the longest running, strongest and most successful in the country. Criminology at Keele is taught by a large group of active criminological researchers with international reputations specialising in areas such as policing, prisons, punishment and community safety, as well as criminological theory, research methods, comparative criminology and the history of crime and punishment.

As a result, Keele can offer a distinctive curriculum in Criminology where students are supported within a thriving academic and educational community. It is an integrated yet flexible degree programme taught by specialists in the field which offers:

- A comprehensive overview of key conceptual and substantive issues involved in the study of crime and justice
- The opportunity to study Criminology from a range of perspectives: social, historical, legal, political, economic and psychological
- In-depth exploration of particular topics of theoretical and practical interest at the forefront of criminological research
- Sound training in methods of criminological research
- Links with local criminal justice services providing professional and research contacts and a dedicated module designed to enable students to explore and prepare themselves for working in the criminal justice and related sectors

Criminology is a dynamic subject that draws on theories and research methods from across the social and human sciences. Studying Criminology within the flexible interdisciplinary culture of the Keele degree fosters these interdisciplinary links as well as providing specialist and responsive teaching within this rapidly evolving discipline.

Course content

The programme offers opportunities for students to engage with the key issues in the study of crime and criminal justice at all three levels of their degree studies. For example, these are just a few of the issues with which criminology is concerned and which are explored throughout the programme:

- The possible causes of criminal behaviour and effective methods of tackling these causes
- The impact of crime on its victims and on society in general
- The relationship between crime, victimisation, social change and divisions based on age, gender, sexuality, 'race' and ethnicity
- The ways in which definitions of crime and responses to it change over time and place
- The development and nature of social responses to crime such as policing, the criminal justice process and the penal system
- The usefulness of different approaches to criminological research and sources of information about crime and criminal victimisation
- The representation of crime and criminal justice in the media and popular culture and their possible impact on public attitudes to crime

Keele offers an integrated and flexible programme of study designed to equip students with the basic knowledge and skills needed to study Criminology in the first year, to develop knowledge and skills in the second year, and to apply what has been learned in the third year by exploring problems at the cutting edge of current criminological research.

The exciting combination of core and elective modules offered enables students to pursue individual interests in particular areas of criminology as well as providing an integrated employability skills programme with a focus on working in the criminal justice sector. In addition, the Keele Criminology programme with its social scientific tradition and philosophy provides students with opportunities to develop skills to enhance employability in a wide range of occupations and contexts.

Study Abroad

Students may also spend one semester of the second year studying Criminology at one of Keele's partner universities in Australia, Canada or the US.

Year 1

Core modules

Understanding Crime introduces the discipline of criminology, ways of measuring crime and victimisation and some important theoretical traditions in criminology. It also supports you in developing the abilities and skills needed to study the subject effectively.

Criminal Justice: Process, Policy and Practice introduces the institutions, actors and organisation of the criminal justice process and the main theoretical perspectives used in studying it.

Electives

- *Investigating Crime: Criminological Perspectives*
- *Murder*
- *Crime and Psychology*
- *Punishment: Beyond the Popular Imagination*

Modules may also be chosen from a range of electives from related disciplines, such as Law and Sociology.

Year 2

Core modules

Research Methods in Criminology develops understanding of the logic and skills of social sciences research as applied to the study of crime and criminal justice, and equips you with a critical appreciation of a range of strategies for research design, data collection and analysis.

Crime and Justice in a Global Context examines the challenges posed for criminology and criminal justice actors/institutions by the changing nature of crime and justice in the global era. It explores issues such as the global trade in drugs, war and terrorism, international justice and policing beyond national borders.

Electives

- *Policing and the Police*
- *Building Safer Communities*
- *Working for Justice*
- *Crime, Culture and Conflict 1780-1950*
- *Crime, Morality and the Media*

Year 3

In the third year, you will deepen your knowledge of selected criminological topics by studying in either one or two special option groups each semester. We offer an extensive and frequently updated range of options that reflect the expertise and active research interests of members of staff, and so the subjects covered vary from year to year.

Instead of taking four taught modules in the third year, you may choose to study two (one module in each semester), and to write a research dissertation. Dissertations may be library-based or involve 'hands-on' empirical research, such as interviewing criminal justice professionals or analysing media representations of crime. If you choose to do this you will work under the guidance of a supervisor throughout your third year.

Modules include:

- *The Politics and Cultures of the Death Penalty in the 21st Century*
- *State Crimes and Crimes against Humanity*
- *Power, Process and Victimisation*
- *Gender, History and Punishment 1486-1955*
- *Immigration, Communities and Crime*
- *Prisons and Imprisonment*
- *Popular Culture and Crime*
- *Risk and Criminal Justice*
- *Forensic Mental Health and Offending*
- *Crime, Crime Control and Democracy in Post-Apartheid South Africa*
- *Research Dissertation (two modules)*

Our portfolio of Year 3 modules is continually updated to reflect new areas of expertise amongst staff as well as new emerging areas of criminological research and criminal justice policy.

Criminology



Teaching and assessment

Students will take part in a range of learning activities based on a comprehensive programme of lectures, student-led seminars and tutorials. Lectures are designed for large groups of students whereas seminars and tutorials comprise of up to 14 students.

Independent learning is encouraged throughout the course but is particularly important in the third year when many will undertake a piece of independent research supervised by a member of staff. All students have access to a wide range of learning resources and to the University's virtual learning environment.

Assessment is continuous and involves a mix of examinations and in-course assessments. Apart from the traditional essay, these may include structured exercises, reviews of published work, reports on the criminal justice system at work, posters and presentations and, in the final year, a research dissertation. Detailed feedback is provided on all assessed work.

Skills and careers

Studying Criminology opens up a wide range of career possibilities across local and national government and the voluntary sector; in the police, probation and prison services; in social work and community care; in the rapidly expanding fields of crime reduction and community safety; and in occupations concerned with the regulation of, among other things, the environment, public health, financial services and the tax and benefits systems. Many Criminology graduates go on to further study at Masters level and beyond, leading to careers in research and in further and higher education. Easily transferable problem-solving, research and communication skills acquired by studying Criminology can also be put to good use in many other occupations across the public and private sectors. The programme encourages and offers opportunities for students to develop their understanding of and prepare for careers in criminal justice and other relevant occupations.

Point of pride

Experience and Excellence in Teaching: Keele was the first University to offer Criminology at undergraduate level 20 years ago, four of our staff received nominations for Teaching Excellence Awards in 2010/11 and the winner and one of the runners up of the University's Student of the Year Awards 2010/11 were Criminology finalists.

Some more ideas...

Criminology and Psychology

The typically more quantitative approaches to research favoured in Psychology are matched by strong qualitative traditions in Criminology. This combination makes for well-rounded, highly skilled and eminently marketable Dual Honours graduates with substantive knowledge across two disciplines of particular contemporary significance. Criminology uses psychological as well as sociological and legal approaches, and situates them within the very real context of everyday crime and disorder. The overlap is perhaps most apparent when examining the treatment of offenders, media representations of crime and criminals and the fear of crime.

The Criminology course offers an attractive suite of electives at Level I and Level II focusing on the links between Psychology and Criminology such as Crime and Psychology I & II. Students can also choose modules on aspects of the criminal justice system that offer career opportunities, for example Investigating Crime or Working for Justice.

Criminology and Law

Both subjects are taught from similar perspectives that emphasise their broader social and political contexts. Criminology draws on legally informed notions of social justice and uses criminal law definitions to introduce wider ranging discussions of social deviance. Both disciplines are interested in systems for regulating social behaviour and imposing sanctions for contraventions. Criminology offers Law students an opportunity to put into practice some of their core material in Law in understanding pressing contemporary concerns.

While both subjects are taught in a critical manner, Criminology can also be seen as offering a more sustained critique of conventional legal definitions which students often find refreshing.

Criminology and Sociology

Crime, deviance and social order are some of the most taxing issues our society currently faces. Sociology and Criminology complement each other well in enabling students to understand the broad issues revolving around social structure and social change, as well as the ways in which institutions, power systems, identity, culture and economics impact on crime and disorder. Sociology supports Criminology students by offering depth and background understanding. In many respects the history of Criminology is rooted in Sociology. As such, many of the ideas criminologists use are sociological terms. For this reason, Sociology can help Criminology students to better understand concepts, analytical techniques and social history. On the other hand, Criminology supports Sociology by offering a specific field for the application of sociological insights. Many students who study this combination find their degree useful for careers in probation, social work, socio-legal work and policing.

Criminology and Forensic Science

This combination provides complementary study in both the scientific and sociological understanding of crime, detection, justice and punishment. Criminology covers the inter-relation between law, crime and society in a wide range of contexts. Forensic Science focuses on the role of the scientific method in the detection of crime and in bringing criminals to justice.

By coupling the strong tradition in qualitative approaches favoured by Criminology with the rigorous, quantitative skills developed within Forensic Science, graduates from this degree combination gain an excellent understanding of the criminal justice system and have a very strong skills base on which to pursue a wide range of careers.

Criminological concerns also overlap with issues in International Relations.

See also: Criminology and Neuroscience, page 211.

Economics

Course: Dual Honours

Entry requirements: See page 283-292

Approximate intake in 2013: 90

Study abroad: Yes

UCAS Dual Honours combinations

CL8C	Applied Psychology
FL51	Astrophysics
CL71	Biochemistry
CL11	Biology
LN19	Business Management
LM19	Criminology
LQ13	English
LP13	Film Studies
LN13	Finance
FL41	Forensic Science
LLC7	Geography
FL61	Geology
LV11	History
LC1C	Human Biology
LLD7	Human Geography
LN16	Human Resource Management
LN11	International Business
LLC2	International Relations
LM11	Law
LN15	Marketing
GL11	Mathematics
LW13	Music
LWC3	Music Technology
BL11	Neuroscience
LV15	Philosophy
FL81	Physical Geography
FL31	Physics
LL12	Politics
CL81	Psychology
LL13	Sociology
LLC3	Economics with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Economics but lack the necessary background qualifications. See page 275.



The course offers

The programme has been designed to provide a sound base if following a career as a professional economist. However, at the same time, it builds bridges with other subjects, especially Finance, Geography, Business Management, Mathematics and Politics and, therefore, also provides excellent training for students wishing to prepare for a wider range of career opportunities.

Our teaching is motivated by the following aims, to:

- help students to explain a diverse range of real-world phenomena in terms of a small set of unifying core economic principles
- combine theoretical analysis with up-to-date factual knowledge about real-world policy issues
- develop students' ability to use professional software tools for the analysis of real economic data

There is an option to study abroad for a semester at a range of partners in the EU, the USA, Canada, Asia and Australia.

Point of pride

Each year we award the Fishman Bursery, in memory of Professor Les Fishman, Economics Professor at Keele between 1969 and 1988. The bursary goes to the best performing student from the local area.

Professional recognition

After completion of a BA Economics (Dual Honours) the Chartered Institute of Management Accountants (CIMA) has awarded the following exemptions:

- C3:** Fundamentals of Business Mathematics
C4: Fundamentals of Business Economics

Course content

Our programme has a sequential structure that starts from first principles and gradually builds up understanding of economic ideas and analytical tools. No prior knowledge of Economics is assumed.

Modern Economics uses a range of mathematical techniques to study real-world economic behaviour, and graduates with competence in such techniques are much sought after by employers. Our programme carefully develops this competence over the three years of study. In the first two years, study includes a systematic introduction into the tools of empirical data analysis. The third year then offers a wide range of optional modules that enable students to specialise in topics of their own personal interest.

Year 1

The following core modules are taken:

Households, Firms and Government introduces the basic concepts of supply, demand and price, the principles underlying household and firm decision-making and the effect of market intervention on these decisions.

Output, Inflation and Employment examines the determination of output at the national level and the role of policy in influencing aggregate output, inflation and employment.

Quantitative Methods develops basic mathematical and statistical methods, such as calculus, probability, hypothesis testing and univariate regression used extensively in Economics and Finance.

Modules can also be taken from a range of electives including:

- *Strategic Thinking*
- *Everyday Economics*
- *British and Global Economy*

Year 2

Builds upon work undertaken previously with a further three core modules:

Price Theory covers more advanced analysis of the consumer and the firm, examining the factors that underpin demand and supply in markets.

Introduction to Econometrics uses statistical methods to investigate selected economic and financial issues such as consumption functions, household labour supply and asset pricing.

Open Economy Macroeconomics examines the role and capability of government demand management policies in an open

economy. The module systematically develops an open economy model and examines the efficacy of monetary and fiscal policy for stabilising output and employment in the context of capital mobility and flexible exchange rates.

Modules can also be taken from a range of electives available at School level, including:

- *Contemporary Issues in Economics*

Year 3

The following two core modules are taken:

Market Imperfections and Market Failure introduces a variety of advanced topics including: imperfect competition, decision making under risk and uncertainty and the efficient provision of public goods. These issues are illustrated with examples including collusion in oligopolies, managerial incentives, auctions, tenders and procurement issues, bank lending.

Dynamic Macroeconomics explores the significance of macroeconomic dynamics and their implications for macroeconomic modelling and policy in the context of key macroeconomic policy problems such as business cycles and growth.

Modules can also be taken from a range of electives, including:

- *Labour Economics*
- *Economics of the European Union*
- *Game Theory*
- *The opportunity to take a structured, project-based independent study module using the tools needed to construct and interpret economic and business forecasts.*

Teaching and assessment

Teaching takes place in lectures, supported by tutorials, study groups and computer laboratory classes. Computer facilities are used extensively in Economics teaching, especially in quantitative methods, now part of the essential 'toolkit' of modern economics. Students acquire expertise with a wide range of statistical, economic and modern business software, and access to commercial databases, including Datastream, the main source of information for economic and financial data. A range of assessment methods is utilised across the programme comprising weekly or fortnightly exercises, mid-semester tests, projects, essay assignments and unseen two-hour examinations. The precise combination in each module will depend on the material covered.

Skills and careers

The programme develops a variety of transferable and subject-specific skills, all of which are highly relevant to typical career choices in this subject area. Tests and examinations assess students' ability to solve problems and address issues under a severe time constraint, essays develop abilities in written expression and argument, dissertations develop students' ability to study a single issue in depth, while seminars give students practice in making presentations and developing powers of oral expression and argument.

Graduates from our Dual Honours Economics programme leave Keele well prepared for further study or employment in economics and related areas. In 2010 55% of the graduating cohort went on to postgraduate or equivalent study (45% of the cohort into full-time education). The skills acquired at Keele also make graduates highly valued with employers. Economics graduates from Keele take up careers in the City, in the prestigious Government Economic Service, in commerce and industry, and in education

Some more ideas...

Economics and Finance

Economics and Finance share the same analytical framework. The notion of market equilibrium that is used extensively in Economics provides the foundation for the arbitrage ideas that underpin the standard approach to asset pricing used in Finance. The economic policies of governments studied in our macroeconomic modules are closely interrelated with the behaviour of the monetary and financial system. The analytical toolkit acquired from the quantitative methods modules is identical for economics and finance. Graduates with this combination are well placed to find employment with financial institutions, or in the financial sections of large enterprises.

See also: **Mathematics and Economics or Finance, page 187;** **Finance, page 133;** **Single Honours Business Economics, page 83;** **Single Honours Accounting and Finance, page 53.**

Educational Studies

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 50

Study abroad: Yes

UCAS Dual Honours combinations

CX8H	Applied Psychology
FX53	Astrophysics
CX73	Biochemistry
CX13	Biology
NX93	Business Management
MXX3	Criminology
QX33	English
XP33	Film Studies
NX33	Finance
FX43	Forensic Science
LX73	Geography
FX63	Geology
VX13	History
XC3C	Human Biology
LXR3	Human Geography
NX63	Human Resource Management
XN31	International Business
LXF3	International Relations
MX13	Law
NX53	Marketing
GX13	Mathematics
WX33	Music
WXH3	Music Technology
BX13	Neuroscience
VX53	Philosophy
FX83	Physical Geography
FX33	Physics
LX23	Politics
CX83	Psychology
LX33	Sociology
X390	Educational Studies (Major). Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
X3L3	Educational Studies with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Educational Studies but lack the necessary background qualifications. See page 275.



The course offers

- 'An exciting and imaginative degree programme, offering students a lively and diverse range of modules within an overall framework that is coherent and well conceived.' (External Examiner's Reports)
- Research-led teaching
- An interdisciplinary approach
- Coverage of key political, social and cultural issues related to education
- A combination of academic study with the development of research skills
- Two routes or strands: education for teaching and education as social policy
- The possibility of a place on the Keele PGCE secondary course (subject to specific entry requirements and satisfactory interview)

Educational Studies explores education from many different angles, including how it relates to the economy, how it has been shaped historically, how it affects people's life chances, how it helps form their identities, how those who work in education are organised and how learners learn.

The course is interdisciplinary and links the study of Education to other areas of life: pedagogy, history, childhood, management, social policy, culture and information and communication technology (ICT). In many respects it has a strongly contemporary focus.

Educational Studies combines the academic study of education with preparation for work placing a strong emphasis on the development of students' skills as independent researchers and collaborative colleagues.

The teaching team has a strong research record in topics such as education, culture, social policy, childhood, IT, management, special needs, inclusive education, 'race', gender, teacher professionalism, pedagogy, professional development and higher education, international and comparative education.

Students with a broad range of backgrounds are welcome; we aim to ensure that the course is broad and flexible enough to respond to their interests and needs.

Course content

Students taking Educational Studies as a Dual Honours subject will take two modules per semester. A core compulsory module and one from a range of elective modules. Core modules provide a foundation for the programme as a whole.

Through the choice of electives, students may wish to follow one of two strands through the programme:

- Education for teaching (for those interested in teaching as a career)
- Education as social policy (for those interested in the study of education as an academic subject in the context of a social sciences perspective)

All core modules, and some of the electives on offer, are relevant to both strands.

The programme is flexible enough to enable students to follow their interests, whether this is in secondary teaching or the study of childhood from either a teaching/early years focus or from a sociology or social policy perspective.

Year 1

Core modules

Understanding Learning focuses on established theories of learning and students' own learning processes in higher education to answer key questions: is learning a matter of conditioning? What is the relationship between language and learning? Why do some people learn easily and others struggle? What are the most effective learning strategies to adopt?

Education in Britain covers the period of compulsory state education in Britain (i.e. 1870–2009), from a historical and sociological perspective. The emphasis falls on contemporary educational issues, in school and higher education, and it also seeks to draw in part from your own educational experiences.

Electives

Childhood, Policy and Education explores a range of institutional and other discourses in which childhood is encoded including the media, literature, art and law, but with a particular focus on the role of the state in current constructions of childhood.

Back to the Future: Issues in the History of Schooling focuses on key moments in the development of schooling from the 1800s to 1944. Students are encouraged to draw on a range of media including film and literature to explore the issues.

Digital Technologies I (an IT-based course) encourages you to reflect on your own learning processes in the context of ICT.

Year 2

Autumn Semester core module

– *Education Matters*

Spring Semester core module

– *Research Strategies and Methods in Education*

You may then choose an elective either from Educational Studies or from another programme to study alongside these core modules.

Educational Studies electives include:

- *Too Poor to Learn: Poverty, Education and Social Policy*
- *Opportunity for All? Gendered Inequalities in Education*
- *Comparative Education*
- *Issues in Public Education*
- *Play, Power and Pedagogy*
- *Reflective Teaching*
- *Special Education*

Year 3

You will complete a dissertation on an educational topic of your choice, and choose one module each semester from a range of electives including:

- *'Race', Politics and Education*
- *Inclusive Education*
- *Higher Education: Policy and the Student Experience*
- *Sport, Education and the Body*
- *Education for Citizenship*
- *The Making of Professionals: Education, Health and Social Work*
- *Education, Work and Identity*

Teaching and assessment

Teaching consists of lectures, seminars, individual tutorials and workshops.

Much of the work students will be required to do is coursework, either in the form of essays or, on some modules, collaborative portfolios. In Years 2 and 3 there is a strong emphasis on individual research projects, assisted by tutor support. Students will be given plenty of opportunities for formative assessment and support for essay writing is embedded in the first year.

Skills and careers

Although the course does not lead directly to a teaching qualification, it will provide students with knowledge and skills appropriate to a range of professional careers and occupations, including public sector management, educational research, work in communications and the media, industrial and business training and teaching.

It may be possible for students to be interviewed for a place on the PGCE secondary course at Keele University on entry to the Educational Studies programme. Any offer of a place would be provisional and subject to specific requirements:

- Subject combination
- Degree classification
- Satisfactory interview
- Satisfactory reference from the Director of Undergraduate Studies
- Maintenance of eligibility by remaining on the Educational Studies programme
- Other conditions laid down by the Secretary of State for Education

Educational Studies



Some more ideas...

Educational Studies works well with any of the subjects listed earlier. Two of the most popular combinations are English and Music. Others include Psychology, Sociology, Geography, Biology or Criminology.

Educational Studies and English

A chance to develop analytical, critical and communication skills and make the most of research techniques such as interviews and textual analysis. It is good preparation for any career requiring a broad range of analytical skills and an excellent combination for those wishing to teach English at either primary or secondary level.

Educational Studies and Music

You can develop a broad range of communication skills including presentation and performance. There are opportunities to design and develop a musical package as an educational or learning resource. Again, an excellent combination for those hoping to teach music. As with English, it will also appeal to students interested in culture.

Point of pride

Keele pioneered the development of Educational Studies and this particular programme was one of the first of its kind nationally, established in 1994. The course continues to be highly rated by examiners and students. It came 'top' nationally in the Student Satisfaction survey in 2007 and fourth, in 2011, for overall levels of student satisfaction.



English

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 100

Study abroad: Yes

UCAS Single Honours programme

Q300 English

UCAS Dual Honours combinations

NG43 Accounting

QT37 American Studies

FG73 Applied Environmental Science

CG8H Applied Psychology

FG53 Astrophysics

CQ13 Biology

NQ93 Business Management

FG13 Chemistry

GQ43 Computer Science

GQ4H Creative Computing

MQ93 Criminology

LQ13 Economics

QX33 Educational Studies

QP33 Film Studies

NQ33 Finance

FG43 Forensic Science

LQR3 Geography

QV31 History

QC3C Human Biology

QL37 Human Geography

QG35 Information Systems

QN31 International Business

LQF3 International Relations

MQ13 Law

QN35 Marketing

PQ33 Media, Communications and Culture

FGC3 Medicinal Chemistry

QW33 Music

BQ13 Neuroscience

QV35 Philosophy

FG83 Physical Geography

FG33 Physics

QL32 Politics

CQ83 Psychology

GQ73 Smart Systems

LQ33 Sociology

Q390 **English (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.

Q3VA **English with Humanities Foundation Year.** This four-year degree course is designed for students who wish to study English but lack the necessary background qualifications. See page 271.



The course offers

- A good general grounding in literature and literary criticism
- The opportunity to study English both as a critical and as a creative discipline
- The opportunity to include pathways in creative writing and film studies
- A wide choice of exchange programmes in Europe, Australia, Canada, South Africa, Asia and the US

English can be combined with a wide variety of other programmes in the humanities, sciences and social sciences as part of the Keele Dual Honours degree system. The English course provides a grounding in the key periods and genres of English literature and a thorough training in critical methods. It allows students to concentrate on areas that appeal to them, allowing them to explore the full breadth of the subject. We teach literature from the Renaissance period to the present day, as well as film studies and creative writing. The staff are active in research and publish on a wide range of topics in English literature, film and cultural theory.

There are regular programmes of visiting academic speakers, novelists and poets, open to all students. Recent visitors have included Gwendoline Riley, Paul Muldoon, Jackie Kay, Roger McGough and Carol Ann Duffy.

Please note that we have a new Single Honours course in English with Creative Writing (Q3W8)

Course content

The core modules in both semesters of the first year are aimed at developing analytical and critical skills, and broadening both students' experience of literature and modern approaches to thinking and writing about it. Alongside this, students may choose a further elective module in English or American literature, creative writing or film. In the second year, students will go on to choose from a series of core and elective modules.

In the final year, students can choose from a range of more specialised options, and this may also involve writing a dissertation or working on a creative writing portfolio. Such projects offer exciting opportunities for independent research and writing, while being supported by a tutor.

Year 1

You will take the following core module and may choose one elective:

Autumn Semester core module

Reading Literature introduces various aspects of literary study, enabling you to get to grips with a range of primary texts (including films) and to develop a variety of critical skills.

Electives

Telling Tales provides an introduction to narrative fiction (short stories, novels and film) using examples from the 18th to the 21st centuries.

Poetry through Practice looks at the major poetic modes (e.g. the love lyric and the elegy), explores how different poets employed these modes and encourages you to employ them in your own writing.

Reading Film introduces the essential elements of film narrative and engages you in thinking critically about the creative and technical choices made by filmmakers.

Spring Semester core module

Becoming a Critic introduces the critical methods and skills involved in the study of narrative fiction. The module is characterised by both historical breadth and detailed critical engagement, and focuses particularly on the concept of colonial and postcolonial literature.

Electives

Playing Parts aims to introduce the critical study and evaluation of drama and poetry through close attention to issues of

performance, voice and style. It focuses on the development of different styles of poetry and drama between the 17th century and the present day.

Fiction through Practice is designed to establish a bridge between the composition and criticism of prose fiction. It introduces different literary modes and encourages you to develop these in your own writing.

Approaches to Film examines the development of critical thinking on the cinema and invites you to debate, question and apply ideas on film authorship, genre and history.

Year 2

You will take two core modules (one each semester), and will also have the choice of taking two elective modules (one each semester) from among the following areas:

- *Victorian Literature*
- *The 17th Century*
- *Renaissance*
- *Romanticisms*
- *Creative Writing*
- *Film*
- *The Novel*
- *Postwar Poetry and Fiction*

Year 3

You can opt to take two special subject modules from the following selection (one in each semester) or one extended special subject culminating in a dissertation.

Some of the special subject options currently on offer are:

- *Modern Poetry*
- *Shakespeare on Film*
- *Mental Fight*
- *The Two Cultures: Literature and Science*
- *The Canadian Metropolis*
- *Literature, Culture, and Politics in the 1980s*
- *Joyce's Ulysses*
- *Modern Poetry*
- *Shakespeare Problem Plays and Late Plays*
- *Postcolonial Fictions*
- *Canadian Metropolis*
- *Dickens, Collins and Detection*
- *Decadence, Eccentricity and Nonsense: Journeys to the Edge of Victorian Literature*

Teaching and assessment

Teaching is conducted by means of lectures, tutorials, seminars, workshops and one-to-one consultations.

A variety of assessment methods are used: essays, seminar participation, reports, book reviews, assessed oral presentations (group and individual), examinations, webquizzes and so on.

Skills and careers

As a result of studying this degree, students will acquire a range of subject-specific and generic, transferable skills. In addition to an in-depth knowledge of English literature, students will become skilled in textual analysis, interpretation and evaluation, and will also have acquired advanced communication and writing skills, the ability to research and interpret a variety of sources of information and time management skills. English enjoys close, collaborative links with the Careers Service. English graduates have achieved high levels of success in entering challenging and rewarding careers, in spheres such as publishing, banking, journalism, teaching, retail management and the media.

Some more ideas...

See also: [English and Educational Studies, page 117](#); [English and History, page 159](#); [English and Philosophy, page 231](#); [English and American Literatures, page 123](#).

Point of pride

English at Keele offers students a unique opportunity to study English and American literature, Film, and Creative Writing.

English and American Literatures

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 40

Study abroad: Yes

UCAS Single Honours programme

TQ73 English and American Literatures

Q3V0 English and American Literatures with Humanities Foundation Year. This four-year degree course is designed for students who wish to study English and American Literatures but lack the necessary background qualifications. See page 271.



The course offers

- The opportunity to take modules in creative writing and film
- A wide choice of exchange programmes in Europe, Canada and the US
- The opportunity for specialised study of literature balanced by breadth
- A unique opportunity to study two major national literary traditions and cultures

English and American Literatures is a Single Honours degree course that allows students to specialise in English language literary studies while acquiring knowledge of two distinctive, internally complex national cultures in the modern period.

Students will study in two parts of the School of Humanities that share high reputations for research-based teaching, a distinctive and friendly ethos and high rates of student approval.

Point of pride

English and American Literatures has achieved among the best results for any cohort at Keele – in some years more than a quarter of our students achieved first class degrees.

Course content

In the first year, students will be introduced to transatlantic literary relations and the separate literary traditions of Britain and America in four core modules, which will develop and enhance powers of literary analysis and general study skills. In the second year, students develop further understanding of each national culture, and there are opportunities to study abroad. In the third year, students will be able to choose from a wide range of more specialised modules offered by the two subjects and will have the option of undertaking an independent study project in creative writing and/or dissertations in English and in American Literature across both semesters. Dissertation work provides exciting opportunities for independent research while being supported by an expert supervisor.

Year 1

Autumn Semester core modules

Reading Literature introduces various aspects of literary study, enabling students to get to grips with a range of primary texts (including films) and also to develop a variety of skills.

Starting Out: An Introduction to American Literature surveys a wide variety of topics and periods in American cultural history, and equips you with a range of literary and analytical skills.

Spring Semester core modules

Transatlantic Gothic: Studies in 19th-century English and American Literatures explores the development of one genre in two different national traditions and introduces some theoretical concepts.

Becoming a Critic extends the work you did on Reading Literature in the first semester, developing knowledge of different literary modes and historical contexts, as well as an understanding of critical methods and skills.

Electives

- *The Unreliable Truth: Studies in 20th-century English and American Literatures*
- *Telling Tales: An Introduction to Narrative Fiction*
- *New York, New York (includes film)*
- *Playing Parts: Studying Drama and Poetry*
- *The American Past: Explorations in US History*
- *American Politics*
- *Reading Film*
- *Approaches to Film*
- *A Beginner's Guide to Contemporary America*
- *Poetry through Practice*
- *Fiction through Practice*

Year 2

For English literature you will take two core modules from among the following (these modules are also available as electives):

- *Romanticisms*
- *Victorian Performances*
- *Post-war British Fiction and Poetry*
- *The Age of Shakespeare and Donne*

Additional elective modules include:

- *Creative Writing: Poetry and Prose*
- *French Cinema*
- *The Drawn Sword: Literature and the English Civil War*
- *20th-century Novels into Films*
- *Satire*
- *Aspects of the Novel 1730-1940*
- *Lyrics and the Popular Song*

For American literature you will take two core modules from the following, which are additionally available as electives:

- *The Romance of Fiction: History and Society in 19th-century American Literature*
- *From Modernity to Counter-culture: American Literature and Social Criticism in the 20th Century*
- *The Detective and the American City*
- *Burning Crosses: Religion and American Culture*
- *Hooray for Hollywood: Approaches to American Film*
- *Alfred Hitchcock's America*

Or you can study either for one or two semesters as an exchange student with one of our partners abroad.

Year 3

For English literature you can opt to take up to four special subject modules from the following selection (two in each semester):

- *Postmodernism: Fiction, Film and Theory*
- *The Two Cultures of the Arts and Sciences*
- *Postcolonial and World Literature in English*
- *Romantic Voices*
- *Sex, Scandal and Society: 18th-century Writing*
- *The Canadian Metropolis*
- *Milton*
- *Dreams and Visions*
- *Miners, Monetarism and Movements: Literature, Culture and Politics in the 1980s*
- *The Writer as Psychologist: The Great Russian Realists*
- *Shakespearean Stages: Making and Re-making the Plays of Shakespeare and his Contemporaries*
- *Shakespeare on Film: Adaptation and Appropriation*

You can also take one of two Independent Study Projects, which are taught in both semesters and counts as two modules:

- *Creative Writing Portfolio*
- *Dissertation in English*

For American literature in the Autumn Semester you can take up to four of the following modules (two in each semester):

- *Film Noir: The Dark Side of America*
- *Writing Slavery*
- *High Culture: Drink, Drugs and the American Dream*
- *Contemporary American Fiction*
- *Silence, Strength and Sentiment: Gender and Sexuality in 19th-century American Writing*
- *Words and Pictures: the Contemporary American Graphic Novel*

You also have an opportunity to write a dissertation on an American or comparative literary topic.

Teaching and assessment

Teaching is conducted by means of lectures, tutorials, seminars, workshops and one-to-one consultations. A variety of assessment methods will be encountered: essays, seminar participation, reports, book reviews, assessed oral presentations (group and individual), examinations and Blackboard quizzes.

Skills and careers

As a result of studying this degree, students will acquire a range of subject-specific and generic, transferable skills. In addition to a comprehensive knowledge of English and American literary cultures of the modern period, students will be skilled in textual analysis, interpretation and evaluation, and will also have acquired advanced communication and writing skills, the ability to research and interpret a variety of sources of information and time management skills. Both subject areas enjoy close, collaborative links with the Careers Service. Graduates have achieved high levels of success in entering challenging and rewarding careers, in spheres such as publishing, journalism, teaching, retail management and the media.

Some more ideas...

See also: **Single Honours English, page 121; American Studies, page 57.**

Environment and Sustainability

Course: Single Honours

Entry requirements: See page 283-292

Approximate intake in 2013: 25

Study abroad: Yes

UCAS Single Honours programmes

FD84 Environment and Sustainability

F750 **Environment and Sustainability with Science Foundation Year.**

This four-year degree course is designed for students who wish to study Environment and Sustainability but lack the necessary background qualifications. See page 273.



The course offers

- An exciting innovative and interdisciplinary approach to Environment and Sustainability issues through the disciplines of geosciences, life sciences, politics and international relations, management, sociology, human and physical geography, and health
- An integrated programme of fieldwork opportunities allowing the development of practical and investigative skills and a 'real-world' appreciation of environmental problems
- First-hand training and experience in a wide range of specialist laboratory, analytical, computing, presentation, writing and research skills relevant to a broad range of environment-related careers, from non-governmental organisations and charities to environmental management and regulation
- Access to modern, well-equipped lecture and laboratory-based teaching and research facilities in a recently refurbished building in the centre of campus and the new 'Sustainability Hub' building which incorporates a range of innovative sustainable technologies
- Friendly and approachable staff, with leading reputations in their fields and a strong commitment to dynamic and supportive high-quality teaching

Course content

The study of environmental problems and how best to address these is a rapidly growing academic field as societies around the world face increasing environmental threats from climate change, loss of biodiversity, depletion of resources and pollution. In order to tackle contemporary environmental problems effectively, it is essential to have people who are conversant with both the scientific aspects and the human causes and costs of these complex problems.

The Environment and Sustainability degree at Keele offers an exciting opportunity to provide future graduates with the necessary skills and experience to cross the traditional science/social sciences divide, enabling them to work in a wide range of sectors and environment-related careers. Graduates will develop a broad and deep understanding of different global environmental problems and be conversant with strategies for moving towards sustainability in many different contexts.

Keele University has an international reputation for its research and teaching on environmental issues. The Environment and Sustainability degree, one of the first of its kind in the UK, is taught by a team of environmental specialists working in the fields of environmental science, geoscience, life science, chemical science, environmental technology, politics and international relations, sociology, management and health. It therefore provides a fully interdisciplinary degree with scope for specialisation in emerging and innovative fields such as environmental technology, environmental citizenship and sustainable urban regeneration.

Year 1

The first year is a broad-based introductory programme that provides a platform from which knowledge, understanding and skills are developed. Alongside core modules, students have the opportunity to choose additional option modules to suit their particular areas of interests. During the first year, students will gain an understanding of different environmental problems and sustainability issues through both the natural and social science perspectives. In addition, students will develop skills in the practical application of this understanding within different contexts, including how these issues are tackled within different business environments.

Core level-1 modules include:

- *Introduction to Environment and Sustainability*
- *People and the Environment*
- *Ecology and Environment*
- *Introductory Geology for the Environmental Sciences*
- *Greening Business: Employability and Sustainability*
- *The Politics of Sustainability*

Year 2

During the second year, students will gain a more in-depth understanding of specific environmental and sustainability disciplines, and will look in more detail at issues such as corporate social responsibility, the links between health and the environment, the politics and international relations of the environment and the scientific study of human impacts on the environment. Students will also have the opportunity to apply their learning to the professional environment and find out first-hand about the type of work they might do after graduation through carrying out a work placement as part of a core work-based learning module. In addition, students will continue to develop practical-based research skills to help prepare them for their third year independent research project. The second year also includes a week-long UK-based residential field course which provides students with an exciting opportunity to study environment and sustainability issues in the 'real world'. In the second year, all students also have an opportunity to study abroad for one semester at one of our partner universities.

Year 3

The third year allows students to specialise further in their particular areas of interest, or retain a broad coverage of environmental and sustainability issues. Students undertake an independent research dissertation tailored to their individual research interests, a group-based research project on a topical area of environment and sustainability research such as the sustainability of the Olympic games, and an interdisciplinary investigation on aspects of different environmental and renewable technologies. In addition, students have a broad range of taught modules to choose from, spanning topics such as natural hazards and water resources, citizenship and the environment and sustainable cities.

Fieldwork and opportunities to study abroad

Field courses provide students with 'real world' and 'hands-on' experience of a range of topical environmental problems and sustainability issues, and an opportunity to meet professionals working in the environmental and sustainability sectors. They also enable students to continue to develop the practical and investigative skills necessary for a broad range of environment-related careers. Our current field courses include day trips within the local area, a residential trip to the Centre for Alternative Technology in Mid-Wales and a week-long UK-based residential field trip to explore, among other things, sustainability issues of land management, resource use and energy generation, and sustainability issues among rural communities. Students have the option of undertaking an alternative overseas residential field course to the European Alps to learn more about environmental management in a difficult environmental context. There are also exciting opportunities for studying abroad, both through exchange programmes with universities in different parts of the world, including Australia, South Africa, Norway, Sweden and the US and Canada, and through carrying out research abroad as part of the third year dissertation.

Teaching and assessment

The Environment and Sustainability degree programme is delivered by a team of dedicated environmental and sustainability specialists with leading reputations in their fields and a strong commitment to dynamic and supportive high-quality teaching.

Teaching throughout the course combines traditional lecture-based teaching, small group workshops, seminars and tutorials, and fieldwork and laboratory classes for the development of practical skills. Assessments include traditional examinations, essays and technical reports, alongside more innovative types of assessment, such as oral and poster presentations, reflective portfolios and group projects, designed to enable students to develop and gain confidence in a wide range of employability skills. The course is designed to ensure that students experience a broad range of different teaching and assessment styles and are able to develop and demonstrate a varied portfolio of transferable skills applicable to a range of future careers.

Environment and Sustainability



Skills and careers

All organisations, from private business to local government, increasingly need to engage with environment and sustainability issues, hence this is one of the fastest growing areas of employment opportunities. A degree in Environment and Sustainability will prepare graduates for a broad range of environment and non-environment-related careers, including careers in non-governmental organisations, charities, local and regional government, environmental management and environmental regulatory bodies and industry.

Throughout the course, students will have many opportunities to work and engage with environmental professionals, through lectures and seminars given by external speakers, through their third year project where students have the opportunity of working directly with environmental organisations, through engaging with environmental professionals during their field courses and through undertaking an environment and sustainability work placement as part of their course.

Point of pride

In 2011/12 four Environment and Sustainability students are converting a bungalow on the University campus into a 'Sustainable Student House'. The students want to 'live what they are learning' and to help other students to learn how to live more sustainably. We hope to make this opportunity available to future environment and sustainability students.



Environmental Studies

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 25

Study abroad: Yes

The School of Politics, International Relations and Philosophy (SPIRE) will be offering an exciting NEW interdisciplinary undergraduate dual honours degree in Environmental Studies, subject to approval by SENATE.

For more information please see our website:
www.keele.ac.uk/ugcourses/

SPIRE has an international reputation for its research and teaching on environmental issues at undergraduate and postgraduate levels. You will be taught by one of the largest groups of active environmental researchers in any British university. Our Environmental Studies course will enable you to develop systematic, social scientific understanding of the complex nature of environmental problems and the various solutions embraced by governments, businesses, civil society organisations and citizens. You will be introduced to a range of theoretical perspectives and practical techniques for environmental analysis, in addition to learning how these have informed different types of environmental interventions at the global, international, national and local levels.



The course offers

- **The opportunity to study Environmental Studies with a complementary subject and a wide range of options in the second and third year**
- **Special strengths in green political theory and environmental ethics, environmental movements and environmental policy-making at local, national, EU and UN levels**
- **A vibrant and innovative community of learning with a lively and friendly staff within the multidisciplinary School of Politics, International Relations and Philosophy**
- **A learning experience underpinned by the latest academic thinking and research led by distinguished scholars**
- **One-to-one supervision of independent research towards a final year dissertation**
- **The opportunity to study abroad in the second year to benefit from another culture and a different educational experience**
- **An exciting range of co-curricular pursuits including the Keele Environment Group and the Keele Model United Nations Society**

The programme will prepare graduates for postgraduate study in the environment-related fields as well as for further study towards careers in such fields as environmental policy and management, education, journalism, law, diplomacy, and NGO/development work. Key employability skills include critical thinking and interpretation, interdisciplinary environmental research, comparative analysis, policy analysis, team work, report writing, and effective use of ICT.

Further details are available from our Programme Director, Dr Sherilyn MacGregor: s.macgregor@pol.keele.ac.uk

Please also visit SPIRE's website at: www.keele.ac.uk/spire

Point of pride

Environmental Studies is part of SPIRE, which is the largest and most unique multi-disciplinary school of its kind in the UK.

Course content

The course is designed to build and develop knowledge of the links between social, political and environmental issues progressively. The first year provides a foundation for more flexible choices in the second year and considerable specialisation in the third year. One of the benefits of being in SPIRE is the range of modules from Politics, International Relations and Philosophy also available to Dual Honours Environmental Studies students.

Year 1

Most students have not studied environmental issues from a social science perspective before, and even those who have will not have covered it with the same breadth. In the first year of the course you are introduced to the basic concepts through two core modules:

- *The politics of sustainability*
- *Environmental policy*

Elective modules:

You have the choice of a wide range of elective modules offered in SPIRE and other Schools, including:

- *Why politics matters*
- *Justice, authority and power*
- *Introduction to global politics*
- *Greening business (School of Physical and Geographical Sciences)*
- *Global warming or a new ice age? (School of Physical and Geographical Sciences)*
- *People and the environment (School of Physical and Geographical Sciences)*

Year 2

The objective is to build on first year work by deepening your knowledge about particular aspects of Environmental Politics and Policy in two core modules:

- *Environmental politics and policy*
- *International relations of the environment*

Again, you can choose from a number of elective modules, including:

- *Environmental Ethics*
- *Global political economy*
- *Why policy changes*
- *Cultures of consumption (School of Sociology and Criminology)*
- *Creating awareness campaigns (School of Humanities)*
- *Human impacts on the environment: scientific perspectives (School of Physical and Geographical Sciences)*

Year 3

Special subjects are taught exclusively through seminars and, because they relate to their tutors' research interests, they provide a chance to engage with the cutting-edge of political research. You will take at least two approved electives in Global Environmental Studies. The range of special subjects available varies from year to year, but the following is an indicative list:

- *Citizenship and the environment*
- *Gender, justice and environment*
- *Environmental politics in the USA*
- *The politics of radical protest*
- *The northern dimension: resources, environment and security in the Arctic*
- *Environment and sustainability case study*
- *The political economy of sustainable development*
- *The global south*
- *Urban and regional governance in the UK*
- *Cities, people and sustainability (School of Physical and Geographical Sciences)*
- *Ecopsychology (School of Psychology)*
- *Risk and society (School of Sociology and Criminology)*
- *Consumer culture from cradle to grave (School of Sociology and Criminology)*

Teaching and assessment

Most modules are taught through a combination of lectures and seminars. Lectures are designed to move beyond the basic texts and to encourage critical assessment of conflicting views and theories. In seminars, small groups of students take part in discussions and debates facilitated by a tutor. The School guarantees all first year students an hour per week of small-group core modules. Our teaching focuses on developing students' potential for independent thought and intellectual creativity. The use of a range of information and communication technologies is integrated into the programme, as is the development of written and oral communication skills.

Some modules are assessed through a combination of coursework and examination, some are assessed only on written coursework, while in other modules oral presentations and other types of seminar contributions are formally assessed. Our staff members have wide-ranging and cutting-edge research interests, which means academic research informs and ignites our teaching.

You will be encouraged to play an active role in the learning process, developing your own interests and ideas and acquiring skills that are transferable to a wide range of professions.

Student life

The School is committed to building a diverse and dynamic community to ensure that students explore their interests, learn from each others' experiences, and discover new academic and co-curricular activities. We pride ourselves on our friendly and informal approach. Students are represented on all the major SPIRE academic committees. Staff members take pride in being responsive to student feedback through our Staff-Student Liaison Committee and the annual student evaluation of all modules.

There are also many curricula activities at Keele that offer opportunities for students to participate in environmental action and debate, such as the Keele Environment Group; Keele Politics Society, Keele Philosophy Society, and the Keele Model United Nations Society. Keele has a thriving community of scholars working on sustainability issues with a dedicated home in the Keele University Hub for Sustainability.

Skills and careers

In the wake of growing awareness of environmental problems like climate change, the need to develop environmentally sustainable alternatives to our current way of life is being recognised in both private and public sectors. Many agree that in order to develop alternatives and policies that will work, there is a need for greater understanding of the political dimensions of the environmental crisis.

The central purpose of the rapidly growing field of Environmental Studies is to critically evaluate the underlying causes of environmental problems and the consequences of environmental policies for society, the economy and the natural environment. This new Dual Honours programme is one of the few in the UK that offers a social science-based education in environmental issues specialising in their political and policy dimensions.

Film Studies

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 30

Study abroad: Yes

UCAS Dual Honours combinations

NP43	Accounting
TP73	American Studies
FP73	Applied Environmental Science
CP73	Biochemistry
CP13	Biology
NP23	Business Management
FP13	Chemistry
GP43	Computer Science
GP4H	Creative Computing
MP93	Criminology
LP13	Economics
XP33	Educational Studies
QP33	English
PF3P	Geology
PV3C	History
PB3C	Human Biology
PN3P	Human Resource Management
PG35	Information Systems
PN3C	International Business
PN3M	Marketing
PG3C	Mathematics
PP39	Media, Communications and Culture
PF31	Medicinal Chemistry
PW3H	Music
PJ3X	Music Technology
PB3D	Neuroscience
PV3M	Philosophy
PL3F	Politics
PG37	Smart Systems
PL3H	Sociology

P3VO Film Studies with Humanities Foundation Year. This four-year degree course is designed for students who wish to study Film Studies but lack the necessary background qualifications. See page 271.

Point of pride

Students on this course have the fantastic opportunity of attending and participating in a film summer school at Dongguk University, in Seoul, South Korea!



The course offers

- The opportunity to study a variety of filmic texts and topics including national cinema, mainstream and marginal film, the significance of the film star, expressions of gender and sexualities on screen
- An emphasis on analytical skills valuable in the contemporary employment sector
- Critical analysis of the ways in which Film Studies theories overlap with wider literary, legal, sociological and philosophical theories
- The opportunity to study abroad at a variety of international partner institutions
- An exciting combination of subjects, teaching styles and student participation carried out in a friendly learning environment

Our Film Studies course is open to both students with and without prior Film Studies experience. In short, we welcome those with enthusiasm for filmic knowledge and an enquiring mind (please see page 283 for academic entry requirements). It is an interdisciplinary course combining the specialist skills and expertise of staff from a range of subjects including English, Media, Communications and Culture, American Studies, Visual Arts, Sociology and Music, coordinated and administrated by the School of Humanities.

Film Studies is a broad and challenging discipline involving the rigorous and critical study of films from around the world. It is an exciting and relatively new academic discipline that allows students to develop skills in critical argument, and involves imaginative engagement with films from the past and present and from a variety of different global cultures. Recognising that film has become one of the 20th and 21st centuries' most preeminent and influential forms of both art and mass entertainment, the course allows students to investigate the possibilities and limitations of film language and its influence on how we understand our own (and others') history, as well as our various forms of identity (individual, national, sexual, racial).

All modules offered will be taught by a team of staff who are research active and experts in their fields, with a commitment to lively and innovative teaching methods.

Students will explore the ways in which our familiarity with and understanding of film has become central to the way in which we understand the world. Students will investigate how meaning is created in cinema, who the author of a film is, how films are categorised in relation to each other, how the meanings of films are shaped by the historical period and national cultures that produced them and what ideas and ideologies about 'race' and gender films include and exclude. Students will also have the opportunity to take a practical module in digital video enabling them to combine their theoretical knowledge with practical skills.

Course content

Students will take a series of modules, some of which are compulsory, some of which can be chosen from a list of available options. In the first year students will take two compulsory core modules that introduce the core theoretical aspects of the programme. These provide the necessary skills to move into the second year. In addition to the core modules students have the opportunity to select up to a further four filmic modules.

As students work their way through the degree programme they will begin to discover the specific areas of study that they want to pursue most dominantly. As such, they are able to specialise in particular areas of film according to personal interests, career aspirations and strengths. The study of national cinemas, in particular, represents a strong and wide-ranging strand of the programme with options in German, Russian, British, French, Asian and North American cinemas.

Students will also have the opportunity, if they wish, to study abroad for one semester in the second year. Under this scheme students can study in universities in Europe, Australia, Canada or the US.

Year 1

These are not exhaustive descriptions, but give some idea of the range of modules available.

Autumn Semester core module

Reading Film, with an emphasis on variety of film practice, aims to introduce essential elements of film language, narrative and analysis in order to engage you in thinking critically about the choices made by filmmakers in constructing the look and sound of their films. This course lays the foundation for later study. Texts currently studied include *Citizen Kane* (Welles, 1941) and *Dead Man's Shoes* (Meadows, 2004).

Optional modules include:

- *Germany Through the Lens*
- *Digital Video*
- *Popular British Cinema: From the 1990s to the present day*

Spring Semester core module

Approaches to Film focuses more specifically on ways of categorising film via an investigation of film history, film politics and film genre. Texts to be studied include *Modern Times* (Chaplin, 1936), *Double Indemnity* (Wilder, 1944) and *Breathless* (À Bout de Souffle) (Godard, 1960).

Optional modules include:

- *Introduction to European Cinema*
- *Understanding Culture*

Year 2

Autumn Semester core module

Gender and the Cinematic Gaze explores the significance of gendered representation in film, focusing on theories of gendered spectatorship, voyeurism and the dis/pleasure of looking. You will be introduced to a number of significant theorists such as Laura Mulvey, Judith Butler and Sue Thornham in order to gain an understanding of gender as a cultural and social construction (differentiated from 'sex') and influenced by political movements such as feminism. Texts to be studied include *Rear Window* (Hitchcock, 1954), *Beauty and the Beast* (Trousdale and Wise, 1991), *Fight Club* (Fincher, 1999) and *Caramel* (Labaki, 2007).

Optional modules include:

- *French Cinema*
- *Politics and Cinema*
- *German Cinema*
- *Teenage Dreams: Youth Subculture in Fiction, Film and Theory*
- *Hooray for Hollywood? Approaches to American Film*

Spring Semester core module

Film Genre, Narrative and the Star evaluates the significance of generic categorisation, narrative order and the position of the Hollywood star in association with filmic constructions of identity and pleasure. Through theoretical and illustrative lectures and contextualised screenings, this module will allow you to explore the ways in which certain genres (documentary, horror and the blockbuster) operate in line with audience expectations, as well as asking pertinent questions such as: what is the relationship between performance and stardom and moreover, why are we, as filmic spectators, so interested in film stars? Texts to be studied could include *Harlan County USA* (Kopple, 1976), *Scary Movie* (Wayans, 2000) and *Titanic* (Cameron, 1997).

Optional modules include:

- *Horror Cinema*
- *Twentieth-century Novels into Films*
- *Unheard Melodies? Music in the Narrative Film*
- *Alfred Hitchcock's America*

Year 3

Modules studied in the third year are more specialised and vary from year to year. You will have developed intimate knowledge of filmic auteurs, national cinema and historical periods and can base your study choices on your own strengths and interests. Current choices include:

- *Shakespeare on Film*
- *British Society through the Eyes of British Film: 1960s to the Present*
- *Postmodernism: Fiction, Film and Theory*
- *Screening Sexualities: Spectatorship, Spectacle and Specificity*
- *Dissertation in Film Studies*
- *Asian Cinemas*
- *Film Noir*

Teaching and assessment

This course is concerned primarily with the theoretical dimensions of Film Studies. As well as the familiar lecture, screening and seminar format, there is also a strong emphasis on critical analysis and peer engagement both in-class and via the Keele Learning Environment. Methods of assessment are varied and will include individual essays, group presentations, learning environment peer review projects and examinations.

Skills and careers

By graduation, students will have acquired skills of analysis, organisation and written expression and will have experience of both individual and team working. Students may choose to enter into a career in film, in a media-related field or go on to further study. Whatever the preference, students will have a broad range of career opportunities and an excellent academic background to support their desired career choice.

Some more ideas...

Due to the interdisciplinary nature of Film Studies, the programme combines well with many other academic disciplines, in particular English, Media, Communications and Culture, American Studies, Sociology and History. The combination of disciplines does not only apply to humanities and social sciences; students may also enjoy the combination of Film Studies with other disciplines such as Business Management. Film Studies is offered in combination with a wide range of other Principal courses.

Finance

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 90

Study abroad: Yes

UCAS Dual Honours combinations

NT37	American Studies
FNX3	Applied Environmental Science
CN73	Biochemistry
CN13	Biology
NN39	Business Management
FNC3	Chemistry
GN43	Computer Science
GN4H	Creative Computing
MNX3	Criminology
LN13	Economics
NX33	Educational Studies
NG33	English
FN63	Geology
NV31	History
NC3C	Human Biology
NN36	Human Resource Management
NG34	Information Systems
NN31	International Business
NN35	Marketing
GN13	Mathematics
PN33	Media, Communications and Culture
FN13	Medicinal Chemistry
NW33	Music
NWH3	Music Technology
BN13	Neuroscience
NV35	Philosophy
LN23	Politics
GN73	Smart Systems
LN33	Sociology
N3L3	Finance with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Finance but lack the necessary background qualifications. See page 275.



The course offers

- A rigorous training in the workings of financial markets
- Opportunities for careers in the financial sector
- Extensive use of IT
- Possibility of combinations with closely related subjects
- A semester spent at a University in North America, Asia, or another part of Europe

Finance at Keele provides a rigorous training for students with an interest in understanding how financial markets work and why they are important. The course has been designed to train students in Finance but, at the same time, it combines naturally with many other subjects especially Economics, Business Management and Mathematics.

Our teaching is motivated by the following aims, to:

- Help students to explain a diverse range of real-world financial phenomena in terms of a small set of unifying core principles
- Help students to develop independence and self-confidence in their work and to be able to co-operate with colleagues
- Combine theoretical analysis with up-to-date factual knowledge about real financial phenomena
- Develop students' ability to use professional software tools for the analysis of real financial data
- Develop students' ability to present complex findings in a well-balanced and concise manner

Point of pride

In 2010, 45% of the graduating cohort went on to postgraduate or equivalent study and 80% of those who moved into employment secured 'graduate' jobs.

Course content

Year 1

An insight into the nature and scope of Finance is provided, and the following core modules are taken:

Economics of Financial Markets explores the connection between the financial system and the wider economy. This module emphasises how financial markets operate efficiently to transfer funds from savers to borrowers, the workings of the money and capital markets and how asset prices are determined by the equilibrium of supply and demand in these markets.

Quantitative Methods develops basic mathematical and statistical methods, such as calculus, probability, hypothesis testing and univariate regression used extensively in Economics and Finance.

Accounting Principles examines the basic concepts of financial accounting and how these may be used to construct and interpret financial accounts for an organisation.

Modules can also be taken from a range of electives, including:

- Strategic Thinking
- Financial and Management Accounting
- British and Global Economy

Year 2

Four core modules are taken

Asset Pricing introduces the relationship between risk and return in financial markets and the role of arbitrage in determining asset prices.

Portfolio Choice builds upon Asset Pricing and explores the rationale for holding portfolios and the advantages this brings as a way of diversifying risk for private investors and large financial institutions, such as insurance companies.

Introduction to Econometrics uses statistical methods to investigate selected economic and financial issues such as consumption functions, household labour supply and asset pricing.

Applied Financial Analysis deepens your understanding of statistical techniques utilised in the investigation of financial problems and issues.

The modules consider techniques for studying time-series data and applies these to problems of 'efficiency' in domestic and international financial markets and to asset pricing.

Year 3

The programme develops understanding of financial issues as they affect companies, options and futures markets and international financial transactions.

The following core modules are taken:

Corporate Finance undertakes analysis of company financing of investment projects; corporate tax policy; financial decisions and real activity; and the interaction of shareholders, creditors and managers.

Options and Futures examines the structure of options markets, the principles of option pricing, investment strategies with options, corporate securities as options and principles of futures pricing.

You can extend your interests in Finance by taking modules from a range of electives, including:

- Banking
- Game Theory
- International Finance
- The opportunity to take a structured, project-based independent study module using the tools needed to construct and interpret economic and business forecasts.
- Independent Study Project I & II

Teaching and assessment

Teaching takes place in lectures, tutorials, study groups and computer laboratory classes. Finance is a quantitative subject and financial markets themselves rely heavily on the use of IT.

Computer facilities are used extensively in Finance teaching, especially in quantitative methods, now part of the essential 'toolkit' of modern finance. Students acquire expertise with a wide range of statistical, economic and modern business software, and access to commercial databases, including Datastream, the main source of information for economic and financial data.

A range of assessment methods is utilised across the programme comprising weekly or fortnightly exercises, mid-semester tests, projects, essay assignments and unseen two-hour examinations. The precise combination in each module will depend on the material covered. Modules usually have an unseen examination that counts for 70% of the marks available.

Skills and careers

The course develops and assesses a variety of transferable and subject-specific skills, all of which are highly relevant to typical career choices in this subject area. Tests and examinations assess students' ability to solve problems and address issues under a severe time constraint, essays develop abilities in written expression and argument, a dissertation develops students' ability to study a single issue in depth, while seminars give students practice in making presentations and developing powers of oral expression and argument.

Graduates from our Dual Honours Finance programme leave Keele well prepared for further study or employment in finance and related areas. The skills acquired at Keele make graduates highly valued with employers. Finance graduates from Keele take up careers in the City, government service and in banking, accounting and other financial enterprises.

Some more ideas...

Finance and Economics

Finance and Economics share the same analytical framework. The notion of market equilibrium that is used extensively in Economics provides the foundation for the arbitrage ideas that underpin the standard approach to asset pricing used in Finance. The economic policies of governments studied in our macroeconomic modules are closely inter-related with the behaviour of the monetary and financial system.

The analytical toolkit acquired from the quantitative methods modules is identical for finance and economics. Graduates with this combination are well placed to find employment with financial institutions, or in the financial sections of large enterprises.

See also: [Finance and Business Management, page 85](#); [Finance and International Business, page 167](#); [Finance or Economics and Mathematics, page 187](#); [Economics, page 115](#); [Single Honours Business Economics, page 83](#); [Single Honours Accounting and Finance, page 53](#).

Forensic Science

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 80

Study abroad: Yes

UCAS Dual Honours combinations

- NF44** Accounting
- FT47** American Studies
- FF84** Applied Environmental Science
- CF84** Applied Psychology
- CF74** Biochemistry
- FC41** Biology
- FN47** Business Management
- FF41** Chemistry
- FG44** Computer Science
- GF44** Creative Computing
- FM42** Criminology
- FL41** Economics
- FX43** Educational Studies
- FG43** English
- FF46** Geology
- FV41** History
- FC4C** Human Biology
- FN46** Human Resource Management
- FG45** Information Systems
- FN41** International Business
- FN45** Marketing
- FG41** Mathematics
- FP43** Media, Communications and Culture
- FF4C** Medicinal Chemistry
- FW43** Music
- FW4H** Music Technology
- FB41** Neuroscience
- FV45** Philosophy
- FL42** Politics
- FC48** Psychology
- GF74** Smart Systems
- FLK3** Sociology
- F411** **Forensic Science (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
- F410** **Forensic Science with Science Foundation Year.** This four-year degree course is designed for students who wish to study Forensic Science but lack the necessary background qualifications. See page 273.



The course offers

- **BSc Forensic Science (Major and Dual Honours) courses**
- **A semester studying abroad**
- **Thought-provoking guest lecturers from forensic professionals**
- **Extra-curricula workshops and visits**
- **Team-based final year projects**
- **An enthusiastic and friendly teaching team**
- **Modern laboratory facilities with dedicated IT suites**
- **Hands-on experience of a wide range of modern instrumental and analytical techniques**
- **Personal and Year Tutors to monitor welfare and personal professional development**
- **Support in making the transition to university**

Forensic Science is very much a multidisciplinary science subject. It is the application of scientific methods and techniques in the context of crime and the legal system. It is a constantly fascinating subject because every measurement, every experiment is unique and the scientific results can have a significant impact on the life of a single human being. The story behind every scientific problem has a human interest angle, but the forensic scientist must be able to investigate and analyse the situation, impartially and objectively, through careful and exacting scientific measurement. Forensic Science graduates have a broad scientific education, with specialist understanding in particular areas such as chemical analysis, DNA identification, spectroscopy, microscopy and the biochemistry of drugs, complemented by excellent data analysis, reporting and communication skills.

For further information see: www.keele.ac.uk/forensic/

Degree routes

Forensic Science may be studied for the following modular degrees, all involving interdisciplinary aspects:

- **BSc Dual Honours:** with a second subject (science or non-science) studied for three years
- **BSc Forensic Science (Major):** including study of a second subject in the first and second years

BSc Dual Honours

Students will study Forensic Science together with a second Principal subject, over all three years of the course. The focus of the Dual Honours route is on the chemical and biological analysis of physical evidence and the scientific basis of forensic measurements. The modules taken will cover most of the main topics within the forensic discipline and include a project in the final year.

BSc Forensic Science (Major)

Following two years of Dual Honours study, students may elect to take a full programme of Forensic Science modules in the final year. In addition to the range of modules within the Dual Honours scheme, students taking Single Honours will focus on the acquisition, analysis and interpretation of evidence, including aspects of the presentation of results as an expert witness. A wider range of option modules may also be studied and project work extended through an individual topic researched in-depth as a dissertation.

Course content

Year 1

Your current studies will have given you a basic understanding of the scientific method and of chemistry, in particular. This knowledge base is reinforced and developed by some of the first year modules and you will extend your mathematical and statistical skills within the context of Forensic Science. You will gain an overview, including a more detailed understanding of some topics, plus you will start to acquire a wide range of skills in both the characterisation and analysis of forensic materials and in aspects of forensic biology.

Core modules

Forensic Science Principles provides a historical introduction to the subject and its role in the present day. This includes the legal and crime scene context together with issues arising from the handling of evidence. Some key areas such as identifying

individuals, identifying forgeries and chemical identification will be introduced. The issues around reporting, presenting and defending forensic analyses will also be addressed.

Chemical Science Principles will extend your understanding of chemical science to enable you to study material within the forensic chemistry thread of this course. This module provides a theoretical and practical basis in analytical methods, the identification of organic and inorganic substances and an understanding of their chemical properties with the emphasis on forensic science topics, as well as enhancing your practical skills in experimental chemistry and analytical methods. In addition, it introduces basic mathematical concepts necessary for the analysis and interpretation of forensic evidence.

Forensic Analysis covers the basic chemical and physical methods for the measurement and characterisation of forensic evidence. This module gives an overview of a number of investigative techniques and introduces the basic chemical and physical methods of analysis of trace evidence. It focuses on some of the key techniques, such as optical microscopy, microspectroscopy and chromatography, and provides hands-on experience in a variety of analytical methods through practical laboratory work. The need to ensure reliability and accuracy in forensic work and the ways in which the significance of results is assessed is also covered.

Forensic Identification introduces the core thread of biological science within this course. It presents the concept of identifying individuals by the analysis of the unique complement of biological molecules produced by their bodies, or by the identification of their skeletal remains. The main focus is on DNA, the most important molecule for forensic purposes, and you will learn what it is made of, how it is replicated, how it is passed on from one generation to the next, the types of sequence found in the human genome and which of these sequences are best to use for DNA fingerprinting. Techniques commonly used to analyse other molecules, e.g. proteins and lipids, will also be covered. You will get the chance to practise some of these techniques in the laboratory sessions.

Year 2

You continue to study core chemical, biological and criminalistic themes. Throughout the course, case studies will be used, where appropriate, to illustrate the context of the scientific investigation.

“The definite highlight was being able to lead my own investigations as part of my third year research project.”

Kris Wisneiwski,
Forensic Science and Chemistry Graduate,
2010

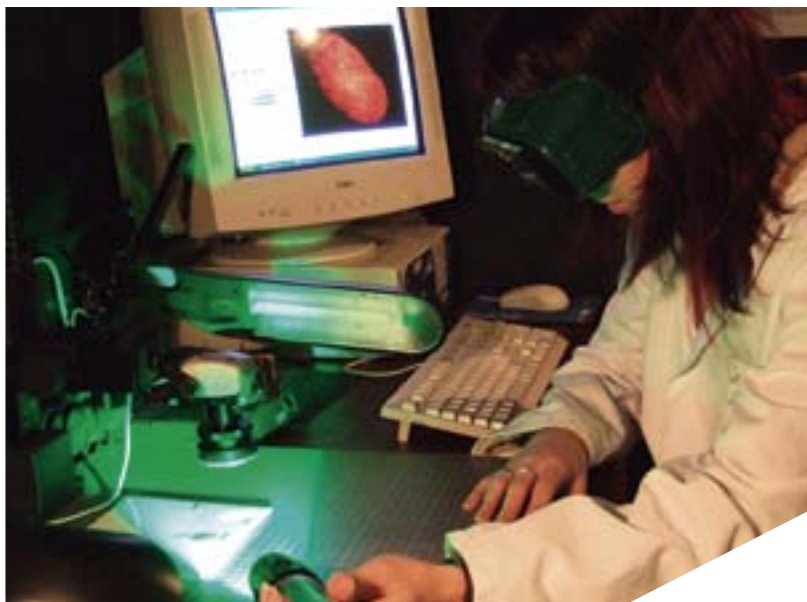
Core modules

Criminalistic Methods includes areas of forensic science where the science of pattern identification and analysis is of vital importance. This includes the study of marks and impressions, e.g. fingerprints, footwear and tyres. You will engage in document examination – the study of handwriting characteristics and the identification of forgery – plus the characterisation of papers and inks. An understanding of blood spatter patterns is also included.

Forensic Genetics continues the biological thread with an exploration of the principles underlying DNA sequencing and DNA fingerprinting, the molecular biology of genetics and the human genome project. The module looks at the usefulness of forensic markers used for human identification such as STR typing, the Y chromosome and mtDNA lineage markers, as well as the human genome project. Population genetics is introduced in the context of assessing the signature of a matching DNA profile and the presentation of that DNA evidence in court.

Spectroscopy and Advanced Analysis explores, in detail, a wide range of modern spectroscopic and related techniques used for the chemical characterisation of forensic materials. These include IR and Raman spectroscopy, XRF, XRD, methods of elemental analysis, chromatographic techniques and mass spectrometry. The use of imaging techniques in forensic

Forensic Science



science will also be covered. You will gain experience of these techniques in the practical context.

Drugs of Abuse covers the classification and identification of a variety of drugs of abuse and their effects on the human body and includes the biological mechanisms associated with processing abused substances, with a detailed examination of the liver. Also included is the chemical characterisation and quantification of substances ranging from alcohol to hard drugs. Legal aspects and procedures will also be covered.

Year 3

You will study advanced topics in Forensic Science, undertake a team project and choose to specialise through a choice of option modules:

Evaluation of Evidence, Explosives and Arson continues your study of some core areas of Forensic Science including the investigation of fire and arson, the analysis and impact of explosives and enhancement of your skills in key areas of the Forensic process.

Forensic Toxicology examines the impact of poisons on the human body and the identification and quantification of such substances. It includes aspects of the classification, administration and excretion of

poisons plus methods of analysis within body fluids. Forensic pathology is also covered in some detail.

Team Project will allow you to gain valuable scientific and transferable skills in the context of a forensic investigation.

You will be required to devise a project plan, organise and manage the team activities, carry out experimental work, analyse data and reach conclusions that you can defend to others. Production of a project report is a key outcome of this module.

Module options are continually under review and every year we intend to offer students some choice in their selection of an option topic. Examples include:

Forensic Geoscience aims to teach students key theoretical and practical issues of some specialist areas of Forensic Science which complement the core curriculum of the course and where topics are at the forefront of and of relevance to research in Forensic Science. These areas include: forensic geoscience, forensic geophysics, forensic entomology, forensic palynology and palaeontology.

Advanced Topics in Forensic Analysis introduces students to key theoretical and practical issues of some specialist areas of Forensic Science which complement the core curriculum of the course. Topic areas will cover advanced forensic analysis of ballistics, paint, glass, fibres, archaeology and art fraud, with particular emphasis on examination of evidence in court issues.

Additional modules for Forensic Science (Major) students

Alongside the Dual Honours modules, those on the Major subject route in Forensic Science take further modules, with a focus on aspects of professional forensic practice. This centres round the identification of evidence at the crime scene, its subsequent analysis and reporting, followed by the defence of the results as an expert witness in court. An individual dissertation is also written following research on a specific forensic topic of interest. Finally, a further option module is studied giving additional breadth of knowledge across the discipline.

– *Forensic Dissertation*

– *Interpretation, Evaluation and Presentation of Evidence (double module)*

Workshops and visits

Currently, students are able to visit a QC laboratory in their second year as part of the Spectroscopy and Advanced Analysis module, and watch a post-mortem at the public mortuary in Stoke-on-Trent, as part of the third year Forensic Toxicology module.

Third year students are also offered a weekend workshop in Forensic Anthropology, Osteology and Facial Reconstruction. Throughout all three years of the degree programme there are visits from forensic science professionals who give excellent lectures and workshops.

Forensic Science laboratories

Our newly refurbished Forensic Science laboratories have had significant investment and are equipped with state-of-the-art forensic and analytical equipment, evidence of the particularly strong links that staff have with industry, which results in donations. Alongside our laboratories, there is a dedicated IT suite for Forensic Science students. September 2009 saw the completion and opening of a new £4 million multi-user teaching laboratory to complement our existing facilities.

Some more ideas...

Forensic Science and Criminology

This combination provides complementary study in both the scientific and sociological understanding of crime, detection, justice and punishment. Criminology covers the inter-relation between law, crime and society in a wide range of contexts. Forensic Science focuses on the role of the scientific method in the detection of crime and in bringing criminals to justice. By coupling the strong tradition in qualitative approaches favoured by Criminology with the rigorous, quantitative skills developed within Forensic Science, graduates from this degree combination gain an excellent understanding of the criminal justice system and have a very strong skills base on which to pursue a wide range of careers.

Forensic Science and Chemistry

Chemistry makes a major contribution to Forensic Science both through the application of chemical analysis techniques and through our understanding of the composition and properties of a wide range of materials from glass to drugs. The combination of these two subjects within the Dual Honours degree provides a strong chemistry focus to understanding of forensic issues and gives students enhanced scientific and practical laboratory skills. For those who are considering a career as a laboratory scientist or who wish to pursue Forensic Science at MSc or PhD level, this combination is highly appropriate.

See also: Biochemistry and Forensic Science, page 67.

Teaching and assessment

In each year most modules are taught through a combination of lectures, small group tutorials, laboratory work and problem-based learning. Communication and other skills are taught by means of assignments, teamwork, mini projects, information-retrieval exercises and case studies. The reporting of these activities and of the laboratory work, whether by written or oral means, provides the route for development of presentational skills. Assessment is by examination (50% weighting in the first and second years, 70% weighting in the final year) plus a variety of in-course assignments (such as class tests, critical analysis of journal papers, laboratory reports and posters), particularly for the assessment of skills. Where appropriate, we employ self- and peer-assessment methods to enhance students' learning. Students will undertake their final year team projects in the research laboratories, alongside postgraduate and postdoctoral researchers. Assessment of project work includes a dissertation, cross-examination interviews and assessment of the laboratory diary.

Accreditation

Our BSc Forensic Science (Major) is accredited by the Forensic Science Society www.forensic-science-society.org.uk/ **Accreditation**

“Gaining experience working with analytical equipment such as GC-MS, NMR, HPLC and ICP-OES during the practical sessions is essential for any career as a scientist.”

Lucy Greenwood,
Forensic Science and Law Graduate, 2010

Point of pride

Forensic Science at Keele has strong links with the University of Tennessee Forensic Anthropology Centre (“Body Farm”) and students are offered the chance to undertake a short course there in the second or third year.

Geography

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 80

Study abroad: Yes

UCAS Single Honours programme

L701 Geography

UCAS Dual Honours combinations

NL47 Accounting

LTT7 American Studies

FL97 Applied Environmental Science

LCR7 Biochemistry

LCR1 Biology

LN79 Business Management

FLC7 Chemistry

LG74 Computer Science

GF48 Creative Computing

LM79 Criminology

LLC7 Economics

LX73 Educational Studies

LQR3 English

LF76 Geology

LV71 History

FC81 Human Biology

LN76 Human Resource Management

LG7K Information Systems

LN71 International Business

LN75 Marketing

LG71 Mathematics

PF38 Media, Communications and Culture

LF71 Medicinal Chemistry

LW73 Music

LWT3 Music Technology

BF18 Neuroscience

LVR5 Philosophy

LL72 Politics

GF78 Smart Systems

LLJ7 Sociology

L700 **Geography (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.

L7LH **Geography with Social Sciences Foundation Year.** See page 275.

F800 **Geography with Science Foundation Year.** See page 273.

The course offers

- Varied and flexible programmes that are responsive to students' and employers' requirements
- Small-group teaching, a personal tutoring system and easy access to full-time staff who are both research active and committed to the undergraduate teaching programme having won a series of institutional and national teaching excellence awards
- Practical sessions that provide first-hand training in a range of specialist geographical skills relevant to future careers pathways and which make use of Keele's expansive campus environment
- Access to a broad range of modern computing and laboratory facilities within a recently refurbished building in the heart of the campus
- Flexible student choice of modules and assessment methods
- Exciting fieldwork opportunities to a variety of UK and overseas destinations
- The opportunity to study abroad at a variety of partner institutions

Geography is a broad-based subject, uniquely positioned at the interface between the physical and the social sciences. The Geography degree routes provide students with the opportunity to explore the full range of this dynamic discipline as part of either a Single Honours or a Dual Honours pathway. In both cases, the first year involves a broad-based introductory programme that provides a platform from which knowledge, understanding and skills are developed. The second and third years provide a variety of choices enabling students to specialise in the areas of Geography that they find most interesting. In the final year, for example, students currently have a choice of 13 specialist option modules that reflect staff members' research activities in both Human and Physical Geography. Fieldwork is an essential and enjoyable aspect of any Geography degree programme and field trips visiting both the spectacular scenery surrounding Keele as well as a series of exciting overseas destinations are integral to the programmes. Students also carry out an independent research project on a topic of their choice in the final year.

Geography at Keele can be studied in a variety of different ways:

- **Single Honours:** students study Geography as their sole subject for all three years
- **Dual Honours:** students take Geography in combination with another Principal option for all three years
- **Geography (Major):** students read a second subject alongside Geography for the first two years of the course and then focus solely on Geography during the third year

Geography can also be taken as part of the Foundation Year programme. This is designed for students who wish to study social sciences or science subjects at Keele but lack the necessary background qualifications. Further details of the Social Sciences Foundation Year can be found on page 275, and the Science Foundation Year on page 273.



“Thanks for all your help whilst at university. I never thought I would achieve as much as I did or would be confident enough to do the PGCE I'm so looking forward to.”

Rebecca Jennings,
Major Route Geography graduate (2010)

Course content

Year 1

Modules taken in the first year involve varied combinations of lectures, practical classes, tutorials and fieldwork. A range of core concepts and skills are introduced, establishing a firm foundation upon which the subsequent years can build.

Small-group tutorials help support your transition into University through regular meetings with a full-time member of academic staff and a small group of students on your course. They will also enable you to develop key study skills and to discuss in greater detail the issues covered in the other modules.

Lecture-based modules taken by all Geography students include:

Human Geographies illustrates the diversity of approaches and content of present-day Human Geography, exploring issues ranging from the social construction of identity to the geographies of consumption.

Fundamentals of Physical Geography provides an introduction into the role played by key processes at varying spatial scales, paying particular attention to the importance of global environmental change.

People and the Environment develops an understanding and appreciation of a range of current environmental issues including pollution, natural hazards and sustainable development.

In addition, practical sessions throughout the year introduce a range of geographical techniques including cartography, surveying and the use of Geographic Information Systems (GIS).

Field excursions throughout the year to a variety of scenic and historically-significant local sites offer an opportunity to practise newly acquired skills and provide first-hand training in the use of field methods and techniques.

Single Honours Geography students take three additional modules to those listed above:

The Practice of Physical Geography and **The Practice of Human Geography** explore professional practice, career opportunities and research developments in Physical Geography and Human Geography respectively, while **Geography and Geographers** encourages students to consider the influential roles played by key figures in the development of Geography as an academic subject.

Year 2

The second year provides an opportunity to examine a series of geographical topics in greater depth and critical detail, and to acquire a range of specialist subject skills of relevance both to final-year research and future career opportunities. Dual Honours Geography students have the opportunity either to maintain a broad base or to specialise in either Human or Physical Geography, while Single Honours geographers continue to explore the full breadth of the subject. All students have an opportunity to study abroad at one of our partner universities in Europe or North America in the Autumn Semester.

In the Autumn Semester, **Dynamic Geographies** provides an opportunity to examine a series of subjects that currently include **Hydrology and Oceanography**, **Geomorphology and Meteorology**, **Population Geographies**, **Nature & Society** and **Representing the World**. In addition, **Practical Physical Geography** or **Practical Human Geography**, provides first-hand experience of specialist research techniques associated with the two branches of

Geography

Geography. These modules also stress the 'real world' relevance of these techniques and highlight related careers opportunities.

In the Spring Semester, **Regional Landsystems** investigates global variations in geomorphic processes and the reasons behind the generation of the earth's diverse physical landscapes, whilst **Space and Society** explores how societal relationships and formations shape spaces and places. Finally, **Geographical Research Training** introduces independent research methods and culminates in an overseas field course to one of a variety of destinations.

Year 3

In the final year, you will carry out an independent research project with one-to-one supervision, based on a topic of your choice that will showcase the broad range of skills you have developed during the degree programme. You then choose a number of specialist option modules on topics that reflect staff members' research expertise (Dual Honours students select two or three while Single Honours and Major students select six).

Current options include:

- *Water Resources*
- *Glaciers and Glacial Geomorphology*
- *Global Environmental Change*
- *Natural Hazards*
- *Coastal Environments*
- *Families and Communities*
- *Applied Environmental GIS*
- *Cities, People and Sustainability*
- *Mobile Geographies*
- *Space and the City*
- *Inspirational Landscapes*
- *Post-colonialism in South Asia*
- *Economic Development and Environmental Transformation*

It should be noted that the availability of option choices can be subject to change.

Fieldwork

Fieldwork is an essential component of the degree programme and the aspect students frequently find most rewarding and memorable. In the first year, all students attend field excursions in the local area that take advantage of the spectacular scenery surrounding Keele. In the second year, all students take part in an overseas

field course that both introduces them to an unfamiliar geographical environment while providing first-hand experience of independent project work in advance of the final year dissertation project. Currently, students choose between field courses to Barcelona or Singapore (focusing on Human Geography), and the Andalucía region of Spain, and Iceland (focusing on Physical Geography). Financial assistance towards meeting the cost of compulsory fieldwork is provided to UK students.

Teaching and assessment

The Geography degree programmes are delivered by full-time staff that are committed to providing the best possible learning experience for our students. As a consequence, staff who contribute to the programmes have been awarded six teaching awards between 2006-11 including a National Teaching Fellowship.

The Geography degree programmes involve a diverse combination of lectures, practical classes, tutorials and fieldwork. All modules provide a mix of face-to-face teaching and independent learning that is supported by a variety of online resources, discussions and exercises provided through Keele's virtual learning environment. Assessment is based on a combination of coursework and examinations, with the varied nature of the coursework seeking to develop a broad range of generic and subject-specialist skills that are of value to future employers. As such, rather than simply relying on traditional essays, coursework assessments include group projects, technical reports, web pages, posters, reflective diaries, practical assignments, fieldwork activities and seminars.

Skills and careers

A range of both specific career-related and generic transferable skills are embedded throughout the three-year programme. Generic skills include the ability to locate, assess and synthesise a variety of information sources; to acquire, handle and interpret a range of data; and to devise, execute and write up independent research projects. In addition, the programme provides the opportunity to acquire and develop specialist techniques related, for example, to the use of GIS, surveying, the analysis of water and soil samples and the interpretation of remotely-sensed imagery. Consequently, on graduation, Geography students are well trained in a range of practical and applied

skills and well positioned to take advantage of career opportunities within various fields including transport and planning, teaching, environmental consultancy and the retail industry, or to embark on postgraduate courses.

“The field course has given me memories I will never forget and from which I have learned so much about geography. We are very lucky at Keele Geography to have staff who are so dedicated towards the students.”

Feedback from one of the Year 2 overseas field excursions (2010)

Point of pride

Geography staff at Keele have won teaching excellence awards for six years in succession (2006 – 2011).



Geography: Human Geography

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 25

Study abroad: Yes

UCAS	Dual Honours combinations
NL4R	Accounting
LTRR	American Studies
FLX7	Applied Environmental Science
CL77	Biochemistry
CL17	Biology
LNR9	Business Management
FLD7	Chemistry
GL47	Computer Science
GL4R	Creative Computing
LMR9	Criminology
LLD7	Economics
LXR3	Educational Studies
QL37	English
FL67	Geology
VL17	History
CL1R	Human Biology
LNR6	Human Resource Management
LG7L	Information Systems
LN7C	International Business
LNT5	Marketing
GL17	Mathematics
PL37	Media, Communications and Culture
FL17	Medicinal Chemistry
LWR3	Music
WL37	Music Technology
BL17	Neuroscience
VL57	Philosophy
LL27	Politics
GL77	Smart Systems
LLH7	Sociology
L702	Human Geography (Major). Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
L7L3	Human Geography with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Human Geography but lack the necessary background qualifications. See page 275.

The course offers

- Free choice of third year modules
- Medium-size and small-group teaching
- Residential British-based and overseas field courses
- Personal tutor system with access to staff members
- Significant proportion (50% on average) of assessments based on written work and projects
- A large overall Geography student intake and large modern buildings, with excellent computing facilities
- One of four different Geography degree courses

Human Geography is the study of individuals and communities, and of places and landscapes in a spatial context and in terms of cultures, economies, societies and resource bases, both in the present and the past. A rapidly evolving subject, it encompasses a rich diversity of strands. Besides providing an overview of new developments in the subject, the course at Keele focuses on a number of distinct themes and intersecting areas: family mobility, higher education and medical geography/social demography; international migration, development, sustainability and cultural economies; South Asian and cross-cultural world literature, postcolonial lifeworlds and literary representations of place and space; and cultures of mobilities and security, particularly through biopolitics, resilience and the empirical context of the aerial. Relationships between people and the worlds they inhabit are dynamic, complex and problematic; the Human Geography course offers the opportunity to explore and understand those relationships.

The Human Geography degree can be combined with any of almost 30 other subjects. It assumes no previous specialist knowledge.

The modules in the first year combine to provide a broad foundation and overview of the subject. In the second and third years, specialist modules provide the opportunity to concentrate on major sub-disciplines in Human Geography. In addition to these lecture-based modules, there are, in the first and second years, core modules that provide training in concepts, methods and transferable skills central to the study of Human Geography.

Fieldwork is an important part of the degree programme with participation in two residential field courses, one in a choice of overseas locations, in addition to an independent research project.

Course content

Year 1

The first year comprises three modules based on lectures and one based on practical classes and fieldwork. In addition, each student will be allocated a personal Human Geography tutor for the year.

Human Geographies explores cultural, social, population and development themes in Human Geography.

Practising Human Geography discusses the approaches and methods used by human geographers in examining those themes.

People and the Environment discusses contemporary approaches to environmental change.

The **Geographical Skills** module introduces a wide range of geographical techniques incorporating those for data collection, analysis and presentation and including field survey, statistical analysis and Geographical Information Systems. It also emphasises study skills such as problem solving, group working and the presentation of project results.

Fieldwork plays an important part in the Human Geography programme and provides training and instruction in the use of field methods and techniques. In the first year there are field days in the local area.

Year 2

Students take four modules (with some options). The lecture-based modules introduce students to the four major strands in Human Geography pursued at Keele.

Dynamic Worlds, a lecture-based module, introduces students to the sub-areas in Human Geography of environmental geography and of population geography.

Society and Space examines recent developments in cultural geography and social and urban geography.

There are two practical-based modules: **Practical Human Geography** deals with data sources and research techniques, while **Geographical Research Training** is a course in research methods and techniques culminating in an overseas field course.

Study Abroad

Students have the opportunity to spend the first semester of their second year studying at one of our partners universities in Europe or North America.

Lecture-based module choices include:

- *Applied Environmental GIS*
- *Economic Development and Environmental Transformation*
- *Postcolonialism in South Asia*
- *Inspirational Landscapes*
- *Space and the City*
- *Eco-Cities: Vision of the Good City and Sustainable Development*

In addition, students have the choice of either a single or double-module dissertation based on individual research. It should be noted that the availability of second and third year modules changes from time to time.

We encourage students to acquire a wider range of analytical and interpersonal skills during the three years of study. This policy includes making full use of the University's computing facilities. In addition there are several computer laboratories for Geography students and instruction is available.

Fieldwork

In the first year, all students attend a residential course based in Britain. In the second year, Human Geography students participate in an overseas field course; current venues include Barcelona and Singapore.

Some assistance towards meeting the cost of compulsory fieldwork can be given to home students, but it should not be assumed that all costs would be met. Examples of the typical student costs of fieldwork in recent years are: first year £40 and second year approximately £350 for Barcelona and £200 for Singapore, plus flight cost.

Teaching and assessment

Modules in Human Geography are taught through a combination of lectures, practical classes, tutorials and fieldwork. Assessment in the lecture modules is based on a combination of examinations and coursework.

In the practical classes and field courses all marks are based on individual and group projects.

Skills and careers

Geography involves a wider range of skills, methods and teaching approaches than most subjects. Geography provides practical and applied skills as well as an informed view of the relationship between people and their physical and social environments.

In recent years, Keele Geography graduates have successfully found career openings in a wide range of commercial and public sector activities and many have gone on to take higher degrees.

Points of pride

External examiner's comment from his 2011 report:

"The friendliness and relative small size of the department delivers some excellent results and student satisfaction is outstanding."
Prof Stephen Hinchcliffe

In the 2011 National Student Survey, Keele University's Human and Social Geography recorded a very high "overall satisfaction with the course" of 94% against a sector-wide average of 83%.

Geography: Human Geography



“My Human Geography course has been a truly eye-opening experience: it’s changed the way I see the world.”

Some more ideas...

Human Geography and Sociology

Sociology can provide a fascinating and highly effective combination with Human Geography in the Dual Honours system that is Keele's speciality. Sociology is concerned with the groups, structures and institutions that make up human society. It also looks at the changing global, national and local contexts of society. Here is an immediate point of contact with Human Geography, which also concerns itself with the characteristics of human society, together with their spatial patterns and impacts on the environment. In almost every contemporary social issue there is a geographical dimension, whether it is the growth of globalisation, the distribution of crime and deprivation within urban society or the impact of changing family structures on housing and land-use patterns. Our modern world is changing at an unprecedented rate; the skills and knowledge of a Human Geography/Sociology combination will provide valuable tools for dealing with this change as well as an excellent preparation for a wide range of career opportunities.

Human Geography and History

Human Geography and History represent an attractive, challenging and logical combination of subjects to be read at Keele. The links between the two are many and obvious: no aspect of Human Geography can be satisfactorily appreciated without an effective understanding of its historical development; similarly, all historical processes take place in a spatial context and in human and/or physical environments.

Besides acquiring the specialised and distinctive skills of each discipline, this combination offers the opportunity to integrate and apply with advantage spatial and temporal approaches – two of the major analytical tools in the social sciences and humanities – to a range of topics and problems.

For example, studies of gender, welfare provision and planning, development and colonialism, agrarian change and reshaping post-war Europe – all themes of concern in Human Geography and

History – are not only better illuminated but enhanced by such dual appraisal. Many students with an interest in both subjects were forced to choose between the two at secondary school. This Keele combination provides students with the chance both to reunite and to explore further these interests. An A/AS-level is required in Geography, or in a related subject.

See also: Human Geography and Human Biology, page 75; Physical Geography, page 147; Geography, page 139.



Geography: Physical Geography

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 40

Study abroad: Yes

UCAS	Dual Honours combinations
NF48	Accounting
FT87	American Studies
FF98	Applied Environmental Science
CF78	Biochemistry
CF18	Biology
FN89	Business Management
FF81	Chemistry
FG84	Computer Science
GF4V	Creative Computing
FM89	Criminology
FL81	Economics
FX83	Educational Studies
FG83	English
FF68	Geology
FV81	History
CF1V	Human Biology
FN86	Human Resource Management
FG85	Information Systems
NF18	International Business
FN85	Marketing
FG81	Mathematics
PFH8	Media, Communications and Culture
FF18	Medicinal Chemistry
FW83	Music
WF38	Music Technology
BFC8	Neuroscience
FV85	Philosophy
FL82	Politics
GF7V	Smart Systems
LF38	Sociology
F840	Physical Geography (Major). Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
F803	Physical Geography with Science Foundation Year. This four-year degree course is designed for students who wish to study Physical Geography but lack the necessary background qualifications. See page 273.



The course offers

- An up-to-date programme responsive to students' and employers' requirements
- Teaching linked to career opportunities and current environmental issues
- Friendly, accessible teaching staff
- Flexible student choice of modules and assessment methods
- Exciting fieldwork opportunities and a wide range of teaching methods
- The opportunity to combine with subjects in natural sciences, social sciences and humanities
- The course is taught in a well-equipped building, with newly refurbished laboratories, in the heart of the campus, by prize-winning teaching staff who are also internationally recognised researchers

Physical Geography is a rapidly evolving subject at the heart of our understanding of the global environment. It is all about understanding the natural world around us and predicting how it might change. Global warming; volcanoes, glaciers, mountains and oceans; local landscapes and complex global systems; floods, hurricanes and landslides: these are the sorts of topics that fascinate physical geographers. We explore exciting and spectacular landscapes while developing skills that will be valuable in a range of different careers. The subject offers flexible opportunities to carry out fieldwork, laboratory research and other practical activities that will give students confidence in both hands-on and virtual technologies as well as traditional learning skills.

Our programme is closely tied to the skills base described by the Royal Geographical Society and set out in national educational standards. Physical Geography staff have won a prestigious National Teaching Fellowship award and have won Keele University awards for excellence in teaching for five years in succession. Our National Student Survey results mark us out as one of the most popular Physical Geography Courses in the country, with extremely high student satisfaction rates.

At Keele, we offer three undergraduate pathways in Physical Geography, all of which lead to a BSc (Honours) degree:

- A three-year Dual Honours course
- A three-year Major Honours course
- One of the above preceded by a Science Foundation Year

Course content

Physical Geography at Keele begins with introductory modules that provide a platform from which students can develop knowledge, understanding and skills, and caters both for students with strong traditional A-level grades in Geography and for students with little prior experience of the subject. The first year involves a broad-based introductory programme, but in the second and third years students can specialise in the areas of Physical Geography that most interest them. In addition to core modules covering key concepts and techniques, we offer optional modules in specialist subjects such as geomorphology, meteorology, glaciology, geographic information systems (GIS), water resources, coastal environments and natural hazards. Fieldwork is important in Physical Geography, and in addition to local excursions students will take field courses in the UK (in the first year) and overseas (currently a choice between Iceland or Spain in the second year). Students will also have the opportunity to carry out an independent research project on a topic of their choice in the final year.

Fieldwork

In the first year, Physical Geography students take part in local field excursions to sites of scientific interest and in a UK-based field course that gives the opportunity to practise skills and techniques previously learned in the laboratory. In the second year, students take part in an overseas field course that develops their research skills and provides an opportunity to explore processes and landforms in unfamiliar landscapes. Students currently have the choice between one course in the semi-arid environment of Southern Spain and one in the volcanic and glacial landscape of Iceland.

Some assistance towards meeting the cost of compulsory fieldwork can be given to home students, but it should not be assumed that all costs will be met.

Year 1

The essential fundamentals of the discipline are covered, including factual information, key concepts and academic skills. You will be allocated a Physical Geography individual tutor for the year, who will help you to get established in your studies and will be available for one-to-one help whenever you need it.

Teaching includes

Fundamentals of Physical Geography, an introduction to key concepts and information.

The Practice of Physical Geography sets the subject in a broader practical, vocational and professional context.

People and Environment explores links between Physical Geography and society, such as hazards and resources.

Geographical Skills, a laboratory-based course with practical tuition in essential skills such as surveying.

Fieldwork, a field course with an opportunity to practise newly learned skills.

Small-group tutorials, a forum for focussed individual discussion and training.

Year 2

You will begin to make your own choices about what topics you study. You will develop independent research skills and be introduced to advanced topics and conceptual issues in Physical Geography.

Teaching includes

Regional Landsystems, a lecture course that focuses on important concepts, sites, processes and events in Physical Geography.

Practical Physical Geography, a laboratory class in practical skills of data collection and analysis, including techniques such as surveying, water analysis and GIS.

Research Training, a laboratory class in research techniques that will prepare you to carry out independent research within your studies or in your future employment.

Advanced Fieldwork, an overseas field course, typically to Southern Spain or Iceland, in which you can practise skills learned in the classroom and laboratory, and explore unfamiliar landscapes.

Dynamic Geographies, students choose short blocks of lectures in key topics such as geomorphology, hydrology, oceanography and meteorology and begin to specialise in areas that most interest them.

Study Abroad

You also have an opportunity to study abroad for a semester at one of our overseas partner universities.

Year 3

You can focus on topics that interest you the most and develop your knowledge and understanding to a level of expertise in your chosen specialist subjects. You also complete a research project on a topic of your choice.

Teaching includes

Dissertation, an independent research project.

Specialist option modules from a list, including:

- *Global Environmental Change*
- *Coastal Environments*
- *Glaciers and Glacial Geomorphology*
- *Water Resources*
- *Natural Hazards*
- *Applied Environmental Geographic Information Systems*
- *Inspirational Landscapes*
- *And a range of additional Earth Science and Life Science modules*

BSc Physical Geography (Major) (F840)

Many students enjoy Physical Geography as part of a Dual Honours combination, but students who wish to focus their studies more specifically on Physical Geography may elect to take Physical Geography as a Major Honours course. Major Honours students read a second science subject alongside Physical Geography for the first two years of the course but then focus solely on Physical Geography during the third year.

Students should indicate their choice of second subject (from the list of subjects at the front of this entry) in the 'further information' section of their UCAS form.

Teaching and assessment

We teach in a variety of different ways in order to help students to learn in the way that suits them best. Students will be involved not only in traditional lecture-style classes, but also in small-group and individual tutorials, laboratory classes, field study groups and independent study and project work. Assessment is based on a flexible combination of coursework (continuous assessment) and examinations. The nature of the coursework is very varied, reflecting the range of teaching situations students will encounter, and can include projects, technical reports, web pages, posters, practical exercises, online discussions and seminars as well

Geography: Physical Geography



“Thanks to you, I now appreciate and question the physical world in a different light.”

Danielle,
Physical Geography graduate, 2006

Point of pride

Physical Geography at Keele is one of the top four courses in its category in the National Student Survey with a fantastic student satisfaction rating of 97% in 2011.

as traditional essays. Overall, about 60-70% of assessment will be by coursework, depending on students' choice of options. Students can choose a pathway through the course that suits their style of learning and allows them to make the most of their particular skills and strengths.

Some more ideas...

Skills and careers

The Physical Geography course is an ideal foundation for careers in earth sciences, conservation management, geo-consultancy and environmental research, as well as in traditional geographical employment destinations such as planning, teaching and academic research. We have involved colleagues from industry in the design of parts of the course and we encourage students to recognise the significance of their studies to future employment. Graduates in Physical Geography are well trained in a range of professional and transferable skills. These include the use of IT and skills in the acquisition, handling and interpretation of a wide range of types of data. Physical Geography graduates can be expected to be competent in making written and spoken presentations, and in making informed assessments of all types of information.

Physical Geography and Applied Environmental Science

The combination of Physical Geography with Applied Environmental Science provides a deep insight into the formation and nature of the landscape, and its relationship with the living world. With emphasis on IT and the use of a wide range of types of data in Physical Geography, coupled with training in field techniques in both subjects, graduates are well placed for a variety of careers in resource management, environmental protection and environmental consultancy as well as in more general environmental careers.

Physical Geography and Geology

Physical Geography is the most popular subject to study in combination with Geology at Keele. These two related disciplines are closely integrated, with most lectures and practical classes from both subjects being taught in the GeoSchool building that is equipped with specialist teaching facilities. Physical Geography students gain insight into the processes and landforms that shape the present-day earth surface.

This forms an ideal base from which students can begin to understand how similar mechanisms have acted to control the evolution of the Earth over geological timescales. The point of common overlap of the two disciplines is the study of late Quaternary environments (the last few tens of thousands of years of Earth history). Here, students investigate how factors such as global climate change have controlled the development of landforms and how these features are represented in the recent geological record. The Physical Geography/Geology combination assumes no prior experience in either discipline.

Students combining Physical Geography and Geology may register for a Dual Honours degree, or may choose to specialise in either Physical Geography or Geology in their final year and receive a Major Honours degree. They may also opt for the four-year MGeoscience undergraduate Master's degree.

See also: Human Geography, page 143; Geography, page 139.



Geology

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 55

Study abroad: Yes

UCAS Dual Honours combinations

NF46	Accounting
FT67	American Studies
FFX6	Applied Environmental Science†
CF8P	Applied Psychology†
FF56	Astrophysics†
CF16	Biology†
FN69	Business Management
FF16	Chemistry†
FG64	Computer Science†
GF46	Creative Computing†
FL61	Economics
FX63	Educational Studies
PF3P	Film Studies
FN63	Finance
FF46	Forensic Science†
LF76	Geography
FV61	History
FC6C	Human Biology†
FL67	Human Geography
FG65	Information Systems†
FN61	International Business
FL62	International Relations
FM61	Law
FN65	Marketing
PF36	Media, Communications and Culture
FF61	Medicinal Chemistry†
FW63	Music
BF16	Neuroscience†
FV65	Philosophy
FF68	Physical Geography†
FF36	Physics†
CF86	Psychology†
GF76	Smart Systems†
FL63	Sociology
F600	Geology (Major). Please indicate your choice of second subject for the first and second years in the 'further information' section of your UCAS form.
F642	Single Honours Geoscience. See page 155.
F640	MGeoscience (four years). See page 155.
F603	Geology with Science Foundation Year. See page 273.



Degree routes

At Keele we offer a wide choice of undergraduate degree pathways in Geology, designed to suit individual needs:

- Three-year BSc Dual Honours Geology
- Three-year BSc Geology (Major)
- Three-year BSc Single Honours Geoscience (see page 155)
- Four-year undergraduate MGeoscience course for those considering a career in Earth science
- One of the above geology courses preceded by a Science Foundation Year

Students are able to transfer between programmes within the first two years of their studies.

The Dual Honours Geology, Geology (Major) and MGeoscience programmes involve the study of another subject alongside Geology for the first two years. Those students studying Dual Honours degrees also study their other subject during the third year. Popular subject choices that students often combine with Geology include Geography, Physical Geography, Human Geography, Applied Environmental Science, Biology, Astrophysics, Chemistry and Computer Science.

Those applicants who are interested in taking a three-year Single Honours course in Geology should look at our new Geoscience programme (see page 155). The MGeoscience pathway can also be taken following the Single Honours Geoscience programme for the first two years.

All Geology programmes share a common first two years, providing a broad treatment of Earth Science and introducing the basic concepts of Geology. This provides a comprehensive grounding on which to base more specialised study later in the programme. Particular attention is paid to first-hand observation and interpretation in the field and laboratory, as well as to applied aspects of the discipline.

Students have the opportunity to study abroad for a semester at one of our overseas partner universities.

Course content

During the first two years, the course investigates the characteristics of rocks, minerals and fossils, together with the diverse processes that govern their formation and development. The interpretation and construction of geological maps is an essential component of the course.

Year 1

Core modules

Planet Earth introduces the Earth as a planet, geological processes such as plate tectonics and how these processes relate to geological features such as volcanoes, earthquakes and tsunamis. These geological processes and features are compared with those on other planets.

Rocks, Minerals and Fossils provides an introduction to common rock-forming minerals, as well as igneous, sedimentary and metamorphic rocks in hand specimens. The major fossil groups are also studied, including trilobites, graptolites, ammonites, corals and dinosaurs.

Rocks – Up Close develops understanding of the formation and classification of different rock types by examining them using a petrological microscope.

Time and Space introduces Earth time and Earth history. It covers stratigraphic principles and the geological evolution of Europe. It also introduces geological structures and the interpretation of geological maps.

Year 2

Particular attention is paid to first-hand observation, recording and interpretation of geological phenomena in the field and laboratory. The second year involves the following four core modules:

Igneous and Metamorphic Petrology studies the nature of igneous bodies and the processes of the formation of igneous rocks. An introduction to isotopes for magma source identification and age dating is also covered. Studies of metamorphic minerals and textures are described in the context of regional, contact and dynamic metamorphism.

Reconstructing Past Environments demonstrates how the geomorphology of ancient sedimentary environments can be reconstructed from evidence in the rock record and from using equivalent modern environments as a template.

Advanced Structural Geology and **Geological Mapping Training:** In the **Structural Geology** component of the module, students investigate the behaviour of rocks when deformed and the methods used to study their deformation. The practical classes place emphasis on the use of computing techniques for structural analysis and visualisation, including the use of Geographical/Geological Information Systems (GIS). **The Geological Mapping Training** part of the module is mainly based on a residential field course that takes place immediately before the start of the second year and covers the techniques used to make a geological map.

Geoscience Field Techniques has a number of aims, including an introduction to the key concepts in near-surface geophysics, the demonstration in the field of the structure and development of a major overseas geological province, and to prepare students with appropriate background knowledge to carry out their final year independent field project.

Year 3

A wide range of more specialised options is available during the third year. You will be expected to undertake a double-module research project (normally field mapping or geophysical surveying) based around work carried out in the summer vacation between the second and third years.

In the final year, Dual Honours students take two Geology option modules chosen from those shown below. Major and third year MGeoscience students take five Geology option modules in addition to a core double-module independent field project and an advanced field course module.

Option modules

Exploration Geophysics for the Hydrocarbon Industry examines in detail the acquisition, processing and interpretation of seismic reflection data and borehole geophysical logs, and their extensive use in the exploration for hydrocarbons.

Advanced Sedimentology concentrates on the analytical methods of seismic and sequence stratigraphy, which allow the geometry of sedimentary rock bodies to be related to basin-wide tectonic and changing sea level controls. The development of sequence stratigraphic techniques is a key part of modern hydrocarbon exploration.

Economic Geology covers the processes and mechanisms of ore body formation, together with a review of exploration techniques. It also covers aggregate materials and coal deposits in terms of their production and uses, and includes field excursions to a coal

mine and mineral mine.

Structure and Geodynamics uses a combination of lectures, practical classes and fieldwork to study the structural and geodynamic effects associated with continental tectonics. It includes a two-day field course to South West England.

Volcanic and Magmatic Processes examines the processes operating during magma ascent and storage in crustal reservoirs, volcanic eruption and injection of volcanic ash and gases into the atmosphere (and includes a field course to southern Italy).

Natural Hazards looks at the geological considerations relating to earthquakes, volcanoes, landslides and waste disposal as well as how such phenomena are monitored and the impact they have on human life.

Micropalaeontology involves the study of major microfossil groups, their palaeogeographical, palaeoecological and biostratigraphical potential. An introduction to state-of-the-art Electron microscopic techniques is included.

Glaciers and Glacial Geomorphology* covers the characteristics and behaviour of glaciers, including their role as a part of the environment and importance to human activity.

Global Environmental Change* aims to develop a systematic understanding of key issues and debates in global environmental change, and in particular to enable students to appreciate the relationships between global environmental change and the characteristics of the Earth's surface processes and landscapes.

Hydrological and Engineering Geology provides a practical understanding of groundwater and rock/material behaviour.

Coastal Environments* aims to develop a detailed understanding of coastal processes and landforms, and an appreciation of the links between form and process in coastal environments over a range of spatial and temporal scales.

Applied Methods in the Environmental Sciences* provides an understanding and technical appreciation of the process and application of a range of analytical techniques relevant to the analysis of different environmental media (including soil, water and vegetation).

*These modules are available to Geology (Major) and MGeoscience students only.

Further information is also available at www.keele.ac.uk/eesg/applicants/geology/

Geology

Summary of Geology degree courses

	BSc Dual Honours	BSc Major	MGeoscience
First Year	<ul style="list-style-type: none"> – Four modules in Geology – Four modules in a second subject 	<ul style="list-style-type: none"> – Four modules in Geology – Four modules in a second subject 	<ul style="list-style-type: none"> – Four modules in Geology – Four modules in a second subject
Second Year	<ul style="list-style-type: none"> – Four modules in Geology – Four modules in a second subject 	<ul style="list-style-type: none"> – Four modules in Geology – Four modules in a second subject 	<ul style="list-style-type: none"> – Four modules in Geology – Four modules in a second Subject
Third Year	<ul style="list-style-type: none"> – Double-module independent field project and two option modules in Geology – Four modules in a second subject 	<ul style="list-style-type: none"> – Double-module independent field project, advanced field course and five option modules in Geology 	<ul style="list-style-type: none"> – Double-module independent field project, advanced field course and five option modules in Geology and Physical Geography
Fourth Year			<ul style="list-style-type: none"> – Triple-module research project, two core and three option modules in Geology and Physical Geography

MGeoscience

MGeoscience at Keele is a four-year undergraduate Masters degree course for those students considering a specialist career in the Earth Sciences. During the first two years, students either study Geology along with another science subject or follow the Single Honours Geoscience course. MGeoscience is taken as a single subject from the third year. Students in their third year take a compulsory independent field project and an advanced field course module, plus a choice of five option modules from those listed.

Year 4

MGeoscience

Fourth year MGeoscience students take the following compulsory modules in addition to three Master's level versions of the third year option modules:

Research Project builds on subject-specific and other practical skills that have been developed in previous years of the course to carry out an advanced research investigation within an area of the Earth Sciences.

Literature Synthesis: students will carry out a detailed literature survey on a specific

Earth Sciences topic and present the results from this exercise via a website. A series of practical classes are provided on web authoring.

Spatial Geoscience Data Analysis provides experience of a variety of up-to-date methodologies for the acquisition, analysis and visualisation of spatially distributed geological and geophysical data. This module also includes a five-day residential field course to North West England.

Fourth year MGeoscience students can also select option modules entitled **Programming Skills for Earth Scientists** and the **Evolution of Fossil Ecosystems**.

Fieldwork

Fieldwork forms an essential part of a geologist's training. Field courses at Keele are designed to integrate with, and expand on, formal class teaching and to develop observational skills. Several classic geological areas within easy travelling distance of Keele are visited. During a second year field course in Spain, students will study the geological evolution of an evolving mountain belt.

During the first two years there are three major field classes and several weekend field excursions that include instruction in field

mapping. In subsequent years, specialised field classes are related to aspects of individual modules.

Students will also normally undertake an independent field project based on work conducted in an area of their choice. In recent years, students have chosen to undertake field study in Spain, Eastern Europe and Canada, as well as in the UK.

Teaching and assessment

Each taught module normally involves two lectures and a three-hour practical class per week. Additional teaching is provided in small-group and one-to-one tutorial sessions. A number of field visits, of varying length, are integrated into the teaching programme to provide first-hand experience of geological phenomena.

Skills and careers

In addition to the specific geological skills acquired on the course, training is also given in IT, report writing and oral and poster presentation skills. The nature of Geology promotes logical, deductive reasoning and problem-solving skills that are valued by employers. Keele Geology graduates have an excellent track record of gaining varied

and stimulating employment positions. For example, recent graduates have begun successful careers in geological survey institutions, environmental companies, water and land management companies, the oil and gas industry and the mining and quarrying industry. Other students have progressed to postgraduate Master's courses or have undertaken PhD research.

“Studying Geology at Keele is a unique experience like no other, with highly educated staff and an exceptional learning and teaching environment. I can think of nowhere more perfect for studying this dynamic subject.”

Michael Kelly,
Dual Honours Geology and Physical
Geography Graduate, 2008

Some more ideas...

Geology and Physical Geography

Physical Geography is the most popular subject to study in combination with Geology at Keele. These two related disciplines are closely integrated, with most lectures and practical classes from both subjects being taught in the Earth Sciences and Geography building that is equipped with specialist teaching facilities. Physical Geography students gain insight into the processes and landforms that shape the present-day Earth's surface. This forms an ideal base from which students can begin to understand how similar mechanisms have acted to control the evolution of the Earth over geological timescales. The point of common overlap of the two disciplines is the study of late Quaternary environments (the last few tens of thousands of years of Earth history). Here, students investigate how factors such as global climate change have controlled the development of landforms and how these features are represented in the recent geological record. Students undertaking a Geology and Physical Geography Dual Honours degree spend two weeks on an overseas field course exploring both the geological and geomorphological development of a mountain range. The Geology/Physical Geography combination assumes no prior experience in either discipline. Students combining Geology and Physical Geography may register for a Dual Honours degree, or may choose to specialise solely in Geology or Physical Geography in their final year.

Geology and Applied Environmental Science

This is a logical and popular subject combination at Keele. The World's environment is currently at the forefront of public interest and concern. Applied Environmental Science is concerned with understanding how the environment functions and how both naturally occurring phenomena and human activities are resulting in environmental change. To appreciate the issues involved, the Applied Environmental Science course provides a multidisciplinary scientific understanding balanced with knowledge of the social factors underpinning our relationship with the natural environment. Significant portions of the Geology course are devoted to understanding the causes and results of environmental change. This forms a core component of modern geological science and integrates seamlessly with topics such as people and the environment, environmental management, global climate change and clean technology, which are taught as part of the Applied Environmental Science course. Both Geology and Applied Environmental Science place significant emphasis on learning and teaching through field courses, where students gain valuable hands-on experience.

See also: Geology and Astrophysics, page 63.

Membership of professional institutions

Graduates in Geology who take either Major or Dual Honours routes are eligible for Fellowship of the Geological Society of London. The MGeoscience course is the appropriate pathway for those seeking Chartered Geologist (CGeol) and European Geologist (EurGeol) status. Keele Geology degrees combining the most popular subject combinations, including Geology and Physical Geography, are accredited by the Geological Society of London, a professional independent body.

Point of pride

Students choose either Geological Mapping in the mountains of Cantabria, Spain or a Geophysical Surveying in the fells of the Lake District in the summer between their second and third years.

Geoscience

Course: Single Honours, Major, Undergraduate, Masters

Entry requirements: See page 283–292

Approximate intake in 2013: 25

Study abroad: Yes

UCAS Single Honours programmes

F642 Geoscience

F640 MGeoscience (Major). Please indicate your choice of second science subject for the first and second years (indicated in the Dual Honours list with*) in the 'further information' section of your UCAS form.

F64G Single Honours MGeoscience

F646 Geoscience with Science Foundation Year. This four-year degree course is designed for students who wish to study Geoscience but lack the necessary background qualifications. See page 273.

Further information is also available at www.keele.ac.uk/eesg/applicants/geoscience/



The course offers

- An innovative and interdisciplinary study covering Geology, Geochemistry and Geophysics
- No previous knowledge of Geoscience subjects, such as Geology, required
- A wide range of career options and a wealth of job opportunities
- Development of field, laboratory presentational and computing skills to provide an appropriate knowledge base for a range of careers in the academic world, the public sector or industry
- Fully integrated fieldwork programme, including overseas field courses and opportunities for independent study through research projects and fieldwork exercises
- Modern laboratories and computing facilities running specialist Geoscience software

Geoscience is both a fascinating and very much an interdisciplinary concept that is mainly based on the integration of knowledge from Geology, Geophysics and Geochemistry. The Keele Single Honours Geoscience course provides a modern approach to the study of the Earth: its structure, composition, processes, history and its mineral and energy resources. The course also places emphasis on the relevance of Geoscience to the needs of society, including the search for natural resources such as oil, coal, minerals, aggregates and water, as well as the increasing importance of the application of environmental and engineering geoscience within our industrialised society.

Point of pride

Twelve day geoscience field course to Utah, USA.

Course content

The Geoscience degree programme at Keele is based on a Single Honours structure. It is mainly designed for those students who want to focus on Geology-based topics for the three years of their undergraduate degree studies, as opposed to studying two subjects under the Dual Honours degree scheme.

Year 1

The first year lays the foundations for detailed study of Geoscience concepts in the second and third years. It will be assumed that students have no previous knowledge of Geoscience subjects such as Geology; the course will begin from basics in order to promote a smooth transition for new students into their university studies. Students take the following seven Geoscience modules:

Planet Earth introduces the Earth as a planet, geological processes such as plate tectonics, and how these processes relate to geological features such as volcanoes, earthquakes and tsunamis. These geological processes and features are compared with those on other planets.

Rocks, Minerals and Fossils provides an introduction to common rock-forming minerals, as well as igneous, sedimentary and metamorphic rocks in hand specimens. The major fossil groups are also studied, including trilobites, graptolites, ammonites, corals and dinosaurs.

Rocks - Up Close develops understanding of the formation and classification of different rock types by examination using a petrological microscope.

Time and Space provides an introduction to Earth time and Earth history. It covers stratigraphic principles and the geological evolution of Europe. It also introduces geological structures and the interpretation of geological maps.

The Earth System focuses on interactions between the solid Earth, the oceans, the atmosphere, the biosphere and the societal system in terms of explaining past, present and possible future changes on Earth (e.g. climate change, mass extinctions, etc.).

Introductory Environmental Chemistry aims to introduce core concepts in Chemistry applicable to the Environmental Sciences and Geochemistry.

Geoscience Data Interpretation, Analysis and Visualisation provides an introduction to geophysical, remote sensing, geographical/geological information system (GIS) techniques for the handling of a variety of geoscience data.

Students have a free choice of one of the free-standing elective modules offered by all faculties within the University. An elective module is offered to provide compatibility with part of the University's philosophy for undergraduate education, which is broad-based rather than over-specialised.

Year 2

Particular attention will be paid to first-hand observation, recording and interpretation of Geoscience phenomena in the field and laboratory. By the end of the second year, students will have been given a complete grounding in Geoscience that will allow them to carry out their own independent studies. Students will take the following eight geoscience modules:

Igneous and Metamorphic Petrology studies the nature of igneous bodies and the processes of the formation of igneous rocks. Studies of metamorphic minerals and textures are described in the context of regional, contact and dynamic metamorphism.

Reconstructing Past Environments demonstrates how the geomorphology of ancient sedimentary environments can be reconstructed from evidence in the rock record and from using equivalent modern environments as a template.

Geoscience and Society aims to develop an awareness of the essential contributions of Geoscience to the economic, environmental and cultural needs of society. It provides an understanding of issues such as geology and health, resource depletion and alternative sources of energy.

Palaeoclimatology and Quaternary Studies includes the study of recent deposits and how they can be interpreted to understand the processes that caused their formation, as well as understanding them as indicators of palaeoenvironmental conditions. It also covers the occurrence of, evidence for, and possible causes of climate change over geological time.

Advanced Geoscience Data Interpretation, Analysis and Visualisation provides advanced knowledge and understanding of applied geophysics, GIS and computer-aided/digital mapping.

Environmental Analytical Methods provides an understanding and technical appreciation of the process and application of a range of analytical techniques relevant to the analysis of the composition of different environmental media, including soil, water and vegetation.

Advanced Structural Geology and Geological Mapping Training, in the **Structural Geology** component of the module, students investigate the behaviour of rocks when deformed and the methods used to study their deformation. The practical classes place emphasis on the use of computing techniques for structural analysis and visualisation, including the use of Geographical/Geological Information Systems (GIS). The **Geological Mapping Training** part of the module is mainly based on a residential field course that takes place immediately before the start of the second year and covers the techniques used to make a geological map.

Geoscience Field Techniques has a number of aims, including an introduction to the key concepts in near-surface geophysics, the demonstration in the field of the structure and development of a major overseas geological province, and to prepare students with appropriate background knowledge to carry out their final year independent field project.

Year 3

The third year involves a combination of compulsory and option modules. All students complete an independent field project, a core module on **Economic Geology** and attend an advanced field course. Students select four course-specific option modules (see below) that are designed to provide in-depth coverage of a particular Geoscience topic. Much of the content of these Level 3 option modules is based on research at the forefront of the discipline and helps strengthen links between teaching and research.

Option modules

- *Advanced Topics in Sedimentology*
- *Glaciers and Glacial Geomorphology*
- *Structure and Geodynamics*
- *Natural Hazards*
- *Exploration Geophysics for the Hydrocarbon Industry*
- *Global Environmental Change*
- *Water Resources*
- *Hydrological and Engineering Geology*
- *Volcanic and Magmatic Processes*
- *Micropalaeontology*
- *Coastal Environments*
- *Applied Methods in the Environmental Sciences*

Geoscience



MGeoscience

MGeoscience at Keele is a four-year undergraduate Masters degree course for those students considering a specialist career in Earth sciences. Students who take the MGeoscience programme take all modules belonging to the three-year Geoscience programme. Alternatively, students can combine Dual Honours Geology modules with certain other subjects in the first two years (see page 151).

They then progress to a fourth year of study, the Masters-level year, that consists of an advanced research project, along with core modules based on the further development of computing skills, including web authoring and computer programming, and the development of a detailed literature synthesis on a Geoscience topic.

Research Project builds on subject-specific and other practical skills that have been developed in previous years of the course to carry out an advanced research investigation within an area of the Earth Sciences.

Literature Synthesis: students will carry out a detailed literature survey on a specific Earth Sciences topic and present the results from this exercise via a website. A series of practical classes are provided on web authoring.

Spatial Geoscience Data Analysis provides experience of a variety of up-to-date methodologies for the acquisition, analysis and visualisation of spatially distributed geological and geophysical data. This module also includes a five-day residential field course to North West England.

Fourth year MGeoscience students can also select option modules entitled **Programming Skills for Earth Scientists** and the **Evolution of Fossil Ecosystems**.

Fieldwork and opportunities to study abroad

Fieldwork is an essential part of a geoscientist's training and is intended to supplement formal class teaching and to develop the skills of observing and recording. It also provides valuable social and cultural experience outside the university environment. The Geoscience programme includes field excursions to classic geological areas within the British Isles.

In addition, overseas field courses enable students to study the evolution of fundamentally different geological regimes. The field course programme consists of:

- **First year:** five one-day field excursions, introducing the study of rocks, geological map making and museum fossil collections. A six-day residential field course to Pembrokeshire brings together a number of important Geoscience concepts.
- **Second year:** a week-long residential field course in Snowdonia, North Wales covering detailed training in mapping techniques. There is also a 12-day overseas field course to western USA where field experience is extended by studying a variety of superbly exposed rocks, illustrating phenomena not available in the UK. In addition, there is a one-day field course that focuses on sedimentological techniques and a field excursion involving the study of recent deposits.
- **Third year:** all students are expected to undertake an individual field-based project. There is also a compulsory one-week field course to western Scotland that focuses on advanced petrology and structural geology. Additional field experience is provided by specialised field courses attached to option modules; for example, a 10-day field course to southern Italy is available to those students who take the option module *Volcanic and Magmatic Processes*.

Students who wish to undertake fieldwork overseas are encouraged to do so. Students who are interested in exchanges as part of the University's Study Abroad programme are encouraged to spend a semester during the second year at one of our overseas partner institutions in Iceland, the US, Canada, etc.

Teaching and assessment

Each taught module normally lasts for 10 to 12 weeks, and typically involves two lectures and a three-hour practical class each week. Students will be allocated a personal tutor for the duration of their study. The role of the personal tutor is to meet formally with students to discuss progress and performance, and to offer support and advice. A number of field courses of varying length are integrated into the teaching programme to provide first-hand experience of Geoscience phenomena.

Skills and careers

The interdisciplinary nature of Geoscience means that a sound training will be given in Geology, Geophysics and Geochemistry, as well as aspects of Physical Geography, Environmental Science, Chemistry, remote sensing and GIS. In addition to the subject-specific skills acquired on the course, training is also given in IT, report writing and oral presentation skills. The nature of Geoscience promotes the development of logical, deductive reasoning and problem-solving skills that employers value. Graduates from the course will be suitably qualified for a variety of Geoscience careers, including employment destinations in geological surveys, environmental and geological consultancy companies, water authorities, land management and planning companies, the oil and gas industry and the mining and quarrying industry. There is a wealth of job opportunities in these areas at present and the demand for Geoscience graduates is likely to continue into the foreseeable future. The course also provides an excellent background for those students who wish to progress to postgraduate Master's courses or to PhD research.

“I chose Geoscience because I wanted to further my understanding of the Earth and how its processes have relevance to today's society. The course also provides an ideal opportunity to combine my degree studies with my passion for travel and the outdoors.”

History

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283-292

Approximate intake in 2013: 100

Study abroad: Yes

UCAS Single Honours programme

V101 History

UCAS Dual Honours combinations

NV41 Accounting
TV71 American Studies
FV71 Applied Environmental Science
CV8C Applied Psychology
FV51 Astrophysics
CV71 Biochemistry
NV91 Business Management
FV11 Chemistry
GV41 Computer Science
GV4C Creative Computing
MVX1 Criminology
LV11 Economics
VX13 Educational Studies
QV31 English
PV3C Film Studies
NV31 Finance
FV41 Forensic Science
LV71 Geography
FV61 Geology
VL17 Human Geography
NV61 Human Resource Management
VG15 Information Systems
LVF1 International Relations
MV11 Law
GV11 Mathematics
PV31 Media, Communications and Culture
FVD1 Medicinal Chemistry
VW13 Music
WV31 Music Technology
VV15 Philosophy
FV81 Physical Geography
FV31 Physics
LV21 Politics
CV81 Psychology
GV71 Smart Systems
V100 **History (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.

VV10 **History with Humanities Foundation Year.** This four-year degree course is designed for students who wish to study History but lack the necessary background qualifications. See page 271.



The course offers

- **The opportunity to study a broad range of themes – political, social and cultural – from around 400AD to the present day**
- **Teaching by eminent and accessible scholars with wide-ranging and internationally recognised expertise**
- **An exciting and challenging programme offering a balance between deepening historical knowledge and developing transferable skills and group work**
- **An opportunity to study abroad in the second year and to carry out work or school-based research placements**
- **Assessment not just by traditional examinations and coursework essays, but also a personal project in the second year and an independently researched final year dissertation**
- **The opportunity to develop intellectual skills, such as effective reading, note taking and the interpretation and comparison of information from a broad range of sources, and the ability to construct a historical argument and to present this coherently and elegantly with the appropriate supporting evidence**

There is nothing dead about history. It is not just about understanding the past, but about looking beneath the surface of our world and coming to understand the forces which shape it, from economic and social evolution to the interaction of individuals and cultures. Keele's historians have a world-class expertise in a wide range of fields, from Anglo-Saxon Britain to 20th-century Africa, from religion to women's politics. They share a genuine passion for their subject and the continual mission of exploration and explanation it involves.

Course content

Year 1

The narrow specialisms of A-level are challenged in a course which covers Europe and the wider world from 400AD to the present day, and which explores how past processes shape the present. In the Autumn Semester you will take **Historical Research and Writing**, a groundbreaking module that provides integrated training in the historical skills needed for the second and third years of study. You can also choose to study **Princes and Peoples: Early Modern Europe** and/or **The History and Culture of Staffordshire** and/or **Early Medieval Britain**. In the Spring Semester you will take either or both **Medieval Europe** or **Modern History**, providing a comprehensive foundation to the key events and debates of European and global history from the 11th century. You will also have the chance to take a wide range of optional modules, such as **History, Media, Memory: the Presentation of the Past in Contemporary Culture**. These typically involve 10 lectures, 10 small-group seminars and one-to-one feedback meetings.

We also encourage you to look at relevant options offered by companion programmes, such as International Relations or American Studies.

Study Abroad

Many historians choose to spend one semester of their second year studying at one of our partner universities in the USA, Canada, South Africa, Asia, Europe or Australia.

Year 2

Second year courses provide a more detailed understanding of specific periods or particular themes, while developing both the critical and the practical skills that historians need for research. You will take at least two modules, one of which – **Sources and Debates** – involves writing an extended essay on a key problem or controversy in historical studies which you will have chosen from a wide range of topics such as early modern witchcraft, the Rwandan genocide or everyday life in Britain (1850-1950).

Other modules are chosen from a range of options; each consists of a series of 10 lectures, seven seminars and a one-to-one essay feedback meeting.

Typical pre-1750 modules include:

- *The Normans in Europe*
- *Saints and Society in Medieval Europe*

- *Protest, Rebellion and Revolution in Europe c.1525-c.1640*
- *State and Empire in Britain c.1530-c.1720*

Typical post-1750 modules include:

- *Power and the Modern World*
- *Issues in Women's History*
- *Imperialism*
- *Victorian Society*
- *Africa Since 1800*
- *The Holocaust*
- *Right-wing Movements in Inter-War Europe*

You will also have an opportunity to choose a limited number of approved modules offered by other subject areas, such as Criminology, Politics and American Studies.

Year 3

You sharpen your focus and deepen your knowledge as you apply the skills developed in the past two years in original historical research. While you can choose just how in-depth you want to make your commitment to History, you will take at least two modules in a special subject – a detailed study, based on original sources, of a sharply defined period or topic. A typical range of options would include:

- *The Making of Contemporary Africa*
- *Suffrage Stories: life stories and representations*
- *The English Civil Wars*
- *Women in Early Modern England*
- *Encountering the Other: Genocide, Tolerance and the European Perspective*
- *The Kingship of Edward II*
- *Revolution, War and Terror in France, 1789-1804*
- *Health, Illness and Medicine in England, 1628-1858*
- *German Occupation Policy 1938-1945*
- *The Partition of India*
- *A Cultural History of Water*

Linked to this is an optional extended piece of original historical research undertaken with your tutor's supervision, whether an extended essay or a more substantial dissertation. We strongly encourage our students to undertake a dissertation. For many students the dissertation is the highlight of the degree course, and several are inspired to carry on to postgraduate research. Some dissertations have been so good that they have later been published.

Point of pride

Keele History is small enough for you to know all the teaching staff and big enough to focus on an extensive range of times, places and approaches in its History teaching.

History



Teaching and assessment

First and second year teaching is based on a mixture of lectures designed to introduce students to the broad themes of module and group teaching in seminars of 10-15 students in which students will deepen their knowledge and understanding through discussions led by a staff tutor. One-to-one consultations and feedback sessions are also part of the programme to help students develop coursework skills. Third year teaching consists almost exclusively of seminars, as well as individual supervision for dissertations. Assessment is by a combination of written examinations and continuous assessment, including coursework essays, portfolios of shorter assignments, class participation and the dissertation. We also make extensive use of web-based tools to support personal learning. As teachers, 89% of our students were more than satisfied with our work in the 2009 national student survey.

Skills and careers

Most historians do not use their historical knowledge directly in their future careers, but are often surprised by just how well trained and employable they have become. Our graduates have a very good employment rate precisely because, in addition to the deeper understanding of the past and present they have gained, the skills of a good historian are applicable in a very wide range of future careers. Students will have spent three years analysing complex situations, evaluating evidence that is often biased or partial, and constructing, presenting and defending their own arguments both orally and in writing, individually and as part of a team.

Many employers recognise the value of these transferable skills. Within six months of leaving, 96% of Keele University History graduates are in full time employment or further study – well above the national average. They may have begun Master's or teaching courses, embarked on careers in local and central government, industry, graduate-level management positions or the service sector.

Others, of course, stayed with the subject, becoming teachers, going into postgraduate research (some of our staff originally studied here) or otherwise becoming professional historians.

Viewed over the longer term, the evidence shows that studying history opens a surprising number of doors. Amongst our History alumni we have the founder

of Eye Independent Films, chairman of the Association of Preservation Trusts, an Assistant Director of the British Council, a Permanent Secretary in the Civil Service, Chairman of a brewery, many barristers, Secretary General of a Trade Union, a Director of Education, Head of the Press Office at ITN, merchant bankers, a Prison Governor, accountants, publishers, journalists, industrialists, playwrights, a minister in the government of Gibraltar, head of a Cambridge College and the first Scottish female Vice-Chancellor.

The evidence is that Keele historians are well adapted to meet the changing challenges of the employment market and this almost certainly reflects the advantages of having read Dual Honours at a well-reputed institution of higher education.

Some more ideas...

History and English

It is possible to construct a programme of closely related modules in these two subjects, studying Byron and Dickens in English alongside History courses on Victorian Britain, or combining study of Milton and Bunyan with the Reformation or the English Civil War. Knowledge of the historical context enriches understanding of literature while a critical appreciation of the literature or film of a period adds another dimension to historical analysis. It is possible to take courses dealing with similar themes – revolution, religion, the experience of women – and explore the contrasting approaches of literary scholars and historians. Members of staff in English and History co-operate in a graduate programme in Victorian studies, and in seminars and research projects in early modern English History and in Life-writing. English and History is a very useful pairing for students intending to teach. The critical and analytical skills, breadth of knowledge and the insights into a variety of human experience fostered in both disciplines fit students for a variety of careers in the expanding cultural and heritage sectors.

See also: History and Human Geography, page 143; History and Politics, page 243.

Human Resource Management

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 80

Study abroad: Yes

UCAS	Dual Honours combinations
NN46	Accounting
NT67	American Studies
FN76	Applied Environmental Science
CN8P	Applied Psychology
FN56	Astrophysics
CN16	Biology
NN69	Business Management
FN16	Chemistry
GN46	Computer Science
GN4P	Creative Computing
LN16	Economics
NX63	Educational Studies
PN3P	Film Studies
NN36	Finance
LN76	Geography
NV61	History
CN1P	Human Biology
LNR6	Human Geography
NG64	Information Systems
NN61	International Business
LNF6	International Relations
MN16	Law
NN65	Marketing
PN36	Media, Communications and Culture
FNC6	Medicinal Chemistry
NW63	Music
BN16	Neuroscience
NV65	Philosophy
FN86	Physical Geography
FN36	Physics
CN86	Psychology
GN76	Smart Systems
LN36	Sociology
N6L3	Human Resource Management with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Human Resource Management but lack the necessary background qualifications. See page 275.



The course offers

- An interdisciplinary approach providing a study of human resource management and industrial relations which is relevant to the working environment
- A critical approach to the subject which is stimulating and engaging
- Good opportunities for employment and postgraduate study for our graduates

The teaching and research conducted by staff embrace all aspects of the subject: personnel management, discrimination, work organisation, payment systems, trade unions, employers, private and public sectors, specific industries (for example finance, car manufacture), the economy, law, and government policy. This is located within an international and European context.

The course provides one of the few opportunities in the UK to study these subjects in-depth at undergraduate level. In combination with other Principal courses, and through the electives offered, it establishes a knowledge and skills base for scientists and social scientists who wish to seek a career not only in personnel management or industrial relations but also in general management or administration.

All staff are active researchers and publish a twice-yearly journal, *Historical Studies in Industrial Relations*, as well as delivering a popular postgraduate programme.

Course content

Year 1

An insight into the nature and scope of Management and Human Resource Management is provided and the following core modules are taken:

Management in Context provides an introduction to management and organisations, and places them in an historical, political and economic context.

Foundations of Human Resource Management explores the nature of the employment relationship from an historical perspective identifying the principal theoretical bases for understanding the development of Human Resource Management.

Modules can also be taken from a range of electives, including:

- *Markets and Hierarchies*
- *Accounting Principles*
- *Marketing Principles*
- *Business Law*
- *Globalisation*
- *Quantitative Methods*
- *Financial and Management Accounting*

Year 2

Knowledge is deepened by examining the key issues affecting human resources (HR) professionals. The following core modules are taken:

Workforce Planning explores the theory and practice of employee resourcing, retention and associated managerial practices.

Managing Human Resources is central to the study of Human Resource Management covering: the process for resolving disciplinary cases and grievances, flexibility, performance management and issues of employee representation, participation and involvement – issues and processes crucial to professional HR practice.

Modules can also be taken from a range of electives, including:

- *Industrial Relations*
- *Pay and Performance*
- *International Human Resource Management*
- *Organisational Behaviour*

Year 3

Two core modules are studied:

The Employment Relationship and the Law encourages you to critically analyse the changing role, values and limits of the law in industrial relations and HR management.

In Semester 2, students choose one of two optional core modules: **Strategic Human Resource Management** encourages you to critically examine the idea of Human Resource Management as a strategic function and gives an overview of new forms of work organisation and employment. **Discrimination and Equal Opportunities at Work** is a rich and challenging module, which places the promotion of equality at work in its economic and social context, and discusses how real change may, or may not be made.

Modules can also be taken from a range of electives, including:

- *Employee Development*
- *Contemporary Issues in Management*

The HRM course offers an Independent Study module, **Global Labour Regulation**. This module delivers teaching on current themes and issues in the international and European Union aspects of the regulation of labour. Students then undertake deeper independent study on a theme chosen from the lecture programme topics.

Study abroad

The Management School is keen to promote the opportunity for students to spend a semester studying Human Resource Management at a partner institution in the EU, Australia or North America. Students study abroad for either the first or second semester in their second year and take a series of modules at the partner university that are equivalent to those at Keele. Keele International's Study Abroad Office oversees the process and offers excellent support for students both as they prepare for their trip and while they are away.

For more information go to: www.keele.ac.uk/studyabroad/

Teaching and assessment

Teaching is by a combination of lectures, classes, and supervised individual and group work. While we focus on the development of written communication skills throughout the course, we pay attention to the development of skills that students will need in whatever career they might pursue after graduating. This includes the development of communication, presentation and teamworking skills in classes.

Skills and careers

The course promotes, within a social sciences framework, a critical awareness of the interests, motives and rights of the parties to the employment relationship. In addition to focusing on substantive issues, tutorials seek to develop presentation and groupwork skills.

Point of pride

The course achieved a 100% student satisfaction in the NSS Survey 2011.

Human Resource Management



Some more ideas...

Human Resource Management and Sociology

By combining Human Resource Management with Sociology, students will strengthen their understanding of the impact the employment relationship has on contemporary society. This includes a study of how people behave in the employment setting – as managers, as workers and as representatives. Through this combination, students will be able to link issues such as class, gender and racism to employment, and will be more aware of the ways that conflict in the workplace is linked to conflict in the wider society. The combination provides enhanced opportunities for students considering career options in the public, private and voluntary sectors, giving students a broad understanding of work, employment, management and society more generally.

Human Resource Management and Psychology

The combination of Human Resource Management with Psychology presents students with the opportunity to develop their understanding of the behaviour of the individual at work. This applies particularly to such issues as employee motivation, job satisfaction, payment systems, disciplinary action, training and development and workplace health and safety.

Human Resource Management provides an important outlet for practical application of the knowledge and skills gained through the study of Psychology. This combination is particularly appropriate for students considering careers in management or in any other field where an understanding of human behaviour is important.

Human Resource Management and Law

The combination of Human Resource Management with Law provides the opportunity to focus on the regulation of industry and the parties to the employment relationship. While Human Resource Management directs students to a consideration of the employment relationship and offers the opportunity to study employment law, combining this discipline with Law offers scope for specialism in areas of industrial, corporate or employment law. The study of discrimination and equal opportunities in employment is also complemented by aspects of Law including discrimination law, social policy and European equality directives. This combination would be particularly appropriate for students considering careers in employment law and related areas.

See also: [Human Resource Management and International Business, page 167.](#)



International Business

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 50

Study abroad: Yes

UCAS Dual Honours combinations

NN41	Accounting
TN71	American Studies
CN81	Applied Psychology
FN51	Astrophysics
CN71	Biochemistry
FN11	Chemistry
GN41	Computer Science
GN4C	Creative Computing
MN91	Criminology
LN11	Economics
XN31	Educational Studies
QN31	English
PN3C	Film Studies
NN31	Finance
FN41	Forensic Science
LN71	Geography
FN61	Geology
LN7C	Human Geography
NN61	Human Resource Management
GN51	Information Systems
NL12	International Relations
NM11	Law
NN15	Marketing
NG11	Mathematics
NP13	Media, Communications and Culture
NF11	Medicinal Chemistry
NJ19	Music Technology
NF18	Physical Geography
NF13	Physics
NL1F	Politics
NC18	Psychology
NG17	Smart Systems
N1L3	International Business with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study International Business but lack the necessary background qualifications. See page 275.



The course offers

International Business is a new undergraduate programme. The programme at Keele offers an authentic blend of management knowledge and methods designed to give students opportunities in the highly competitive world of business. The programme draws on seminal thinkers, practitioners and world famous companies and industries.

International Business at Keele has a distinctive approach to teaching and research, believing that the most productive way of studying the subject is to take a critical perspective on organisations, along with a thorough exploration of the ‘nuts and bolts’ of fundamental business skills and knowledge. For this reason, our teaching and research moves between the basic techniques and practices used in particular functions of management and reflects a concern to understand these techniques within their historical and cultural contexts. We believe that it is important to think about and debate not just technical issues, but also social trends, cultural location and ethical issues. We encourage our students to engage critically with management practice in a way that is grounded in a thorough appreciation of the mechanics of contemporary organisations. We try to foster creative and analytical thinking with the belief that business and organisational futures can only be realised by considering the wider issues raised by current practice.

Course content

Year 1

Two core modules are taken:

Management in Context provides an introduction to management and organisations, and places them in an historical, political and economic context.

Globalisation introduces the global business environment focusing on the operations of international businesses and the global market framework in which they operate.

Modules can also be taken from a range of electives (variable), including:

- *Accounting Principles*
- *Markets and Hierarchies*
- *Business Law*
- *Foundations of Human Resource Management*
- *Marketing Principles*
- *Financial and Management Accounting*
- *Quantitative Methods*

Year 2

Basic knowledge gained in the first year is built on, by taking the following core modules:

Organisational Behaviour explores theoretical insights as they have developed in relation to organisations and management. It examines the way in which people behave and interact as members of a business or other organisation.

Operations and Quality Management encourages you to explore key quality concepts and techniques within specific organisational contexts and to consider why quality is crucial to organisational success.

Modules can also be taken from a range of electives (variable), including:

- *Social Theory at Work*
- *Critical Perspectives on Management Research*
- *Corporate Social Responsibility*
- *International Human Resource Management*
- *Research Methods*

Year 3

Two core modules are taken:

Business Strategy examines the formation of organisation strategies, placing emphasis on the idea of ‘thinking strategically’ at the industry level.

International Business Strategy examines the wider influence of business internationalisation on societies, regions and nation states.

Modules can also be taken from a range of electives (variable), including:

- *Global Labour Regulation*
- *Comparative Business Cultures*
- *Global Marketing Decisions*
- *Global Business Analysis*
- *Independent Study Project I & II*

Study abroad and modern languages

The Management School is keen to promote the opportunity for students to spend a semester studying at a partner institution in Europe, Asia, South Africa, Australia or North America. Students study abroad during either the first or second semester in their second year and take a series of modules at the partner university that are equivalent to those at Keele. Keele International's Study Abroad Office oversees the process and offers excellent support for students both as they prepare for their study period and while they are away.

We also encourage students considering studying International Business to learn or extend their knowledge of modern languages through the wide range of language electives available to students in each year of their studies. For further information see: www.keele.ac.uk/llu/

Teaching and assessment

Teaching is by a combination of lectures, classes and supervised individual and group work. Throughout the course, we pay attention to the development of skills that students will need in whatever career they might pursue after graduating. This includes the development of communication and presentation skills in classes, while through group work students will develop the ability to work as part of a team.

Skills and careers

As well as providing an intellectually stimulating course of study, the International Business programme will equip students with leading-edge skills and knowledge that will be of practical use in their future careers.

Point of pride

We offer the opportunity for you to continue your studies with us in International Business by following our Masters programme in which you will have the opportunity to choose an internship in place of your dissertation thereby enhancing your future employment prospects.

International Business



Some more ideas...

International Business and Human Resource Management

The International Business and Human Resource Management degree provides a strong grounding in the multiple disciplines that inform the social sciences, drawing on perspectives – from Sociology and Psychology to History and Philosophy – to promote a critical understanding of organisational and employment practices both on a national and global scale. Students will also be encouraged to reflect on the social, historical, global, cultural and ethical factors pertaining to employment and management practices. The two subjects complement each other well in that they not only reinforce an understanding of the social sciences, but also encourage students to examine organisations from the perspective of various parties that include trade unions, different groups of employees, customers, managers and shareholders. While the Human Resource Management part of the degree develops a thorough understanding of the wide range of issues pertaining to the employment relationships, the International Business part of the course will enable students to place this understanding within the broader context of global organisational theories and practices.

This combination will be attractive to those with a particular interest in the management of people in organisations and, through the Human Resource Management part of the degree, students will receive exemption for the core Management qualification of the Institute of Personnel Development.

International Business and Finance

The International Business and Finance degree will enable students to work across disciplines and combines a good grounding in the social sciences.

As such, it is reflective of the breadth of knowledge and understanding that Keele University seeks to promote, and will equip students with a wide range of skills and theoretical perspectives relevant for the understanding of finance and organisations at both national and international level. The Finance part of the course draws on accounting

techniques and economic theories to provide students with a thorough understanding of the working of financial markets and their connection to the wider global economy.

The International Business part of the course will enable students to situate their understanding of Finance and Economics within broader global, organisational, historical and social contexts, as well as comparing financial and economic perspectives with theoretical perspectives developed within the social sciences. This combination will enable students not only to develop a broad range of skills, but also to examine organisations and markets, both national and global, from the perspectives of different stakeholders.

International Relations

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 90

Study abroad: Yes

UCAS	Single Honours programmes
L254	International Relations
UCAS	Dual Honours combinations
NL42	Accounting
LTF7	American Studies
FLYF	Applied Environmental Science
CL72	Biochemistry
CLC2	Biology
LNF9	Business Management
FLD2	Chemistry
GLK2	Computer Science
GL4F	Creative Computing
ML92	Criminology
LLC2	Economics
LXF3	Educational Studies
LQF3	English
FL62	Geology
LVF1	History
CL1F	Human Biology
LNF6	Human Resource Management
LG24	Information Systems
NL12	International Business
LNF5	Marketing
GL12	Mathematics
PLH2	Media, Communications and Culture
FLCF	Medicinal Chemistry
LWG3	Music
LWF3	Music Technology
BLC2	Neuroscience
LVF5	Philosophy
L251	Politics
GL72	Smart Systems
LL3F	Sociology
L250	International Relations (Major). Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
L2L3	International Relations with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study International Relations but lack the necessary background qualifications. See page 275.



The course offers

- **The opportunity to study International Relations with a complementary subject and a wide range of options in the second and third year (including options in Politics)**
- **Special strengths in modern international ideas, nationalism, violence, security/ human security, human rights, global governance, the environment, the European Union and Eurasian studies**
- **A vibrant and innovative community of learning with a lively and friendly staff within the multi-disciplinary School of Politics, International Relations and Philosophy**
- **A learning experience underpinned by the latest academic thinking and research led by distinguished scholars**
- **One-to-one supervision of independent research towards a final year dissertation**
- **The opportunity to study abroad in the second year to benefit from another culture and a different educational experience**
- **An exciting range of co-curricular pursuits including the Keele Model United Nations Society**

International Relations is not merely the study of current affairs or foreign lands; it is a distinctive way of looking at the social and human world around us. The International Relations degree programmes at Keele, historically informed, dynamic and forward-looking, offer a sophisticated grasp of key features and trends in international relations, as well as a range of analytical skills to help students interpret and explain the processes at work, and will enable students to deepen their understanding of unfolding events. In a world of complex interdependence, such skills are of increasing relevance to many areas of business, industry and government.

International Relations is studied either as a Single Honours course, allowing students to specialise through a purpose-built interdisciplinary degree, or as part of a Dual Honours degree in combination with a wide range of subjects such as Politics, History, Criminology or Economics.

Course content

Year 1

You are introduced to basic concepts in the study of International Relations through core modules. The two compulsory core modules for Dual Honours are:

- *Introduction to International Relations*
- *Introduction to Global Politics*

Single Honours students must also take:

- *Making and Shaping Foreign Policy*
- *The Changing World: A History of International Relations since 1945*

Elective modules

Dual Honours students choose two elective modules from any subjects in the University. Single Honours students choose four electives.

Electives may be chosen from the following options:

- *British Politics Since 1945*
- *Justice, Authority and Power*
- *Debates in American Politics*
- *Mass Media in America*
- *Why Politics Matters*
- *Making and Shaping Foreign Policy*
- *The Changing World: A History of International Relations since 1945*

Year 2

Dual Honours and Single Honours students take two compulsory core modules:

- *Contemporary International Relations Theory*
- *Peace, Conflict and Security*

Dual Honours students also take at least one and Single Honours students take at least two optional core modules in International Relations:

- *International Relations of the Environment*
- *The United Nations in World Politics*
- *International Relations of Eurasia*
- *The European Union*
- *Global Political Economy*

“Keele offers a real package. Everything you would possibly need is on campus, and the ‘village’ atmosphere is such that you will always bump into someone you know. Student facilities are great, and the student scene will mean you never find yourself bored. University is what you make of it – the more you put in, the more you get out. Joining SPIRE will provide you with the basis for a stimulating, challenging three years of undergraduate studies. You will be taught by experts in their field, and often you will be exposed to new ideas. Support for students – academic and personal – is excellent.”

Duncan Weaver,
BA (Hons) International Relations and Politics (2010).

International Relations

Year 3

Dual Honours students take at least two and Single Honours take at least four approved electives in International Relations. International Relations modules in the third year relate to the research interests of the staff and current modules include:

- *Arms Control*
- *British State and Society During the Cold War*
- *The Missing Dimension: Intelligence in International Relations*
- *Policing International Order*
- *Politics and International Relations of the Middle East*
- *Proliferation*
- *Risk, Security and Liberal Governance*
- *The Global South*
- *The Northern Dimension*
- *Sport in Global Politics*

Teaching and assessment

Most modules are taught through a combination of lectures and seminars. Lectures are designed to move beyond the basic texts and to encourage critical assessment of conflicting views and theories. In seminars, small groups of students take part in discussions and debates facilitated by lecturers and professors. The School guarantees all first year students an hour per week of small-group teaching on all International Relations modules. Our teaching focuses on developing students' potential for independent thought and intellectual creativity. The use of a range of information and communication technologies is integrated into the programme, as is the development of written and oral communication skills.

Some modules are assessed through a combination of coursework and examination, some are assessed only on written coursework, while in other modules oral presentations and other types of seminar contributions are formally assessed. Our staff have wide-ranging and cutting-edge research interests, which means academic research informs and ignites our teaching.

Student life

The School is committed to building a diverse and dynamic community to ensure that students explore their interests, learn from each others' experiences, and participate in academic and co-curricular activities outside the classroom. We pride ourselves on our friendly and informal approach. Students are represented on all the major SPIRE academic committees. Staff take pride in being responsive to student feedback through our Staff-Student Liaison Committee and the annual student evaluation of all modules.

There are also many co-curricular activities at Keele that offer opportunities for students to enrich their understanding of International Relations, such as the Keele Politics Society and the Keele Model United Nations Society. Keele has a long history of despatching delegations to represent a country at the Harvard University World Model United Nations, which is the largest and most prestigious simulation of multilateral diplomacy in the world.

“SPIRE provided me with an excellent platform upon which to further my academic career. The variation in forms of assessment that were on offer in SPIRE ensured that I became proficient in not only essay writing and examination prep, but also in individual research and web design. Not to mention it was great fun to study there.”

Ollie Ringguth,
BA (Hons) International Relations (2010).

“Studying International Relations at Keele not only helped me to understand the theory, but also how it relates to real-life situations across the world. This was truly invaluable, and not something you get everywhere. My three years at Keele led to me working in the Middle East for a human rights organisation – something I never imagined I would be able to do. Great teaching, good facilities and interesting and relevant courses really set Keele apart.”

Oliver Williams,
BA (Hons) Criminology and International Relations (2008).

Some more ideas...

Skills and careers

The International Relations Dual and Single Honours degrees have an excellent reputation with employers throughout the UK and abroad, providing an intellectual training that is relevant to a variety of careers. The programmes are designed with a particular emphasis on encouraging students in the development of their communication, team working and leadership skills through giving oral and written presentations, through participating in seminar discussions and simulation exercises and through various co-curricular activities such as the Keele Model United Nations Society.

The knowledge and skills acquired during the courses are useful in many different fields and our graduates are to be found in a wide variety of careers, including the civil service, non-governmental organisations, teaching, business, finance, industry, the armed forces, publishing, journalism and social work. Some graduates go on to study for a Master's degree or a PhD. Most employers value an international awareness in their senior personnel. The ability to live, work and trade in an increasingly interconnected and global setting is becoming ever more important as traditional barriers are removed.

International Relations and American Studies

International Relations in recent years has been marked by the increasing influence of non-state actors such as firms or pressure groups in civil society. Nevertheless, states remain crucial players and the US is still one of the most influential. Students combining International Relations and American Studies can reinforce their knowledge of International Relations with a specialised knowledge of this global superpower.

International Relations and Politics

International Relations and Politics are closely related, sharing several important concepts and many practical concerns, such as global inequality, climate change, globalisation, human rights and security. Both disciplines address issues concerning government, power, justice and the future of political community at various levels.

See also: [Politics](#), page 243.

Point of pride

International Relations is part of SPIRE, which is the largest and most unique multidisciplinary school of its kind in the UK.

Law

Course: Single Honours, Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 200

Study abroad: Yes

UCAS Single Honours programmes

M100	Law
M1LH	Law with Criminology
M1L2	Law with Politics
UCAS Dual Honours combinations	
NM41	Accounting
MT17	American Studies
FMX1	Applied Environmental Science
CM71	Biochemistry
CM11	Biology
MN19	Business Management
FM11	Chemistry
GM41	Computer Science
GM4C	Creative Computing
M930	Criminology
LM11	Economics
MX13	Educational Studies
MQ13	English
FM61	Geology
MV11	History
CM1C	Human Biology
MN16	Human Resource Management
MG14	Information Systems
NM11	International Business
MN15	Marketing
GM11	Mathematics
PM31	Media, Communications and Culture
FMCC	Medicinal Chemistry
MW13	Music
MWD3	Music Technology
BM11	Neuroscience
MV15	Philosophy
LM21	Politics
GM71	Smart Systems
LM31	Sociology
M1L3	Law with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Law but lack the necessary background qualifications. See page 275.

M100 **LLB Single Honours Law** (Qualifying Law Degrees). Students will be required to study 30 credits from another subject for the first year.

The course offers

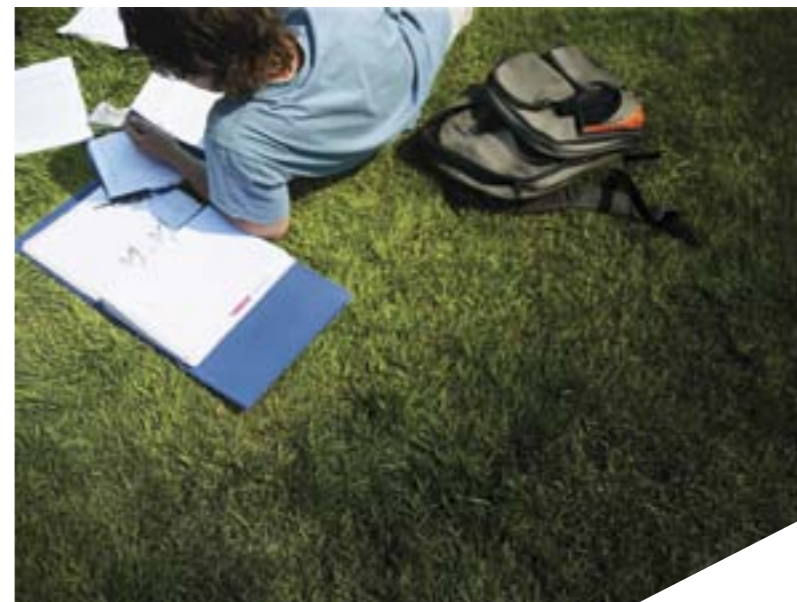
- Professional exemption pathways
 - Outward-looking degrees with interdisciplinary, professional and international engagements
 - Friendly and supportive staff
 - Excellence in research and teaching: the quality of our teaching was described as 'excellent' by external reviewers and we are rated as offering a 'highly distinctive programme' delivered by 'enthusiastic and well-qualified staff' (External Examiner). Work produced by Keele Law graduates is viewed as 'generally above the average for a UK Law School' (External Examiner)
- Keele Law School is known internationally for our outward-looking and distinctive Law degrees delivered in a supportive and dynamic learning environment. From a foundation in excellence in the core areas of Law, our undergraduate programmes enable students to engage with the Law beyond a narrow academic focus through:
- Interdisciplinary pathways to a qualifying Law degree, and a critical approach to the study of Law that places Law in its broad social, political, cultural and economic contexts within both core and elective modules
 - Engagement with community and professional partners through the core and co-curricular, and work with national and regional legal professionals (including our alumni) through formal activities such as mooting, client interviewing and broader networking events and opportunities
 - An international and outward-looking focus, through options to study abroad for a semester, to combine the study of Law with achieving a University Certificate in a modern language, and opportunities to study Law in its international contexts

From core modules such as Land Law, Equity and Crime, to exciting elective modules at Levels 2 and 3, students at Keele Law School learn from internationally recognised legal academics at the forefront of their discipline.

Keele Law School graduates will leave Keele with a distinctive set of attributes and capabilities. As well as a rigorous academic environment in which to learn, students have opportunities to participate in a wide range of co-curricular activities. These opportunities are designed to support the development of students' professional capabilities, and are facilitated through links with the national and regional legal profession. Keele Law School also hosts a Critical Lawyers' Group, which provides a forum for debating controversial legal issues, a Student Bar Society and a Student Law Society that organise social functions, law talks, visits to courts, law fairs, etc. The attributes of Keele graduates enable them to succeed in a variety of roles within the legal profession and in a range of other exciting careers.

In 2011, work began on a Moot Court facility within the School of Law. This is a high-specification learning environment, funded through the support of the University and our alumni, in order to assist students in the development of a range of academic and professional skills. We are proud of what this represents in terms of the strength of our alumni's continuing connection to Keele.

In every way, Keele Law School challenges students to make a difference in their careers.



Course content

Year 1

The Law part of the first year consists of six modules, all of which are compulsory. In the Autumn Semester all students take **Legal Skills**, which introduces essential skills and background knowledge, and includes sessions on IT skills, including how to use specialist law information-retrieval systems such as Lawtel and Westlaw. You will also take the first half of the **Tort Law** and **Public Law** modules.

The second parts of **Tort Law** and **Public Law** are taken in the Spring Semester alongside **Legal Systems**, which aims to deepen understanding of institutions, actors and processes of the English legal system within a social and political context.

At the end of the first year, you have the opportunity to apply to transfer onto a Dual Honours programme (subject to the agreement of the other School) if you decide that you no longer wish to obtain a degree that provides professional exemption from the academic stage of legal training – that is, you decide you no longer wish to follow a career as a solicitor or barrister after graduation. Criminology and Politics students have the additional opportunity of pursuing a qualifying Law degree programme with the continued study of those subjects.

Year 2

Core modules

Land Law 1 provides an introduction to the law of 'real' property.

Contract 1 concentrates on the formation and philosophical, social and economic basis of contracts.

Crime 1 deals with key elements of crime and the distinction between offences of intention and offences of recklessness.

In the Spring Semester students take:

Land Law 2 further develops analysis of the core principles of Land Law.

Contract 2 analyses the response of the law when contracts go wrong.

Crime 2 focuses on inchoate offences, offences against the person and property offences.

In addition to the compulsory modules, Single Honours Law students will be able to choose one 15-credit year Law option in each semester, from a range of second year electives potentially including **Law in Action** (involving work with external organisations), **Law, Science and Society, Lawyers in Society, Law and Ethics and Introduction to Public International Law**. The second year electives are a key dimension of the School's ambition and commitment to deliver a distinctive Single Honours Law degree that

retains breadth and interdisciplinarity as its hallmarks, alongside a renewed focus on legal knowledge and skills. These second year modules are explicitly designed to enable students to develop their existing skills through a broader focus on methodological and theoretical approaches.

Law with Politics/Criminology

Students following this pathway take the same compulsory subjects as Single Honours Law, except the optional 15 credits in each semester must be Law-related modules from Politics/Criminology.

Year 3

There are four compulsory modules and a range of optional modules available for Single Honours Law students. In the Autumn Semester, students take:

Law of the EU introduces key concepts of EU Law and the historical development of the EU.

Equity and Trusts 1 builds on the foundations laid by Land Law 1 and 2, examining the development and importance of equity and equitable principles.

In the Spring Semester, you take:

Law of the EU 2 focuses on specific aspects of EU law, using case studies on education, environment, health, labour and asylum.

Equity and Trusts 2 further analyses the operation of equitable principles in practice.

You also choose 30 credits in each semester from a range of Level 3 modules including, for example:

- *Business Leases*
- *Family Law*
- *Healthcare Law*
- *International Human Rights*
- *International Law, Globalisation and Environment*
- *Discrimination Law*
- *Sentencing*
- *Company Law*
- *Child Law*

You may also, if you prefer, replace two final year modules with a dissertation.

Law



Law with Politics/Criminology

Students following this pathway take the compulsory modules as per Single Honours Law. In each semester, they also take:

- 15 credits Law options
- 15 credits Law-related from Politics/Criminology

If students are admitted to a Single Honours Law course they can opt, at the end of the first year, to apply to study Dual Honours Law exclusively in the final two years if they no longer wish to graduate with a 'qualifying Law degree'. Alternatively, if they are admitted to the Dual Honours Law course, they also retain the flexibility to apply to transfer to the Single Honours pathway at the end of the first year and so gain professional exemption (provided that they have fulfilled all other professional requirements). Students opting to study Law

with Criminology or Politics have a further pathway that they may potentially choose.

For more details of these pathways, please see our course information leaflets at www.keele.ac.uk/ugcourses/law/

Dual Honours

Students have a wide range of possible subject combinations with which they can study Law at Keele. All Dual Honours students at Keele will follow the same curriculum structure. However, Dual Honours Law students wishing to retain the possibility of applying to transfer to the Single Honours Law programme at Level 2 will study **Legal Skills/Systems** and the two Public Law modules at Level 1, before picking up both Level 2 **Torts** modules, in addition to the Single Honours core modules, in their second year. Level 3 is then the

same as for other Single Honours students. This flexibility is a key feature of the Law programmes at Keele, and enables students to choose the right course for them at the right time. Students who continue to study Dual Honours at Levels 2 and 3 can choose any Law module, enabling them to build a truly interdisciplinary programme directly related to their own particular interests and aspirations – for example, students studying International Relations may look to combine this with some of our International Law options at Levels 2 and 3.

Teaching and assessment

Teaching is by a combination of lectures and tutorials/seminars and students will be assessed by a mixture of examination and written work – some modules may be assessed online (following formative quizzes with feedback) or by presentation. There is also the opportunity to research for and write a dissertation.

Most Law modules are taught by two lectures per week and involve at least four face-to-face tutorials or seminars per semester (more in the first year), and are supported by Keele's virtual learning environment. Assessment methods vary with individual modules; within each year there will be a mixture of examination and coursework.

Skills and careers

Keele Law graduates have an unusual degree of flexibility in terms of career options. Through our close links with the University's Careers Service, you will be supported in your career planning at an early stage in your degree. Students are encouraged to make full use of the dedicated legal careers workshops offered throughout the year by the Careers Service, the Law School and the Student Law Society in combination with LPC/BPTC providers, legal professionals and speakers from other professions and industries. There is also a member of academic staff with particular responsibility for careers liaison and advice within the Law School itself.

We provide numerous opportunities embedded into modules and the co-curricular for students to develop key graduate capabilities, helping them to prepare for life after university. Keele Law School provides students with an excellent inter-disciplinary legal education, equipping them with the knowledge and skills to succeed in a broad range of careers. Law modules are designed to develop the essential skills of analysis,

reasoning and clear presentation of facts and legal arguments. Because the law is always changing, students will have to develop a capacity for responding to new challenges, and this produces a flexibility and precision that will assist students when seeking employment.

Keele Law School ensures that students have the best possible preparation for the competitive legal job marketplace. We work hard to ensure that students have opportunities to build on their academic work and professional skills activities, alongside opportunities to meet with leading members of the profession to learn more about the realities of practice. We have strong links with the national and regional legal profession, and have current members of academic staff with past and on-going experience of practice including two judges. A number of the academic prizes offered to students are sponsored by law firms and firms also assist in the organisation and judging of the client interviewing and mooted competitions. As one of our alumni, Boyd Morwood, made clear to a meeting of the Middle and Inner Temples, "Keele is a good example of a Law School that is making great strides in engaging with the professions".

Our high profile graduates include past President of the Law Society, Fiona Woolf CBE, High Court Judge Sir Peter Coulson, QCs and partners at leading law firms including Hogan Lovells, Pinsent Masons and Berrymans Lace Mawer. The relationships with these lawyers and other firms are an important part of the student experience at Keele Law School. Our alumni's commitment to Keele sets these opportunities apart from more typical student/profession interactions.

Some more ideas...

See also: Law and Criminology, page 111; Law and Human Resource Management, page 163; Law and Politics, page 243.

“All my lecturers gave me great support and inspiration. Without them I would not have been able to achieve a First Class degree.”

Sophie Lake,
2007-2010, training contract with DLA Piper, and Graduate 100
“Law Graduate of the Year” 2010.

Points of pride

According to the External Examiner, 'Law at Keele is innovative and unique'.

The School has a reputation for excellence in research and teaching. 50% of work submitted by Law academics was rated as being World Leading (4*) or Internationally Excellent (3*) in the RAE 2008. The dynamic quality of our research is reflected in our teaching, described by an External Examiner as 'a high quality legal education which is informed by the most recent research.'

Management

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 50

Study abroad: Yes

UCAS Single Honours programme

N200 Management



The course offers

- A critical approach to the study of management, studied in a supportive and challenging learning environment
- A wide choice of options across a range of management topics
- Student exchange opportunities in Europe and North America
- Career opportunities in business management, human resource management, marketing and accounting
- High student satisfaction
- Teaching staff with a national and international research reputation

The programme is a full-time, three-year Single Honours programme. It is ideal for students who want either a background in management or some specialisation in one or more aspects of management.

The teaching of Business Management, Human Resource Management, Marketing, International Business and Accounting at Keele provides a distinctive approach to teaching and research. We think that the most productive way of studying the subject is to take a critical perspective on organisations and by thorough application of theory to everyday practices of management, Keele students have the opportunity to develop the analytical skills to do just that. For this reason, our teaching covers a framework of basic practices used in particular functions of management (such as accounting, marketing and human resources) and invites students to evaluate such practices. We believe that it is important to think about more than just technical issues, but to understand national and international social trends in their historical, cultural and philosophical contexts. Through extensive reading and discussion of a broad range of social science knowledges, we encourage students to engage critically with management practice in a way that is grounded by a thorough appreciation of contemporary organisations.

Course content

Students will take a common first year introducing all aspects of management. In the second and third years, students will be able to specialise in one or more of five pathways: Accounting, Business Management, Human Resource Management, International Business and Marketing.

Year 1

The first year programme comprises six core modules in management, globalisation, human resource management, marketing, economics and accounting. The purpose of these modules is to provide a grounding in each of the areas of management in order to allow a wide choice of pathways and modules in the second and third years. Students are able to choose two electives either from the School's portfolio of modules and/or from elsewhere in the Faculty.

Year 2

The second year programme allows students to choose one or more specialist pathways in Business Management, International Business, Marketing, Human Resource Management and Accounting. Each of the pathways contains five core modules and there is a range of electives from the School's portfolio of modules and/or from elsewhere in the Faculty.

Year 3

The third year programme enables students to continue on the pathway(s) of their choice. Four core modules are studied on each of the pathways and students may undertake library or fieldwork research through the Independent Study Project 1 & 2, for which supervision is provided. In addition, two elective modules are taken from the School's portfolio of modules and/or from elsewhere in the Faculty.

See overleaf for module titles.

Study abroad and modern languages

The Management School promotes the opportunity for students to spend a semester studying Management subjects at a partner institution in Europe, Asia, South Africa, Australia or North America. Students study abroad during either the first or second semester in their second year and take a series of modules at the partner university that are equivalent to those at Keele.

Keele International's Study Abroad Office oversees the process and offers excellent support for students both as they prepare for their study trip and while they are away.

We also encourage students considering studying International Business to learn or extend their knowledge of modern languages through the wide range of language electives available to students in each year of their studies. For further information see: www.keele.ac.uk/llu/

Teaching and assessment

Teaching is by a combination of lectures, classes, and supervised individual and groupwork. While we focus on the development of written communication skills, throughout the course, we pay attention to the development of skills that students will need in whatever career they might pursue after graduating. This includes encouraging the development of communication, presentation and teamworking skills in classes.

Skills and careers

The programme develops and assesses a variety of transferable and subject-specific skills, relevant to career choices in business and management.

Assessments and examinations explore students' ability to solve problems and address issues under time constraints, essays develop abilities in written expression and argument, while seminars give students practice in making presentations and developing powers of oral expression and argument.

The Management course is designed to provide a high-quality, broad-based education that will prepare students for a wide range of career and further study opportunities. Students taking courses in Keele Management School have typically gone on to higher level study and research, to workplace traineeships, human resources management posts, marketing agencies and accounting firms. Many graduates go on to take their higher degrees at Keele or at other universities. Keele also offers Master's programmes in Management that lead on from the undergraduate degree and may offer enhanced career prospects.

Management

First year

Pathway	Management	International Business	Human Resource Management	Marketing	Accounting
Autumn Semester core modules	<ul style="list-style-type: none"> - Management in Context - Markets and Hierarchies - Accounting Principles 				
Spring Semester core modules	<ul style="list-style-type: none"> - Foundations of Human Resource Management - Marketing Principles - Globalisation 		<ul style="list-style-type: none"> - Financial and Management Accounting - Quantitative Methods - Introduction to Information Systems 		
Electives (variable)	<ul style="list-style-type: none"> - Business Law - Quantitative Methods - Financial and Management Accounting - or modules from outside the School 		<ul style="list-style-type: none"> - Foundations of Human Resource Management - Marketing Principles - Globalisation or a module outside the School 		

Second year

Pathway	Management	International Business	Human Resource Management	Marketing
Core modules	<ul style="list-style-type: none"> - Organisational Behaviour - Social Theory at Work - Operations and Quality Management - Corporate Social Responsibility - Research Methods 		<ul style="list-style-type: none"> - Workforce Planning - Industrial Relations - Managing Human Resources - Pay and Performance - Research Methods 	<ul style="list-style-type: none"> - Organisational Behaviour - Understanding the Consumer - Marketing Research - Marketing Management - Research Methods
Three electives (variable) including:	<ul style="list-style-type: none"> - Cost and Management Accounting - Critical Perspectives on Management - Research 	<ul style="list-style-type: none"> - Cost and Management Accounting - International Human Resource Management 	<ul style="list-style-type: none"> - Organisational Behaviour - International Human Resource Management 	<ul style="list-style-type: none"> - Services Marketing - Marketing in Society

Third year

Pathway	Management	International Business	Human Resource Management	Marketing	Accounting
Core modules	<ul style="list-style-type: none"> - Business Strategy - Strategic Human Resource Management - Contemporary Issues in Management - Identity, Culture and Organisation - Independent Study Project 1 & 2 	<ul style="list-style-type: none"> - Business Strategy - Global Labour Regulation - International Business Strategies - Comparative Business Cultures - Independent Study Project 1 & 2 	<ul style="list-style-type: none"> - Strategic Human Resource Management - Employee Development - The Employment Relationship and the Law - Discrimination and Equal Opportunities at Work - Independent Study Project 1 & 2 	<ul style="list-style-type: none"> - Marketing Communications - Exploring Brands and Branding - Global Marketing Decisions - Current Ideas in Marketing - Independent Study Project 1 & 2 	<ul style="list-style-type: none"> - Advanced Financial Reporting - Management Accounting - Audit Framework - Advanced Management Accounting - Independent Study Project 1 & 2
Two electives including:	<ul style="list-style-type: none"> - Leading Change and Entrepreneurship - Managing Supply - International Business Strategies - Innovation and Change - Management 1 & 2 - Managing Diversity 	<ul style="list-style-type: none"> - Global Business Analysis - Global Marketing Decisions 	<ul style="list-style-type: none"> - Global Labour Regulation - Contemporary Issues in Management 	<ul style="list-style-type: none"> - Contemporary Retail Environments - Business Strategy - Consuming Cultures - Contemporary Issues in Management 	<ul style="list-style-type: none"> - Business Strategy - Corporate Governance



Marketing

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 90

Study abroad: Yes

UCAS	Dual Honours combinations
NN45	Accounting
NT57	American Studies
FN75	Applied Environmental Science
CN8M	Applied Psychology
FN55	Astrophysics
CN75	Biochemistry
NN25	Business Management
FN15	Chemistry
GN45	Computer Science
GN4M	Creative Computing
MNC5	Criminology
LN15	Economics
NX53	Educational Studies
QN35	English
PN3M	Film Studies
NN35	Finance
FN45	Forensic Science
LN75	Geography
FN65	Geology
LNT5	Human Geography
NN65	Human Resource Management
GN5M	Information Systems
NN15	International Business
LNF5	International Relations
MN15	Law
GN15	Mathematics
PN35	Media, Communications and Culture
FNC5	Medicinal Chemistry
NW53	Music Technology
FN85	Physical Geography
FN35	Physics
LN25	Politics
CN85	Psychology
GN75	Smart Systems
N5L3	Marketing with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Marketing but lack the necessary background qualifications. See page 275.



The course offers

The Marketing Principal course at Keele offers a unique training in the use of marketing by a range of organisations, including businesses and non-profit or public sector organisations. It is taught from a critical perspective, encouraging students to develop independent thinking as well as a thorough knowledge of marketing theory and practice. Students learn how marketing impacts on the social as well as the economic world.

Marketing staff include international experts in the field of consumer research, small and medium enterprises, arts marketing and social marketing. The staff are all very active in their fields of research which means that teaching is informed by up-to-the-minute ideas and information. Elective modules will introduce the latest cutting-edge research and provide the opportunity to consider the role of the consumer in today's society, the impact of marketing on the culture and management of organisations and the widening influence of marketing tools and concepts on contemporary society.

While encouraging students to understand the role of marketing within wider society, the course also ensures that students learn the practical marketing tools and techniques required in the commercial sector to manage and plan the marketing function and identify and communicate with the potential market.

There is also an opportunity to study abroad in the second year of study in a range of different countries. As well as allowing students to experience a different university environment, this option will encourage consideration of how marketing applies in a different national context.

Marketing is a research-led, topical course that will develop intellectual and analytical skills as well as giving a unique understanding of marketing in a variety of settings. There is plenty of opportunity to develop skills both for industry and for further academic study such as our Master's in Marketing or a PhD in Marketing or Consumer Research.

For more information go to: www.keele.ac.uk/kms/ug/bamarketing

Course content

The Principal course in Marketing offers at least one core marketing module in the first year, combined with other core modules on management from within Keele Management School. The course is continually developed to take account of student feedback and staff availability, but the likely course structure is shown below.

Year 1

The following modules are taken:

Management in Context provides an introduction to management and organisations, and places them in a historical, political and economic context.

Marketing Principles provides a general understanding of the key concepts, tools and theories of relevance to marketers today, in a variety of contexts such as services, business-to-business, social and not-for-profit marketing.

Modules can also be taken from a range of electives, including:

- *Accounting Principles*
- *Markets and Hierarchies*
- *Business Law*
- *Foundations of Human Resource Management*
- *Globalisation*
- *Quantitative Methods*
- *Financial and Management Accounting*

Year 2

Basic knowledge gained in the first year is built upon by taking the following core modules:

Understanding the Consumer provides you with an understanding of consumer behaviour and an understanding of how this knowledge can be used to inform commercial decisions.

Emphasis is placed on a theoretical understanding of buyer behaviour in conjunction with the critical application of these skills to practical marketing situations.

You then choose either

Marketing Research examines the tools and concepts needed to propose, undertake and evaluate marketing research, or

Marketing Management encourages you to examine the process of developing and controlling marketing plans and to critically evaluate the tools available to marketing managers.

Modules can also be taken from a range of electives, including:

- *Marketing in Society*
- *Services Marketing*
- *Organisational Behaviour*
- *Research Methods*

Year 3

Two core and two elective modules are studied:

Marketing Communications places a specific focus on the role of advertising in the contemporary marketplace.

Global Marketing Decisions focuses on marketing issues that arise from operating in a global marketplace and how these affect the decisions made by both marketers and companies.

The range of electives include:

- *Consuming Cultures*
- *Exploring Brands and Branding*
- *Current Ideas in Marketing*
- *Contemporary Retail Environments*
- *Independent Study Project 1 & 2*

Study abroad

The Management School is keen to promote the opportunity for students to spend a semester studying Marketing at a partner institution in the EU, Australia or North America. Students study abroad during either the first or second semester in their second year and take a series of modules at the partner university that are equivalent to those at Keele. Keele International's Study Abroad Office oversees the process and offers excellent support for students both as they prepare for their study trip and while they are away.

For more information go to: www.keele.ac.uk/studyabroad/

Tom Balmer, Marketing and Politics, took the opportunity to study abroad in the United States. 'I received the best results of my entire university life. So with good results, lots of incredible memories of places I could only dream of visiting, with friends I will keep for life, I would say that for me study abroad was a definite success; and is without doubt a must if studying at Keele'.

Teaching and assessment

Most modules involve lectures and group work (case studies, presentations and debates). For example, there may be a team project on the marketing strategies of a local business, or students will be asked to debate controversial marketing ethics such as 'whose needs does marketing ultimately serve?'; 'what is the influence of advertising on young people?'; and 'is marketing appropriate within non-profit organisations?'. Guest speakers from industry and the public sector are also invited to speak to students to provide a practical insight into marketing. Assessment is varied to provide students with a broad knowledge base. Essays and examinations are the most common structure, but modules also use presentations, literature review assignments, case studies, consultancy reports and developing students' own marketing campaign. The aim is to ensure teaching and assessment to provide students with a variety of experiences and challenges to prepare them for life after graduation.

Skills and careers

The Marketing Principal course is designed to provide students with comprehensive training that prepares them for the widest range of careers after graduation in business and non-business organisations. By covering marketing of not only business, but also the public sector, graduates have a wide range of employment options. A wide range of organisations recruit Marketing graduates, including commerce and business but also the health service, local councils, political parties, charities, educational institutions and government departments.

For those considering an academic career, marketing staff are experienced in the supervision of PhDs and advice and support is available for applications for PhD funding. The School also offers a Masters in Marketing.

Some more ideas...

See also: [Marketing and Creative Computing, page 101.](#)

Mathematics (Single Honours)

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 80

Study abroad: Yes

UCAS Single Honours programmes

G100 Mathematics

G101 Mathematics with Science Foundation Year. This four-year degree course is designed for students who wish to study Mathematics but lack the necessary background qualifications. See page 273.



The course offers

- Sympathetic tutorial support system
- Excellent staff to student ratio
- A modern IT environment

Mathematics is of fundamental importance in a modern society. It has well established and rapidly developing applications in business, economics, management, science, technology and medicine, but the importance of the discipline is increasingly being recognised in, for example, law, politics, sport, ecology, psychology and sociology. Moreover, mathematical ideas contribute significantly to conceptual understanding and debate, both in everyday life and in research. Notwithstanding its usefulness, the discipline is an intrinsically attractive field of study, which gives rise to a host of elegant and enduring results and intellectually challenging problems.

The Single Honours course is flexible in that students may elect to study a broad range of topics in pure, applied and statistical mathematics, or they may choose to specialise in their preferred areas of interest, especially in their third year.

While most of the course is delivered by means of lectures and problem-solving classes, we recognise that IT is having a significant impact on the teaching, learning and practice of mathematics. We are therefore equipped with our own computing laboratory with a range of sophisticated software of the type used by professional mathematicians and statisticians. These facilities are available throughout the programme and are intended to stimulate and motivate both insight and comprehension. Students arrive at university from a range of mathematical backgrounds. Although many will have studied some statistics or mechanics at A-level, specific knowledge of neither area is assumed. Deliberate effort is made to effect a smooth transition to university-level study. In particular, within the tutoring system, support is available for consolidating mathematical capability. There are also diagnostic testing facilities that are designed to assist new students with suitable preparation for the course.

Mathematics is particularly proud of its reputation for both the academic and pastoral care of its students. Staff members are concerned for, and responsive to, the needs of their students. An active Staff-Student Liaison Committee provides a regular forum for constructive debate on how the quality of our teaching might be further improved.

Point of pride

Mathematics ranked 6th in the UK in the 2011 National Student Survey for overall satisfaction.

Course content

Students on the Single Honours programme take a total of seven or eight modules in Mathematics in the first year and eight in subsequent years. The modules in the first two years provide a broad-based foundation for more specialised studies in the third.

Year 1

The first year comprises of the following modules:

- Two modules on *Calculus*, which cover essential techniques and results in an explanation orientated way, in contrast to A-Level
- Two modules on *Algebra*, the first of which introduces the need for rigour in Mathematics and develops the ability to construct logical arguments, and the second of which covers linear algebra and linear programming
- *Computational Mathematics*, including numerical methods
- *Analysis*, the study of the infinitely small and infinitely large
- *Geometry*, including Euclidean and non-Euclidean geometry OR
- *Applicable Mathematics*

The Calculus modules are supported by a computer-based component that provides online tutorials and further practice on essential techniques. Students are encouraged to learn the state-of-the-art Mathematica symbolic manipulation software package, and to use it in later modules.

Finally, there is an elective module, Making Sense of Statistics, which is open to Single Honours Mathematics students.

Year 2

The second year builds on the first year modules, and presents more advanced ideas in pure and applicable mathematics, and statistics.

In the Autumn Semester students take the compulsory modules:

- *Differential Equations*
- *Abstract Algebra*
- *Probability*

Plus one module from:

- *Linear Algebra*
- *Numerical Methods*
- *Operational Research II*

In the Spring Semester, students take the following modules:

- *Complex Variable and Vector Calculus*
- *Mathematical Modelling*

Plus two modules from:

- *Metric Spaces*
- *Dynamics*
- *Linear Models*
- *Stochastic Processes*

Year 3

In the third and final year, there is considerable choice, subject to timetabling and prerequisite constraints. Students study a total of eight option modules according to their interests. The topics available vary from year to year but are likely to include:

- *Group Theory*
- *Graph Theory*
- *Logic*
- *Coding and Cryptography*
- *Non-linear Differential Equations*
- *Partial Differential Equations*
- *Fluids*
- *Waves*
- *Complex Variable*
- *Relativity*
- *Numerical Analysis*
- *Mathematical Biology*
- *Number Theory*
- *Ring and Field Theory*
- *Probability Models*
- *Medical Statistics*

One final year module may take the form of a dissertation on an approved topic.

Example titles have included:

- *Fourier Series*
- *Geometric Constructions – Impossibility Proofs and Regular Polygons*
- *An Introduction to Chaos*
- *A Steady State Wind-driven Ocean Circulation Model*
- *Management of Cholesterol Levels in General Practice*
- *Statistics in Sport*
- *Crime Statistics*
- *The Optimal Phasing of Traffic Signals*
- *Software for Unconstrained Optimisation*

Teaching and assessment

In the first two years most modules involve, each week, three lectures and a problem-solving class. Delivery of third year modules is more flexible, owing to the smaller size of the groups, but normally involves three contact hours per week. We pay careful attention to the attendance and individual progress of our students. In the first year, some modules have class tests, which usually count for 30% of the final module mark, whilst others have regular assignments which typically count for 20% of the final module mark. In the second and third years, regular assignments also typically count for 20% of the final module mark. In most cases, a two-hour examination counts for 80% in second and third year modules, and for 60% or 70% in first year modules, there being some credit given for participation in first year problem-solving classes.

Skills and careers

The Single Honours course in Mathematics provides a combination of knowledge and skills that is in high demand from employers in many sectors. As well as gaining specific expertise related to the course content, students will have been developing both the logical and analytical thinking that characterises mathematicians, and the mix of judgement, sound theory and sensitivity to data that epitomises statisticians. Additionally, the course is a suitable platform for postgraduate study.

Some of the career opportunities open to well-qualified graduates from the course include scientific and medical research, the City, the civil service, research and development in industry, management consultancy, finance, the actuarial profession, software houses and education. More particularly, mathematical facility, together with proficiency in the use of statistical software, leaves students equipped for work as practising statisticians. Our graduates have very high employment rates.

Some more ideas...

See also: Dual Honours Mathematics, page 187.

Mathematics (Dual Honours)

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 80

Study abroad: Yes

UCAS Dual Honours combinations

- NG41** Accounting
- GT17** American Studies
- FG71** Applied Environmental Science
- CG8C** Applied Psychology
- FG51** Astrophysics
- CG11** Biology
- GN19** Business Management
- FG11** Chemistry
- GG14** Computer Science
- GG41** Creative Computing
- GL11** Economics
- GX13** Educational Studies
- PG3C** Film Studies
- GN13** Finance
- FG41** Forensic Science
- LG71** Geography
- GV11** History
- CG1C** Human Biology
- GL17** Human Geography
- GG15** Information Systems
- NG11** International Business
- GL12** International Relations
- GM11** Law
- GN15** Marketing
- PG31** Media, Communications and Culture
- FGC1** Medicinal Chemistry
- GW13** Music
- BG11** Neuroscience
- GV15** Philosophy
- FG81** Physical Geography
- FG31** Physics
- CG81** Psychology
- GG71** Smart Systems
- GL13** Sociology
- G105** **Mathematics (Major).** Please indicate your choice of second science subject (chosen from those listed above) in the 'further information' section of your UCAS form.

G101 **Mathematics with Science Foundation Year.** This four-year degree course is designed for students who wish to study Mathematics but lack the necessary background qualifications. See page 273.



The course offers

- High success rates
- Sympathetic tutorial support system
- Excellent staff to student ratio

In modern society there are very few areas of knowledge and practice in which mathematics does not play a part. Applications are well-established in commerce, science and technology, but mathematics is contributing increasingly to areas affecting quality of life such as health and the environment. Consequently, as a subject of study, Mathematics possesses great diversity, and it offers a wide range of opportunities to identify areas that relate to our own interests, concerns and aspirations.

The Keele course is designed to cover many different types of mathematical thinking and to illustrate its applicability in a range of practical contexts. As students progress, they will be able to select modules that reflect their personal interests and aptitudes. Students arrive from a range of mathematical backgrounds. To ensure that all new students are suitably prepared, we offer diagnostic testing facilities. Moreover, within the tutoring system, support is available to consolidate mathematical capability and to facilitate successful progression through the course. Although many students will have studied some statistics or mechanics at A-level, specific knowledge of neither area is assumed.

IT is having a profound impact on the teaching, learning and practice of Mathematics. We are equipped with our own computing laboratory incorporating sophisticated mathematical software that stimulates and motivates both insight and understanding. Support is available during the first year to bring students to a level of competence that will enable them, throughout their undergraduate programme, to take maximum advantage of our IT facilities.

Mathematics is particularly proud of its reputation for both the academic and pastoral care of its students. Staff members are concerned for, and responsive to, the needs of their students. An active Staff-Student Liaison Committee provides a regular forum for constructive debate on how we can continually improve the quality of our teaching.

Course content

The modules in the first two years provide a broad-based foundation for more specialised studies in the third year.

Year 1

The first year modules include two modules on Calculus, which cover essential techniques and results in an explanation orientated way, in contrast to A-level. There are also two modules on Algebra, the first of which introduces the need for rigour in Mathematics and develops the ability to construct logical arguments, and the second of which covers linear algebra and linear programming. The Calculus modules are supported by a computer-based component that provides on-line tutorials and further practice on essential techniques.

Year 2

The modules that follow in the second year build on first year modules and cover key ideas in pure and applicable mathematics. Students are able to choose optional modules, depending on their particular interests.

In the Autumn Semester, the modules are:

– *Differential Equations*

Plus one module from:

- *Abstract Algebra*
- *Linear Algebra*
- *Operational Research*
- *Numerical Methods*
- *Probability*

The Spring Semester modules are:

– *Complex Variable and Vector Calculus*

Plus one module from:

- *Analysis*
- *Dynamics*
- *Stochastic Processes*
- *Mathematical Modelling*
- *Linear Models*

Year 3

There is considerable choice, subject to timetabling and prerequisite constraints. Dual Honours students study four option modules according to their mathematical interests. The topics available vary from year to year but are likely to include modules on:

- *Graph Theory*
- *Group Theory*
- *Logic*
- *Coding and Cryptography*
- *Non-linear Differential Equations*
- *Partial Differential Equations*
- *Fluids*
- *Waves*
- *Complex Variable*
- *Relativity*
- *Numerical Analysis*
- *Mathematical Biology*
- *Number Theory*
- *Ring and Field Theory*
- *Probability Models*
- *Medical Statistics*

One final year module may also take the form of a dissertation on an approved topic.

Students may transfer to Single Honours Mathematics up until the end of the first semester.

Teaching and assessment

Dual Honours students take four Mathematics modules in each of their three years. In the first two years, each module involves three lectures and a problem-solving class, every week; delivery of third year modules is more flexible, owing to the smaller size of the groups, but normally involves three contact hours per week. We pay careful attention to the attendance and individual progress of our students. In the first year, there are class tests which usually count for 30% of the final module mark. In the second and third years, regular assignments typically count for 20% of the final module mark. In most cases, a two-hour examination counts for 80% in second and third year modules, and for 60% in first year modules, there being some credit given for participation in first year problem-solving classes.

Skills and careers

As well as the specific expertise and skills relating to course content, students will continually be developing the kind of logical and analytical thinking which characterises the discipline of Mathematics. It is this quality which marks out the Mathematics graduate, not only as a skilled practical scientist, but also as a potential strategic planner and decision-maker in any complex situation. Therefore, there are many opportunities open to well-qualified mathematicians in industry, commerce, finance, education and research, and our graduates have very high employment rates.

Point of pride

Mathematics ranked 6th in the UK in the 2011 National Student Survey for overall satisfaction.

Mathematics (Dual Honours)

Some more ideas...

Mathematics and Economics or Finance

Mathematics is an ideal subject to take alongside Economics or Finance: either combination provides an excellent preparation for postgraduate study, or careers in the City, commerce, accountancy, actuarial work or the financial sector. Many areas of both Economics and Finance are highly quantitative in nature; for example, linear algebra is the main tool used in the study of macroeconomics, and calculus is used extensively in the study of microeconomics. In Finance, an important application of Mathematics is in the trading of derivatives, made famous in recent years by the Black-Scholes equation. Mathematics students may, if they wish, choose from statistical options in their final year; currently these options are: Probability Models and Medical Statistics. In addition, students may undertake a final year dissertation that can be in any agreed area of Mathematics. Examples of dissertations include: 'Regression and Time Series

Analysis of Economic Data'; 'Financial Modelling'; and 'The Knapsack Problem and its Applications in Industry and Commerce'.

Mathematics and Physics

Mathematics contains a strong research group in Applied Mathematics and this is reflected in the courses available, particularly in the final year. Students currently have the option of choosing from Mathematics modules in: Non-Linear Differential Equations; Partial Differential Equations; Fluid Mechanics; Relativity; Waves; and Numerical Analysis. In addition, students may undertake a final year dissertation that can be in any agreed area of Mathematics. Expertise exists within the Mathematics staff in most areas of Applied Mathematics and theoretical mechanics and hence a wide range of dissertations have been completed, including: 'Reflection, Transmission and Radiation of Waves in One and Two Dimensions'; 'The Problem of Three Bodies'; 'Theoretical and Computational Analysis of the Inverted Forced Pendulum Equation'; 'The

Interaction Between Two Self-Oscillating Systems'; 'Active Control of Sound and Vibrations'; 'Creating a Mathematical Model for Architectural Acoustics'; 'Chaos in a Non-linear Electronic Circuit'; and 'The Dirac soliton'.

See also: Mathematics and Computer Science, page 97; Single Honours Mathematics, page 185.



Media, Communications and Culture

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 50

Study abroad: Yes

UCAS Dual Honours combinations

CP83	Applied Psychology
PF35	Astrophysics
PC37	Biochemistry
PC31	Biology
PN31	Business Management
PM39	Criminology
PG33	English
PP39	Film Studies
PN33	Finance
FP43	Forensic Science
PF38	Geography
PF36	Geology
PV31	History
CP19	Human Biology
PL37	Human Geography
PN36	Human Resource Management
NP13	International Business
PLH2	International Relations
PM31	Law
PN35	Marketing
PG31	Mathematics
PW33	Music
PJ39	Music Technology
PB31	Neuroscience
PV35	Philosophy
PFH8	Physical Geography
PF33	Physics
PL32	Politics
PC38	Psychology
PL33	Sociology
P9V0	Media, Communications and Culture with Humanities Foundation Year.

This four-year degree course is for students who wish to study Media, Communications and Culture but lack the necessary background qualifications. See page 271.



The course offers

- **Interdisciplinary study based on the specialist skills and expertise of staff from a range of subjects including English, Sociology, Visual Arts, Music and Music Technology, co-ordinated and administered by the School of Humanities**
- **Both theoretical approaches and practical, hands-on experience**
- **The opportunity to study a variety of cultural forms including film, television, photography, literature, music and the internet**
- **A challenging combination of subjects and teaching styles carried out in a lively and friendly learning environment**
- **An emphasis on creative skills vital in the contemporary employment sector**
- **The opportunity to enter work placement schemes in media industries including radio, news and video production**
- **Study abroad for a semester at one of our international partners**

Media, Communications and Culture form a central part of our contemporary living experience: from the way we access the news to the way meaning is produced in cultural forms such as television, film, literature and music. We rely on media technology to sustain our everyday social relationships as well as to engage in the worlds of business, politics and international affairs. Communications media have become key motors of social and cultural change. Great industries, new art forms and novel ways of thinking about society have arisen through the transformations that literature, radio, cinema, television and computing have introduced to our world. But how did our world become so media-rich? Why is effective communication so valuable in the contemporary world?

On this course, students will explore the ways in which Media, Communications and Culture have become central to every aspect of our lives. Students will study a range of cultural forms such as film, novels, plays, art, photography, advertisements, magazines and news production. They will investigate the way in which historical and cultural movements developed and continue to influence media production in the present. Students will also get the opportunity to produce cultural artefacts of their own through our series of practical modules that range from the art of photography and news production through to producing videos and magazines.

This combination of critical thinking about media and culture, and engaging creatively in their practical production, form the unique heart of Media, Communications and Culture at Keele.

Combinations

Media, Communications and Culture is offered in combination with a wide range of other Principal courses. Given its inter-disciplinary nature, this course combines well with many other academic disciplines, in particular English, Sociology, History and Music. MCC also works especially well in combination with Marketing, Music Technology and Film Studies.

Course content

On this programme, students take a series of modules, some of which are compulsory, together with others chosen from a list of available elective options. In each year, students will study four modules, two per semester. In the first year, they will take two compulsory core modules that reflect the theoretical and practical aspects of the programme. These core modules provide the skills necessary to move into the second year. In addition to the core modules, students have the opportunity to select two further elective modules in video, film or cultural studies.

As students work through the degree programme, they will begin to discover the particular areas that they want to pursue and will be most helpful in their future careers. Some prefer to concentrate on the critical and theoretical study of Media, Communications and Culture, while others prefer the practical, hands-on approach to the subject. Either way, students will develop skills that will be useful in a wide range of careers.

Students have the opportunity to engage in work placement schemes in the second and third years. These are popular and open to competition among our students, but they are not compulsory. Students also have the opportunity, if they wish, to study abroad for one semester in the second year. Under this scheme, students can study in universities in Europe, North America, Australia or South Africa. Should they prefer to spend a shorter time abroad, there is an extremely popular month's placement in South Korea on offer, which is especially geared to students interested in making DVDs and exploring this vibrant South Asian environment.

Year 1

Core modules

Mediated World examines how our contemporary mediated world has developed and offers perspectives on its problems and possibilities. It also shows how the media impact on our everyday life.

The Photographic Message looks at the impact of photography from its early days to contemporary hyper-real digital image production. You will study the way in which photography produces meaning, and study the work of photographers in both a contemporary and historical context.

Elective Modules

Understanding Culture introduces some central ways of thinking about culture: for example, how is meaning created and shared? How do we assign value to cultural products? What are the relations between 'high' and 'low' culture? It takes these questions as a basis for the critical analysis of a range of literary texts, film and media images.

Digital Video provides hands-on experience of both pre-production, digital video and post-production techniques. It also aims to introduce a range of debates relating to the new role in technologies society, and in particular how identities are produced and maintained by the media.

Year 2

Core modules

Analysing Culture builds on the perspectives encountered in the first year to compare and assess major theories of culture. It asks how we can use these theories to think about topics such as nationhood, globalisation and consumerism.

Creating Awareness Campaigns focuses on solving communications problems by making documents and artefacts. It considers the issues of contemporary media forms such as advertising, journalism, press coverage and the impact of the World Wide Web. You will then pursue communications goals by making media 'documents' that engage with these issues.

Elective modules

You can choose two special topics in Media, Communications and Culture from a range of modules that includes introductory socio-linguistics, print culture, film, television, cultural history and web development.

Year 3

You can choose core modules from an approved list, which includes a double-module independent studies project. This may take the form of either a conventional 10,000-word dissertation (a research exercise designed and completed by you in consultation with a supervisor), or a supervised practical project aimed at

devising a strategy for solving a real-world communication problem encountered by an identified individual or organisation. Single-module choices will include options on magazine production, film, television, fiction and the urban landscape.

Teaching and assessment

This course integrates the theoretical and the practical dimensions of Media, Communications and Culture. Therefore, as well as familiar lecture and seminar formats, there is a strong emphasis on making, doing and performing, both individually and in groups. Right from day one, we want students to use their imagination to make things happen. But we also ask students to explore theories of media and to think about what makes for successful communication. Methods of assessment therefore reflect the creative nature of contemporary Media, Communications and Culture. Students not only complete traditional essays and examinations, but are also assessed by a range of individual and practical group projects, such as photomontage, filmmaking, news documentary, magazines and website creation.

Skills and careers

By the time Media, Communications and Culture students graduate, they are ready to take up an active and creative role in today's media-rich world. Graduates are exceptionally well qualified for various kinds of work and postgraduate study. They have acquired skills of analysis and written expression and have experience of a variety of individual and teamwork media. They also have experience of producing documents and artefacts of diverse kinds, and possess many of the skills required for work in the contemporary creative industries. Our graduates have found employment in a range of careers such as television production, the film industry, journalism, publishing, web design, teaching and acting.

Point of pride

South Korean summer school, at Dongguk University offers an opportunity to make a video in this fascinating environment, on the basis of a month's stay: study abroad but without committing an entire semester.

Medicine

Course: Medicine MBChB

Entry requirements: See page 283–292

Approximate intake in 2013: 130 (including 10 places for international students) for A100 and up to 10 places for A104.

Study abroad: No

UCAS Single Honours programmes

A100 Five-year Bachelor of Medicine and Bachelor of Surgery (MBChB).

A104 **Medicine with Health Foundation Year.** The Health Foundation Year is designed to provide an entry to Medicine for those without the conventional A-level subjects normally required for direct entry, subject to achieving specified grades in the Foundation Year assessments. Further details of the Health Foundation Year may be found on page 269.

How to apply

All applications must be made through UCAS by 15 October 2012 for applicants wishing to enter the following September and for those wishing to defer.

To obtain a copy of the School of Medicine course brochure, please email

medadmissions@hfac.keele.ac.uk

T. 01782 734651

The full course brochure can also be downloaded from the School of Medicine website at www.keele.ac.uk/health/schoolofmedicine/undergraduatemedicalcourse/



The course offers

The aim of the Medicine course is to produce doctors who are equipped to practise into the second quarter of the 21st century. The emphasis is on self-education, development of critical faculties and communication skills. From the outset, studies will be centred on patients and patient problems. Understanding human life requires study of the human body at all levels: molecular, cellular, systems, the complete organism and interactions with the environment and other members of society. Many different specialities contribute to this pool of understanding, and an integrative approach is used to enable acquisition of the understanding of people, health and disease that is necessary for the effective practice of medicine.

Course content

The MBChB Honours degree at Keele University is designed to ensure graduates meet the necessary standards in terms of knowledge, skills and attitudes that new doctors should have. The curricular outcomes for undergraduate medical education are set out in Tomorrow's Doctors (GMC, 2009; see www.gmc-uk.org) and the principles of professional practice as set out in the GMC document Good Medical Practice (GMC, 2006).

These are:

- **Good clinical care:** doctors must practise good standards of clinical care, practise within the limits of their competence and make sure that patients are not put at unnecessary risk
- **Maintaining good medical practice:** doctors must keep up-to-date with developments in their field and maintain their skills
- **Relationships with patients:** doctors must develop and maintain successful relationships with their patients
- **Working with colleagues:** doctors must work effectively with colleagues (from all health and social care professions)
- **Teaching and training:** if doctors have teaching responsibilities, they must develop the skills, attitudes and practices of a competent teacher
- **Probity:** doctors must be honest
- **Health:** doctors must not allow their own health or condition to put patients and others at risk

The Keele curriculum is a modern, highly integrated medical curriculum, which combines a range of learning strategies, including problem-based learning, early clinical experience, integrated communication and clinical skills teaching, lectures, seminars, practical sessions and clinical placements in major specialties. The medical curriculum integrates biomedical, behavioural, social and clinical sciences, healthcare delivery and professional developments. Integration occurs at all levels and is guided by five themes.

Themes

The overall structure of the course comprises five compulsory modules taken over five years (see page 195). The five themes running through the whole course are:

- *Scientific basis of medicine*
- *Clinical, communication and information management skills*

- *Individual, community and population health*
- *Quality and efficiency in healthcare*
- *Ethics, personal and professional development*

There is a phased integration of basic science and clinical experience throughout the year-long modules 1, 2 and 3, with increasing exposure to clinical practice throughout the course.

Interprofessional learning will occur at several stages, commencing in module 1 with a series of interprofessional group activities involving medical, nursing, pharmacy and physiotherapy students at Keele. These sessions promote mutual understanding of roles and effective collaboration, both essential to developing the professional teamwork required in modern, high-quality healthcare. Interprofessional learning in more senior years will involve collaborative clinical assessments and working with students in other health profession courses.

Diversity of student interest and career options is fostered through the student-selected component (SSC) programme. During each academic year of the course, students are offered a choice of learning experience that allows either breadth (including not only exposure to wider areas of clinical practice, but also the opportunity to learn within the context of, for example, the arts and humanities) or depth (more specialist clinical experience). Over the whole five years, students will be able to gain a diverse range of such experiences, building on natural aptitudes and providing a basis for future career interest. Further opportunities for diversity are encouraged through intercalation.

The diagram on page 195 is an indication of course content. Some of the details may change over time.

Our facilities

Keele School of Medicine is spread across various sites in Staffordshire and Shropshire. The three principal buildings are located at the University main campus and at the University Hospital of North Staffordshire (UHNS) three miles away. There is also a substantial Medical School presence at our associate teaching hospital at the Shrewsbury and Telford Hospitals NHS Trust in Shropshire, at North Staffordshire Combined Healthcare NHS Trust, at Mid Staffordshire NHS Foundation Trust, and at the South Staffordshire and Shropshire NHS Foundation Trust at both Stafford and Shrewsbury. All medical students can expect

to spend varying periods of time at all of these sites during their five years on the course.

The Medical School building at Keele Campus was opened in September 2003. It contains everything that one would expect in a modern purpose-built facility, including a large lecture theatre, seminar rooms, IT laboratory, an anatomy suite, multi-user laboratories, a resource room, student common room and refreshment area. In addition to this, the University provides library and information services in the nearby Information Services building.

At the University Hospital of North Staffordshire Campus, there are two educational buildings: the Keele University Medical School (UHNS Hospital Campus) building, opened in 2003, and the Clinical Education Centre, opened in 2004. As well as the usual teaching rooms, the hospital campus provides a multi-professional Health Library and superb clinical skills laboratory facilities which have recently been extended.

The Harplands Hospital (North Staffordshire Combined Healthcare Trust) building behind the Clinical Education Centre includes a dedicated student common room/IT facility, seminar rooms and a small skills laboratory.

At the Royal Shrewsbury Hospital, the Learning Centre was opened in 2008. It contains seminar rooms, a clinical skills laboratory, a student common room/resource room, and an integrated Health Library. New, high standard living accommodation for students opened in August 2009 at the Shrewsbury site.

At Stafford, Mid Staffordshire NHS Foundation Trust has an excellent postgraduate Medical Centre with a formal lecture theatre, several teaching rooms and library facilities, which are all available to medical students. In addition, the development of another building on the site to add a common room, administrative office, teaching rooms, IT facilities and a skills laboratory, will enhance the existing facilities. Residential accommodation is also provided on site. The South Staffordshire and Shropshire Foundation Trust is also planning to develop dedicated space for Keele medical students at St George's Hospital site in Stafford.

Short movies of life at Keele School of Medicine can be viewed or students can take a virtual tour of the school on our website at www.keele.ac.uk/health/schoolofmedicine/movies/

Medicine

Student support and guidance

There is a dedicated student support service at the School of Medicine. The team will be pleased to help with a wide range of issues and support is available on a confidential, individual basis at the University and all major hospital sites.

There is a comprehensive network of pastoral and academic support. This is a vital resource, as students will be taking much of the responsibility for their own learning during a challenging course that introduces them to many new experiences.

Integrated curricular themes (present in all phases)	Modules and units							
Scientific basis of medicine	Phase 1: Year 1: Module 1: Challenges to Health – Credit value: 120 credits							
	Unit 1 Emergencies	Unit 2 Infection and immunity	Unit 3 Cancer	Unit 4 Ageing	Unit 5 Lifestyle	Unit 6 Complex family	Student-selected component (SSC)	
	Phase 2: Year 2: Module 2: Integrated Clinical Pathology 1 – Credit value: 120 credits							
	Unit 1 Inputs and outputs	Unit 2 Movement		Unit 3 Life support and defence	Unit 4 Sensation		SSC	
	Optional intercalated bachelor's degree after module 2*							
	Phase 2: Year 3: Module 3: Integrated Clinical Pathology 2 – Credit value: 120 credits							
	Unit 1 The surgical patient	Unit 2 The medical patient 1	Unit 3 The young patient	Unit 4 The elderly patient	Unit 5 The medical patient 2	Unit 6 Mental health	SSC	Consolidation of clinical skills
	Optional intercalated bachelor's degree* (see below)							
	Phase 3: Year 4: Module 4: Advanced Clinical Experience – Credit value: 120 credits							
	Unit 1 Child health/ Mental health	Unit 2 Women's health	Unit 3 Integrated medical practice 1		Unit 4 Integrated medical practice 2		Unit 5 General surgery	SSC
Optional intercalated master's degree* (see below)								
Phase 4: Year 5: Module 5: Preparation for Professional Practice – Credit value: 120 credits								
Unit 1 GP assistantship	Unit 2 Acute and critical care rotation (emergency medicine, intensive care, anaesthetics)		Unit 3 Surgical student assistantship	Unit 4 Medical student assistantship		Distant elective		
Total programme credits: 600								

Teaching and assessment

The programme is based on a 'hybrid' approach that uses many methods.

- Themes are present in each module/year
- Students will be allocated to a 'study group' each year for modules 1-3
- Of the 40 expected study hours each week, approximately half are devoted to independent and group study
- Maximum of five to six lectures each week
- Emphasis on practical sessions, including anatomy and laboratory sessions
- Clinical/communication/information skills starts early in module 1
- Approximately 20% community-based experience throughout the course
- Problem-based learning (PBL) with groups of about 11 in modules 1-2
- Small case-based learning groups in module 3, and case-illustrated learning in module 4
- Each week in modules 1-2 ends with an 'integrating' event, e.g. debate, panel presentation, clinical case presentation and clinico-pathological cases (CPCs)
- In modules 3, 4 and 5, students work in smaller groups or pairs, based in a variety of clinical settings

The assessments have two main aims: first to help students achieve the learning objectives of the course (formative) and second to certify those students who have achieved those learning objectives (summative).

Formative assessment is a key, integrated component of the course and there is regular, web-based material on which students can assess their understanding.

These assessments will reinforce what students need to know, reassure those students who are on track and point out any areas that require extra study. They will help to guide students in their professional development. Students will meet all different methods of testing in this formative way before they encounter the same method in a summative examination.

We use a variety of different testing methods at Keele. We will test students' ability to apply knowledge with written methods such as multiple-choice questions, extended matching questions and key feature problems. We will examine students' ability to comprehend a medical text and paraphrase it in lay terms. From an early stage in the course, we will examine students' practical and clinical skills in

the laboratory and clinical arena. These tests include OSSEs (objective structured skills examination) and OSCEs (objective structured clinical examination). Students will have an opportunity to learn and practise these skills and receive feedback throughout the learning year and prior to the summative examinations.

Students will keep a portfolio detailing the development of their clinical practice, including reflections on the new situations that they encounter. This will be linked to appraisal. Students will also participate in multi-source feedback that will help them understand how they perform as a team member and assist them in developing professionalism.

In the final year of the course (module 5), there will be a final OSCE exam but throughout the year a series of 'real-life' examinations of clinical performance in the workplace. This will help both us and students to know whether they are ready to take on the role of a Foundation Year doctor.

After graduation

After graduation from an approved degree programme, medical graduates apply to the General Medical Council (GMC) for provisional registration. Graduates are entitled to provisional registration with the GMC with a licence to practise, subject to demonstrating to the GMC that their fitness to practise is not impaired. Please see the GMC website at www.gmc-uk.org for more information. After satisfactory completion of the first year of postgraduate training, graduates achieve full registration with the GMC. The learning objectives of the first year of the Foundation Programme are set by the GMC. At the time of print, the responsibility for setting the standards for the second year of the Foundation Programme and for further postgraduate training falls on the Postgraduate Medical Education and Training Board (PMETB).

All new medical graduates in the UK should undertake the Foundation Programme. These programmes are run by Foundation Schools that cover geographic areas (such as Staffordshire). The Foundation programme runs nationally but delivery may differ a little between Foundation Schools. The usual model is to undertake six four-month attachments in different specialities over two years to attain a wide range of competencies. There is an opportunity for students to choose the geographical location in which to undertake their Foundation Programme as well as some choice of specialities.

However, applications are competitive so first choice locations and specialities are preferentially given to the better candidates. For more information on the Foundation Programme, please see www.foundationprogramme.nhs.uk

Applications to the main Foundation Programmes occur at the beginning of the fifth year. Help is provided in applying for these posts by the careers liaison coordinator, who has strong links with the postgraduate Foundation Schools. Locally, the West Midlands Workforce Deanery is active in supporting trainees in the West Midlands to pursue their suited career and the career pages of the website contain details and podcasts of careers in various specialities: <http://workforcedeanery.westmidlands.nhs.uk/>

Vocational training and education continues throughout professional life, and further postgraduate training is provided through recognised training schemes leading to the award of a Certificate of Completion of Training (CCT). Attainment of a CCT allows the individual to apply for senior positions, such as consultant posts or general practice partnerships. These schemes vary in duration from three to seven years, commencing on successful completion of the Foundation Programme. It is crucial that students think about which speciality route they would like to follow as early as they possibly can. Important career decisions have to be made within two years of graduation and successful application to speciality training posts is more likely if students and trainees have structured their learning and experiences towards their final goal. Career support programmes and personnel are available at medical school to assist with this.

Medical students at UK medical schools who are from overseas and do not have right of residence must check how the latest information on visa requirements affects their postgraduate training period. Please see the UK Border Agency website: www.ukba.homeoffice.gov.uk

Information about medical careers after graduation is correct at the time of going to press. For up-to-date information please visit: www.mmc.nhs.uk

Medicine



Entry requirements A100

Please always check our website at www.keele.ac.uk/health/schoolofmedicine/ for the most up-to-date details of our entry requirements.

UKCAT

All applicants must take the UK Clinical Aptitude Test (UKCAT) in the year of application for A100 and A104. Further information regarding this test can be found at www.ukcat.ac.uk

AS and A-levels required

Three A-level subjects are required. Of these, Chemistry or Biology is essential, plus one subject from Chemistry, Biology, Physics or Mathematics, plus one further rigorous academic subject if only two sciences are offered. In addition, a fourth AS-level grade B or above is required, Maths with Further Maths or Biology/Human Biology with PE will not be accepted in combination. If Chemistry is not taken at A-level, it must be offered at AS-level, grade B minimum. General Studies, Critical Thinking and Applied subjects are not accepted at A-level, please see our web pages for a full list of excluded subjects. If only two sciences are offered, the science subjects not offered at AS/A-level are required at GCSE level, grade B or above.

Grades required

At Advanced Level (A2), we require grades of A* AB/AAA, from three A-level subjects taken after two years of study.

GCSEs required

Science/Core Science plus Additional Science or Chemistry, Physics and Biology English Language and Mathematics (grade B minimum) are essential. A broad spread of subjects is expected at GCSE with a minimum of four grade A passes.

Achieved A-level grades

Students applying with known A-level grades will be considered even though their GCSE grades do not reach the previously mentioned standard, with the exception of Mathematics, the Sciences, and English Language where minimum B grades are required.

International Baccalaureate (IB)

Students undertaking the International Baccalaureate (IB) will be asked to achieve the IB Diploma with a score of at least 35 points from six academic subjects. Subjects should include Chemistry or Biology, plus one from Chemistry, Biology, Physics or Mathematics and a third rigorous subject at higher level. Any science not taken at the higher level must be offered at subsidiary level or GCSE. Three grade 6 passes at IB Higher level and grades 6, 6, 5 at subsidiary level are normally required. Points awarded for the Extended Essay or Theory of Knowledge are not taken into account.

European Baccalaureate

Applicants must offer Mathematics ('5 hours' or '8 hours') plus at least one science option. Must include Chemistry. Overall we require a final result of 78%.

Students not offering GCSE English language or IELTS (International English Language Testing System) with a minimum average score of 7 (with not less than 7 in any one component taken at the same sitting) should contact the Admissions Office.

Irish Leaving Certificate

Students should offer at least five A1 or A2 grades at higher level, to include Biology and Chemistry, plus a sixth at a minimum of B1. Physics should have been studied at junior certificate level as a minimum. Chemistry and one other science at grade A is required.

Advanced Highers (Scottish)

At Advanced Higher level we require grades of AAA from three subjects taken after two years of study. Of these, Chemistry or Biology is essential, plus one subject from Biology, Chemistry, Physics or Mathematics, plus one further rigorous academic subject if only two sciences are offered. Chemistry must be offered at Higher Grade B as a minimum. Alternatively, students may offer two Advanced Highers plus one new Higher at grades AAA, subjects to include Chemistry at Advanced Higher plus one other science at Advanced Higher and a further rigorous subject.

We require a minimum of four subjects at Standard Grade/Intermediate 2, with a good range of subjects including English Language and Mathematics. Any science subjects not offered at Higher/Advanced Higher are required at Standard Grade/Intermediate Level 2 (grade 2 or higher).

Welsh Baccalaureate

We require grades of A* AB/AAA from the baccalaureate and two full A-levels taken after two years of study. Students should pass the Welsh Baccalaureate Advanced Diploma including two science A2-levels, with no grade below B. Chemistry or Biology is essential plus one subject from Chemistry, Biology, Physics or Mathematics. If Chemistry is not taken at A-level, it must be offered at AS-level, grade B minimum.

Resit applicants

Any applicant taking more than two years to complete three A-levels or equivalent will only be considered when they have achieved the required grades at A* AB/AAA. It is not our policy to consider applicants who were unsuccessful at interview the previous year.

Graduate applicants

The School of Medicine will consider applications from graduates who hold or are expected to attain an appropriate science-based upper second class honours degree (Chemical/Biological Sciences preferred). In addition applicants should ensure that they have the relevant subjects at GCSE and A-level as listed. Allowances will be made for those whose A-level grades do not meet the A* AB/AAA criteria, but have achieved an upper second class honours degree in an appropriate Biological Sciences subject. However, we reserve the right to request details from applicants of the content of their degree course if we have concerns about the A-level grades obtained in specific sciences (e.g. Chemistry). Graduates should also have GCSE English Language, Mathematics and the sciences at a minimum of grade B.

Graduates with upper second class honours degrees in other disciplines may be considered on the basis of their science A-levels, or for the Health Foundation Year (A104) if they have not taken the sciences to A-level standard or higher. Those applicants requesting consideration of qualifications equivalent to the sciences at A-level should note that they must provide this information to the Admissions Office at the same time they submit their UCAS application.

Access to Medicine and other qualifications

We are pleased to receive applications from applicants who are taking a recognised Access to Medicine course. For information, please refer to the Admissions Manager or see our website.

International applicants

Keele University School of Medicine will consider applications from international students who are overseas for fees purposes. We will have approximately 10 places available for entry in 2013.

International students will be subject to the standard admissions procedure that involves application through UCAS. Shortlisted candidates are required to attend an interview. Currently, these are held at Keele University School of Medicine, Staffordshire, UK.

All applicants should offer qualifications equivalent to the GCSE and A-level requirements. Applicants will be expected to provide evidence of the equivalence of their qualifications; this should be sent directly to the Admissions Office after submitting the UCAS application. International students offering the International or European Baccalaureate should refer to the relevant section of the prospectus or our web pages. English Language requirements are grade B at GCSE or IELTS with a minimum average score of 7 (with not less than 7 in any one component taken at the same sitting).

Work experience

All applicants are required to have undertaken work experience in a caring role; this need not be hospital or general practice-based.

We encourage applicants to tell us how they became involved in such work, for how long, how much time they spent each week, and, most importantly, what they gained from it.

Criminal Record Bureau (CRB) checks

Applicants offered a place on this degree programme will also be required to apply, through the University, for an Enhanced Disclosure from the Criminal Records Bureau (CRB) (see page 284). The University follows the CRB Code of Practice in these issues (see www.crb.gov.uk) and can provide a copy of this Code on request. The University also has a policy on the recruitment of ex-offenders. It should be noted that having a criminal record is not necessarily a bar to obtaining a place on this course. However, failure to disclose relevant details is likely to result in withdrawal of the offer of a place.

Immunisation/health requirements

All applicants who are given an offer of a place must complete a satisfactory health questionnaire by 30th June 2013, which is sent out to applicants with the offer letter. All required immunisations will take place post-registration through our Occupational Health Unit.

Semester dates

In modules 1 and 2, semester dates are as normal. However, in modules 3-5 longer semester dates are in operation. Full details are available on the medical school website at www.keele.ac.uk/health/schoolofmedicine/

In common with other medical schools, students may expect some travel costs associated with placements throughout the course. Students will also need to purchase white coats and a stethoscope for laboratory work.

All courses are continually being improved and some details may change. For the most up-to-date course information and admissions requirements, please see our website: www.keele.ac.uk/health/schoolofmedicine/

Point of pride

In module 2, all students undertake a community-based student-selected component (SSC) in which they work with an organisation involved in non-clinical care. These include patient support groups, medical charities, special schools, homeless shelters, groups supporting health and fitness, etc. Students contribute directly to the work of the organisations and learn about their missions, the sections of society they serve, and how they fulfil their roles. The SSC provides an opportunity for students to find out about organisations outside the healthcare system that contribute to the support, rehabilitation and well-being of a wide range of people who have significant needs.

Midwifery

Course: BSc Honours Midwifery*

Entry requirements: See page 283–292

Approximate intake in 2013: 27

Study abroad: Yes

UCAS Single Honours programmes

B720 BSc (Hons) Midwifery*

27 Training Places

B721 BSc (Hons) Midwifery* with Health Foundation Year Health Foundation Year with BSc (Hons) Midwifery* programme leading to professional registration, see page 269.

N.B. We are currently unable to consider international candidates as there are currently no self-funding places.

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Clinical Education Centre
University Hospital of North Staffordshire
Newcastle Road
Stoke-on-Trent
Staffordshire
ST4 6QG

Customer Services

T. 01782 679600

E. nursing@keele.ac.uk

F. 01782 679576

W. www.keele.ac.uk/nursingandmidwifery

All applications via UCAS (www.ucas.com/apply) see page 285.

***The BSc (Hons) Midwifery programme will be presented for validation by the University and NMC in early 2012 and will replace the current award of BMid (Honours).**



The course offers

- Practice-based learning combined with academic study (50/50 division of time)
- Practice in a new Maternity Unit and a range of community settings
- One-to-one mentor support in practice throughout the course
- Facilities for student academic support
- Excellent skills laboratory facilities and experience
- At the time of writing there are no tuition fees but this may be subject to change dependent on future government policy changes. Information about financial support is available on our website

This course leads to professional registration as a Registered Midwife (RM) together with the academic award of an Honours degree in Midwifery. The aim of the programme is to enable graduates to be knowledgeable, caring, competent and accountable midwives able to provide a high quality of woman and family-centred care throughout a woman's pregnancy, childbirth and postnatal experience and to work effectively in a multi-disciplinary team.

The course consists of taught modules offered at Keele School of Nursing and Midwifery. Clinical placements are undertaken in both hospital and community settings.

The ratio of theory to practice is 50:50 in time, emphasis and weighting.

Point of pride

State-of-the-art clinical skills laboratories and health library facilities.

Course content

The full-time, three-year, Single Honours degree programme is a direct entry course leading to professional Midwifery registration. The programme consists of a 45-week year combining classroom- and practice-based learning, with seven weeks annual leave each year.

The BSc (Hons)* programme is designed to develop students into independent learners through a programme of study which combines classroom-based, directed and self-directed learning with full engagement in clinical care, under supervision, to women during their childbirth experience.

In the first year, students will develop the foundation for a comprehensive understanding of the physiological, psychological, social and public health dimensions of normal pregnancy and childbirth. Students will consider the fundamental importance of communication for effective caring and professional relationships and will enhance their skills of spoken and written communication. They will gain insight into the importance of research evidence as the basis for providing optimal care and acquire skills for the critical appraisal and application of research evidence. Students will gain experience of providing care to pregnant women at all stages of pregnancy and in a range of contexts: women's own homes, clinics in the community, hospital and the midwifery birth centre.

This initial foundation will be built on as the course progresses and knowledge developed about conditions that may complicate pregnancy, the impact of these on women, babies and other family members and the skills and the multidisciplinary teamwork required to manage them effectively. The final part of the programme will prepare students for assuming full responsibility as qualified midwives, ready to contribute to further development of midwifery practice.

Throughout the programme, the focus is on gaining the knowledge, clinical skills and critical and reflective perspectives required to provide excellent care for all women and newborn babies, and to optimise women's positive experience of childbirth in all situations.

All modules integrate theory and practice elements and contribute towards preparation for admission to the NMC Professional Register.

“I thoroughly enjoyed the teaching style in this module. The module leader really encouraged us to think and did it in a positive way so that it didn't knock my confidence if I didn't know something.”

Midwifery Student

Placements

The Maternity Unit of the University Hospital of North Staffordshire moved into a new facility in April 2009. It is one of the largest units in the country with a delivery rate of approximately 5,500 babies per year, and it is a designated regional referral centre. Midwives in the community provide most antenatal and postnatal care, as well as care at home births for a small number of women, and students will enjoy several periods of placement with a community midwife. The hospital has the facilities of both a consultant-led delivery suite as well as a midwifery-led birth unit within it. Consequently, midwifery students have a rich learning environment in which they can develop the skills required to care for women who have a normal pregnancy and birth, and those whose pregnancies are more complex.

The Maternity Unit also has a large Neonatal Intensive Care Unit. This provides students the valuable experience of caring for sick and preterm babies.

Students will also gain experience of a range of midwifery-led services, including: antenatal screening, specialist clinics, and support for women with special needs.

Entry requirements

Pre-registration: entry requirements for BSc (Hons) Midwifery*

All candidates for pre-registration Nursing and Midwifery programmes are required to meet or exceed NMC requirements, including literacy and numeracy skills.

Applicants' qualifications that are not listed will be considered on an individual basis. The

School will also consider applicants who hold a relevant degree, higher national diploma or other health-related higher education qualifications. Evidence of recent study within the last five years is desirable.

International candidates who meet residency/academic requirements of UK students but whose first language is not English will need to hold IELTS (International English Language Testing System) with an overall score of 7.

In addition, we prefer applicants to have gained some experience of working with people in a caring environment.

Applicants are advised not to submit a 'mixed' application, but to focus on midwifery.

We are unable to consider late applications i.e. post 15 January.

The UCAS form currently caters for one nominated referee only. It is a requirement for all Nursing and Midwifery applicants applying to Keele to provide a second reference. Reference forms will be included in the interview letter for all shortlisted candidates. All references must be satisfactory to the University (friends, relatives or neighbours cannot be nominated as referees).

“Help and advice was always available.”

Midwifery Student

Midwifery



Register as a midwife (NMC, 2009).

Assessments during the second and third year will contribute to the Honours classification of the degree.

Senior students on the course, who have made satisfactory progress, may wish to undertake an elective clinical placement at another hospital in the UK or explore opportunities abroad. Students will have to self-fund the costs involved, although travel bursaries may be available for students to access.

The School of Nursing and Midwifery is currently arranging affiliation agreements with universities/hospitals/healthcare areas with Australia, Canada, Sweden and Turkey. Opportunities may also be available to undertake clinical placements with a recognised institution or charity.

The NMC monitors all pre-registration programmes.

For the full list of entry requirements, please visit our course information leaflets on the School of Nursing and Midwifery web page at www.keele.ac.uk/nursingandmidwifery

Additional requirements

Candidates who are successful at the initial stage of selection will be required to satisfy Occupational Health clearances and an Enhanced Criminal Records Bureau (CRB) check (see page 284). Candidates who have concerns about any criminal convictions, cautions and/or reprimands, however dated they may be, are strongly advised to contact the School for guidance (Tel: 01782 679557). All such information will be treated in strictest confidence. The University follows the CRB Code of Practice in these issues (see www.crb.gov.uk) and can provide a copy of the Code on request.

Health Foundation Year leading onto BSc (Hons) Midwifery*

BSc (Hons) Midwifery* with Health Foundation Year (B721)

This programme is designed for students who wish to study Midwifery but lack the necessary background qualifications for direct entry onto the main degree programme. Successful completion of the Health Foundation Year leads on to the identified three-year BSc (Hons) Midwifery* programme (four years study in total). Please note that fees are payable for the Health Foundation Year. Further details can be found on page 269.

Teaching and assessment

The majority of the taught sessions for the degree programmes will be held at the School of Nursing and Midwifery based at the Clinical Education Centre (CEC). CEC incorporates a world-class health library that is shared with students within the Faculty of Health and clinical colleagues from local healthcare organisations.

A variety of teaching, learning and assessment strategies are employed including lectures, seminars, tutorials, presentations and groupwork. Students will be expected to be active in their own learning and self-directed exercises are built into the learning programme. All lecturers in the midwifery team are qualified midwives. Teaching is also provided by midwifery practitioners and other members of the School of Nursing and Midwifery and the Faculty of Health.

Assessment is undertaken during placements and by the completion of essays, examinations and individual presentations, as well as an oral examination each year as a basis for grading the integration of practice with theoretical learning.

Student progression through the course depends on successful completion of modular assessments and the achievement of outcomes for entry to the Professional

“It was a very interesting module and felt that my learning was enhanced.”

Midwifery Student

A minimum tariff score of 240-260 points may be offered in the following way:

A-Levels

A-levels (A2s) Any three subjects (excluding General Studies and Critical Training)	The following A-level combinations could be offered as follows: ABE / ACD / ADD / BBD / BCC / BCD	Plus, five GCSEs at C or above including English and Mathematics. Science desirable
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BTEC Nationals

Level 3 Extended Diploma	Health-related	DMM	Plus, five GCSEs at C or above including English and Mathematics. Science desirable.
BTEC ND	Health-related	DMM	
Level 3 National Diploma	Health-related	DD + 1 A-level at C/D grade	
BTEC NC	Health-related	DD + 1 A-level at C/D grade	
BTEC ND	Early years	DDM	
BTEC NC	Early years	DD + 1 A-level at C grade	

Other qualifications included in the tariff

CACHE Diploma in Childcare and Education	Level 3	Overall B Grade	Plus, five GCSEs at C or above including English and Mathematics. Science desirable.
Advanced level	Dual Science Award	B/C + 1 A-level at C/D grade	

Other qualifications (not currently included in the UCAS tariff)

Access to Higher Education Diploma	Health and social care-related	60 credits including 45 at Level 3 and 15 at Level 2 DMP profile (30 Level 3 credits at Distinction)	Combined with Mathematics and English GCSE grade C or above or OCN equivalents.
Access to HE (Medicine and Health Professions)		60 credits including 54 at Level 3 and 6 at Level 2 DMP profile (30 Level 3 credits at Distinction)	
Open University K101/DD101 or DD131+DD132 combined	Health-related	60 points Level 1	Combined with Mathematics GCSE Grade C or OCN equivalents.

Level 3 – Advanced Diploma (from 2010)

The School of Nursing and Midwifery welcomes the development of the new diploma lines. All the advanced diploma lines are accepted and Society, Health and Development is desirable. Level 3 – Advanced Diploma – 200 points including A-level at grade C or above in any subject (excluding General Studies).

Advanced Diploma	Level 3 All diploma lines accepted but Society, Health and Development desirable Additional and/or specialist learning (ASL) to include one A-level subject (excluding General Studies)	Plus A-level grade C or above (excluding General Studies)	Plus, five GCSEs at C or above including English and Mathematics (or agreed equivalents), or Level 2 Higher Diploma at C or above (including Functional Skills: English/ Mathematics and ICT pass). All diploma lines accepted but Society, Health and Development desirable Additional and/or specialist learning (ASL) to include two GCSE subjects at C or above
Progression Diploma	Level 3 All diploma lines accepted but Society, Health and Development desirable	Plus A-level grade C or above (excluding General Studies)	Plus, five GCSEs at C or above including English and Mathematics (or agreed equivalents), or Level 2 Higher Diploma at C or above (including Functional Skills: English/ Mathematics and ICT pass). All diploma lines accepted but Society, Health and Development desirable. Additional and/or specialist learning (ASL) to include two GCSE subjects.

Music

Course: Single Honours, Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 44
(24 Single Honours / 20 Dual Honours)

Study abroad: Yes

UCAS Single Honours programmes

W301 Music

UCAS Dual Honours combinations

NW43 Accounting

TW73 American Studies

FW73 Applied Environmental Science

CW8H Applied Psychology

FW53 Astrophysics

CW73 Biochemistry

FW13 Chemistry

GW43 Computer Science

GW4H Creative Computing

MWX3 Criminology

LW13 Economics

WX33 Educational Studies

QW33 English

PW3H Film Studies

NW33 Finance

FW43 Forensic Science

LW73 Geography

FW63 Geology

VW13 History

LWR3 Human Geography

NW63 Human Resource Management

WG34 Information Systems

LWG3 International Relations

MW13 Law

GW13 Mathematics

PW33 Media, Communications and Culture

FWD3 Medicinal Chemistry

J931 Music Technology

FW83 Physical Geography

FW33 Physics

LW23 Politics

CW83 Psychology

GW73 Smart Systems

W300 **Music with Humanities Foundation Year.**
This four-year degree course is designed for students who wish to study Music but lack the necessary background qualifications. See page 271.



The course offers

- **Teaching in a diversity of musics from creative, performance, interpretative, historical and cultural perspectives**
- **Breadth and depth of coverage: staff specialities include classical music, jazz, rock & pop, film & TV scoring, and world music, and approaches including music analysis, history, cultural studies, composition, song writing and performance**
- **Flexible Dual and Single Honours degrees with pathways in performance, musicology and composition, or combinations thereof; Single Honours students may also pursue a pathway in Music Technology; Dual Honours students can combine Music with Music Technology, or with subjects as diverse as Psychology, English, Educational Studies, History, Law, Economics, Mathematics, and Media, Communications and Culture**
- **Innovative and effective teaching methods, which prepare our graduates for careers throughout the music industry, in education at all levels, within a broad range of other professions, and for postgraduate study in Music**
- **Study abroad and scholarship opportunities**
- **Facilities include seven designated electronic studios, performance spaces, lecture and seminar rooms, a dedicated Music Library within the main university Library, extensive collections of books, scores, CDs and DVDs, and purpose-built practice rooms.**
- **24/7 access to practice and electronic studio facilities**
- **The 2008 Research Assessment Exercise rated 82% of research undertaken in Music and Music Technology at Keele as ‘world leading’ or ‘internationally excellent’, the highest rating of any research group at Keele University.**
- **Music and Music Technology at Keele are rated in the ‘Top Ten’ for overall students’ satisfaction by the 2011 Guardian and Times University Guides.**

Music at Keele is situated in the early 19th-century Clock House (a listed building in a scenic part of the campus) and the modern Lindsay Studios complex. Its Dual and Single Honours Music courses provide advanced musical training while stimulating critical and creative thinking, teaching key study skills, and developing students' ability to work independently and as part of a team.

Recent External Examiner's reports have praised an 'attractive and distinctive research-led programme that not only nurtures critical and creative thinking but also furnishes its students with a range of skills that are both pertinent to the discipline and valuable in the wider professional arena', that 'staff are enthusiastic and actively engaged with the content, delivery and refinement of the course', and that Music's 'courses are well-designed and delivered and offer excellent breadth and depth'.

The rigorously planned modular basis of the courses allows great flexibility in choice of topic alongside opportunities for specialisation. Students can pursue their own particular interests through pathways in performance, musicology and composition; on the Single Honours degree they can also follow a pathway in Music Technology by taking modules on Music's sibling programme. Other examples of pathways include a 'rock and pop' pathway proceeding from year 1 to year 3 (Popular Music, Lyrics and the Popular Song, Songwriting, with linked sibling modules including Sound Recording and Indian Music) and the music analysis pathway (Active Listening, Theory and Analysis, Analysing Musical Narratives).

There is a strong performing tradition at Keele. Active participation is expected of most students in performing groups such as the Keele Philharmonic Orchestra, Keele Philharmonic Choir, Keele Bach Choir and Keele Concert Band. Many other performance opportunities also exist, with student-directed ensembles ranging from recorder groups to rock bands.

Music runs a programme of recitals and research seminars with visiting speakers and performers, and there are regular opportunities for student participation in workshops and concerts. Keele Concerts Society runs an additional professional concert series and students are eligible for concessions at these events, which feature an international array of critically acclaimed performers. In addition, there is an increasing range of events and concerts in the local area, with Glyndebourne Touring Opera, for instance, being a regular visitor to the Regent Theatre. The major concert halls in

Liverpool, Manchester and Birmingham are also within easy reach, and Music runs regular trips to concerts and musical events in the surrounding area. Folk Club and the Union, and other venues in the local area, offer open mic nights and gigging opportunities.

For information about the revised range of entry routes to Music, including the non-performance pathway and entrance for students with non-traditional musical backgrounds, see page 292.

Instrumental lessons

Instrumental or singing lessons are available to all students during the first year at the rate of 12 hours of tuition per year (unless they have opted for a non-performance pathway), while all students taking recital electives receive lessons in subsequent years. Currently, students taking Solo Performance in the second year receive 12 hours of lessons and 24 hours of small group work, and finalists taking a double recital receive 14 hours of lessons in addition to a very significant amount of additional small group teaching and coaching throughout the academic year.

In the vast majority of cases, lessons are given at Keele by visiting instrumental and vocal teachers.

Scholarships

The following scholarships are open to competition:

- Digital Village Music and Music Technology Scholarships. Four scholarships for students providing technical and ambassadorial support during Music and Music Technology Open/Visit Days
- Chapel Music scholarship, for an organist or musical director
- St John's, Keele Choral scholarship for a conductor
- Montford scholarship, for an instrumentalist or vocalist
- Orchestral Leader scholarship, offered by the Keele Philharmonic Society
- Audely and District Male Voice Choir scholarship, for first and second year singers (male or female)
- Clough Hall Technology School instrumental tuition fellowships

Further details can be obtained from the Music undergraduate administrator.

Course content Single Honours

Please note that modules may vary from year to year.

Year 1

You will take core modules and optional electives designed to equip you with core knowledge and expertise in a broad range of music while developing your analytical, practical, theoretical and scholarly skills.

Core modules

20th-century Musics examines key moments in a plurality of musics since 1900 including concert music, jazz, rock and film music, and introducing music by a diversity of important living musicians.

Active Listening, a theory and analysis module designed to promote active listening and to develop your knowledge of musical forms.

Sonic Arts Repertoire introduces electroacoustic music and sonic arts from the earliest experiments through to installations.

Composing with Sound introduces creative work in the studio.

Electives

Unless you opt for the non-performance route from the first year, you will be expected to take the elective Instrumental Lessons, a module in performance relating to vocal or instrumental tuition. An optional module is also available in Ensemble Performance (including opportunities in conducting). You can also get further credits through elective modules reflecting participation in the orchestra, concert band and choir.

Additional optional modules currently include:

Popular Music examines music in the rock and roll tradition from a variety of musical and sociological perspectives.

Introduction to Composition develops your creative and technical skills in composition by introducing you to techniques from recent music.

Introduction to Music Theory, a theory primer for students from non-traditional backgrounds.

Understanding Culture, an introduction to cultural theory.

Sound Recording develops skills in studio recording and music studio production.

Music

Analog and Digital Audio, an exploration of the theoretical basis of acoustics, electroacoustics and digital audio.

Surround Sound explores the theory, practice and aesthetics of multi-channel surround sound applications.

Year 2

You begin to weight your studies towards your key interests. You can choose from a range of optional modules.

Solo Performance develops confidence through regular class performances, hones your critical awareness and culminates in a 20-minute recital. It includes opportunities in accompanying, conducting and chamber music performance.

Chamber Music investigates through performance and critical listening ensemble music from the Western art music repertoire.

Composition Studies: Intermediate Composition provides a forum for the discussion and development of various aspects of your musical language.

Composition Studies: Contemporary Orchestration focuses on orchestration practice and techniques through detailed study of scores and recordings.

Creative musicians with an interest in popular music may also be interested in the **Lyrics and Song Writing** module.

Musicological second year electives currently include:

Music in German Culture examines the special place of Austro-German music across a range of media including concert music, opera, film and the musical.

Music in the Community, a module in which students work with groups in the local area on creative and performance projects.

Stravinsky, an in-depth study of the music, writings and cultural contexts of one of the 20th century's most important and fascinating artists.

Theory and Analysis, an introduction to tonal and post-tonal music theory.

Unheard Melodies? Music in the Narrative Film explores the narrative and ideological roles of music in cinema.

Indian Music explores the diversity of musics associated with one of the world's most musical countries and its cultural communities.

For students wishing to continue a pathway in Music Technology, optional modules include:

- *Creative Sound Design*

- *Computer Video*

- *Interactive Realtime Composition*

Year 3

You will be able to specialise in performance, composition or musicology; you may also continue a pathway in Music Technology. Modules are chosen reflecting your preferred pathway and musical focus.

Recital develops and refines your technical skills in preparation for a 40-minute public recital; intensive coaching in class and individual tuition occur alongside opportunities for recording and a study of the role of programme notes and programme construction.

Composition 2 leads to the completion of four contrasting works or two substantial works, and develops your individual potential in original musical composition.

Songwriting develops song and lyric writing skills developed in earlier modules and leads to the completion of a contrasting portfolio of original songs in the rock and pop tradition.

The final year musicology electives currently include:

Independent Dissertation study, in which students pursue an in-depth piece of work on a musical topic of their own devising (recent topics have included the scores to movie remakes, Elgar, Britpop and the future of the orchestra).

Research in Music Psychology examines debates in the field of music psychology through a practical, hands-on, research-based approach.

Narrative, Music and Meaning and Analysing Musical Narratives, theory and analysis modules examining music's ability to tell stories through sound concerning its creators, socio-cultural contexts and listeners.

Paris 1889-1939, a study of musical aesthetics and cultural history in a specific time and place.

Contextual Studies examines music's social and cultural functions, plus recent developments at the forefront of musicology.

Students continuing a Music Technology pathway into their final year can take electives including Colloquia in Electronic Music, a module consisting of a series of seminars for discussion of general issues relating to music technology, such as gender, commercial success of particular genres, socio-political issues, technology and creativity. Other electives include Colloquia in Electroacoustic Music and Digital Arts Creative Portfolio.

Course content Dual Honours

Please note that modules may vary from year to year.

For descriptions of these modules, see Course content Single Honours.

During the first year you will take core modules and optional modules designed to equip you with core knowledge and expertise in a broad range of 20th-century music, developing your analytical, practical, theoretical and scholarly skills.

Core modules

- *20th-century Musics*

- *Active Listening*

Electives

Unless you opt for the non-performance route from the first year, you will be expected to take the option Instrumental Lessons, a module in performance relating to vocal or instrumental tuition.

An additional optional module is also available in Ensemble Performance (including opportunities in conducting).

Students can also get further credits through elective modules reflecting their participation in the orchestra, concert band and choir.

Other optional modules currently include:

- *Popular Music*

- *Introduction to Composition*

- *Introduction to Music Theory*

Year 2

You begin to weight your studies towards your key interests. You can choose from a range of optional modules.

- *Solo Performance*

- *Chamber Music*

- *Composition Studies: Intermediate Composition*

- *Composition Studies: Contemporary Orchestration*

Creative musicians with an interest in popular music may also be interested in the **Lyrics and Song Writing** module.

Musicological second year electives currently include:

- *Music in German Culture*

- *Music in the Community*

- *Stravinsky*

- *Theory and Analysis*

- *Unheard Melodies? Music in the Narrative Film*

- *Indian Music*

You will be able to specialise in performance, composition and musicology. Modules are chosen reflecting your preferred pathway and musical focus.

- *Recital*

- *Composition 2*

- *Songwriting*

The final year musicology electives currently include:

- *Independent Dissertation*

- *Research in Music Psychology*

- *Narrative, Music and Meaning and Analysing Musical Narratives*

- *Paris 1889-1939*

- *Contextual Studies*

For further information regarding the courses, please contact the Music administrator by telephoning 01782 733295 or by emailing music@mus.keele.ac.uk or refer to the web page at www.keele.ac.uk/music

Study Abroad

All music students have the opportunity of spending a semester in their second year at one of our partner universities in North America, South Africa or Australia.

Teaching and assessment

Teaching in Music at Keele is innovative and diverse. From the first year students will be taught in a mixture of lectures, seminars, workshops and tutorials. Students will participate in group discussions (including blogs and discussion threads in the online learning environment WebCT), individual and group presentations, and submit coursework ranging from weekly assignments to substantial dissertations on topics of students' own choosing.

Modules are usually assessed by essays, portfolios of written work and projects. Exceptions include modules assessed solely by performance, online tests, compositional portfolios, dissertation and an examination in the third year.

Skills and careers

In addition to enhancing specific musical skills, a degree in Music develops a wide range of transferable skills in, for instance, presentation, writing, critical thinking and organisation, while offering invaluable experience in teamwork. All our graduates share a broad range of interests and abilities attractive to employers. Keele Music students have found careers in arts administration, the BBC (as researchers and studio engineers), orchestras, recording companies, publishing, game design, film and television, and the regional authorities. Other career options include teaching, music therapy, librarianship and further research. Some students, of course, choose to pursue careers outside music, and Music graduates are highly prized for their unique transferable skill set by professions including accountancy, law, computer programming, actuarial work and journalism.

A Dual Honours degree in Music and Music Technology, or a Single Honours degree in Music including a pathway in Music Technology, opens up a vast range of career possibilities. Students taking Music Technology in combination with Music at Keele obtain unique and wide-ranging musical and technical expertise, thereby increasing their employability and options in areas such as sound design, software design and recording studio work. In addition, they acquire the necessary skills for work as freelance sound designers for applications such as games and video, television and film. Performers, composers and music scholars also benefit greatly from developing their hands-on experience of technologies ranging from grand pianos to mixing desks.

Some more ideas...

See also: Music and Educational Studies, page 117.

Music students can take a Dual Honours degree in Music and Music Technology (see page 207) or, alternatively, pursue a Music Technology pathway as part of a Single Honours Music degree.

Points of pride

- Music received very good results in the latest NSS with overall student satisfaction of 4.4, which is significantly higher than the sector wide of 3.9 points.
- In the most recent research assessment exercise, Music and Music Technology at Keele were the highest rated research group in the entire University.
- Three staff members have been awarded a prestigious Arts and Humanities research Council Fellowships in 2010-2011.

Music Technology

Course: Single Honours, Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 44
(24 Single Honours / 20 Dual Honours)

Study abroad: Yes

UCAS Single Honours programmes

WJ39 Music Technology

UCAS Dual Honours combinations

NJ49 Accounting

TWR3 American Studies

FJ79 Applied Environmental Science

CJ89 Applied Psychology

FWM3 Astrophysics

CW13 Biology

NW23 Business Management

FW1J Chemistry

GWK3 Computer Science

GJ49 Creative Computing

LWC3 Economics

WXH3 Educational Studies

PJ3X Film Studies

NWH3 Finance

FW4H Forensic Science

LWT3 Geography

WV31 History

CJ19 Human Biology

WL37 Human Geography

GJ5X Information Systems

NJ19 International Business

LWF3 International Relations

MWD3 Law

NW53 Marketing

PJ39 Media, Communications and Culture

FWC3 Medicinal Chemistry

J931 Music

BW13 Neuroscience

WV35 Philosophy

WF38 Physical Geography

FWH3 Physics

CWV3 Psychology

GJ79 Smart Systems

LW33 Sociology

J930 **Music Technology with Humanities Foundation Year.** This four-year degree course is designed for students who wish to study Music Technology but lack the necessary background qualifications. See page 271.



The course offers

- The study of Music Technology and Digital Arts within their historical, social, aesthetic and technical contexts
- The opportunity to work in different studio environments and to gain experience in composition, recording and production, programming and performance in a multi-speaker projection system
- Study as a Single Honours or combined with Music or any other subject within the Dual Honours programme
- Staff expertise in contemporary music, sonic arts, composition, music technology, audio-visual art, music programming, a range of 20th-century music and their precursors, and in cultural studies

Music Technology is situated in the early 19th-century Clockhouse in a scenic part of the campus. Its facilities include eight designated studios, lecture and seminar rooms, purpose-built practice rooms and a multi-speaker system for audio-visual concerts and events.

Music Technology at Keele aims to provide musical and technical training, and to encourage critical thinking. There are opportunities in the final year for specialisation in composition, recording and production, sound design, audio-visual work and programming. Music Technology has a programme of visiting speakers and performers, and there are opportunities for participation in workshops and concerts. There is a strong performing tradition at Keele. Students can join a number of performing groups, including the Keele Philharmonic Orchestra, Keele Concert Band, Keele Big Band, Chapel Singers, Keele Bach Choir and Keele Recorder Ensemble.

Full details of the current modules and activities are available from the Music Technology undergraduate administrator.

Scholarships

The following scholarships are open to competition:

- Digital Village Music and Music Technology Scholarships. Four scholarships for students providing technical and ambassadorial support during Music and Music Technology Open/Visit Days
- Two Chapel Music scholarships: one for a choir conductor and one for an organist
- Montford scholarship, for an instrumentalist or vocalist
- Orchestral Leader scholarship, offered by the Keele Philharmonic Society
- Audely and District Male Voice Choir scholarship, for first and second year singers (male or female)
- Clough Hall Technology School instrumental tuition fellowships

Further details can be obtained from the Music Technology undergraduate administrator.

Course content Single Honours

Year 1

You will take core modules in **Analog and Digital Audio, Sonic Arts Repertoire, Twentieth-century Musics and Active Listening** that aim to develop theoretical knowledge and practical skills. You can also choose electives from Music Technology to reflect your particular interests: sound recording, composition, performance and the study of film music. You can also get credits for participating in the orchestra, choir and concert band.

Examples of electives*

- *Composing with Sound*
- *Sound Recording*
- *Surround Sound*
- *Audio Electronics*
- *Digital Video*
- *Music on Stage and Screen*
- *Introduction to Composition*
- *Reading Film*
- *Popular Music*
- *Photographic Image*
- *Introduction to Music Theory*
- *Instrumental Lessons*

Year 2

In addition to core modules in **Computer Video, Digital Audio, Creative Sound Design and Meaning in Sonic Arts** you can select pathways in Performance and Composition.

Examples of electives*

- *Audio-visual Composition*
- *Interactive Realtime Composition*
- *Lyrics and the Popular Song*
- *Contemporary Orchestration*
- *Indian Music*

Year 3

At Level 3 all students take an independent double-weighted project, focusing on creative work in digital arts, software design or composition. You can select from a wide range of Music.

Technology modules including:

- *Digital Arts Creative Portfolio 1*
- *Digital Arts Creative Portfolio 2*
- *MAX-MSP*
- *Music Programming*
- *Colloquia in Electronic Music*

Your choice of electives also includes Dissertation, Performance and Composition. This degree opens up new combinations, allowing you to focus in areas such as performance and creative work.

Course content Dual Honours

Year 1

During the first year, you will take specialist core studies in the history and aesthetics of various forms of sonic arts and practical and theoretical modules in analogue and digital audio.

Examples of electives*

- *Composing with Sound*
- *Sound Recording*
- *Surround Sound*
- *Audio Electronics*
- *Digital Video*
- *Music on Stage and Screen*
- *Introduction to Composition*
- *Reading Film*
- *Popular Music*
- *Photographic Image*
- *Introduction to Music Theory*
- *Instrumental Lessons*

Year 2

In addition to core modules in the aesthetics and theory of digital art, the second year consists of modules on advanced techniques in computer music and sound design (e.g. sound synthesis, granular techniques, sound transformations), as well as multimedia work, particularly in the audio-visual domain.

Examples of electives*

Autumn Semester

- *Creative Sound Design*
- *Computer Video*

Spring Semester

- *Interactive Realtime Composition*
- *Audiovisual Composition*

Year 3

You will have a number of options to suit your interests and strengths, which range from original creative work, such as composition, recording and production, sound design and audio-visual work, to software instrument design and computer programming for musical applications. You can also take a module consisting of a series of seminars for discussion of general issues relating to music technology (e.g. commercial success of particular genres, socio-political issues, gender, technology and creativity, etc.).

Points of pride

- Music Technology received very good results in the latest NSS with overall student satisfaction of 4.4, which is significantly higher than the sector wide of 3.9 points.
- In the most recent research assessment exercise, Music and Music Technology at Keele were the highest rated research group in the entire University.
- Three staff members have been awarded a prestigious Arts and Humanities research Council Fellowships in 2010-2011.

Music Technology

Examples of electives* (Single or Double Honours)

Music Programming

- *Colloquia in Electroacoustic Music*
- *Computer-aided composition*
- *MAX/MSP*
- *Digital Arts Creative Portfolio 1*
- *Digital Arts Creative Portfolio 2*
- *Research in Music Psychology*

* Please note that modules may vary from year to year.

Study Abroad

All music students have the opportunity of spending a semester in their second year at one of our partner universities in North America, South Africa or Australia.

Teaching and assessment

Most of the learning activity is carried out by means of practical creative work in the Music Technology studios. Teaching is mainly by seminars, workshops, tutorials and a comprehensive array of web-based learning resources and video learning material. For details of the eight studios and relevant equipment see the Music/Music Technology website at www.keele.ac.uk/music

Teaching of studio techniques in the first year is organised in modular studio tasks to accommodate both learners with little previous experience and more advanced users.

Most modules are assessed by creative practical projects in the studios. Some modules are assessed by performance or essay.

Skills and careers

Our Music Technology graduates are equipped to pursue careers involving technical work, such as broadcasting, recording, production, sound design, soundtrack creation (e.g. film) and software design, as well as original audio and audio-visual composition or studio work. In addition, they acquire the necessary skills for work as freelance sound designers for applications such as games and video.

Some more ideas...

See also: [Music Technology and Computer Science, page 97](#); [Music Technology and Creative Computing, page 101](#).



Neuroscience

Course: Dual Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 45

Study abroad: Yes

UCAS Dual Honours combinations

NB41	Accounting
BT17	American Studies
FB71	Applied Environmental Science
CB81	Applied Psychology
BF15	Astrophysics
BC17	Biochemistry
BF11	Chemistry
BG14	Computer Science
GB41	Creative Computing
BM19	Criminology
BL11	Economics
BX13	Educational Studies
BQ13	English
PB3D	Film Studies
BN13	Finance
FB41	Forensic Science
BF18	Geography
BF16	Geology
BL17	Human Geography
BN16	Human Resource Management
BG15	Information Systems
BLC2	International Relations
BM11	Law
BG11	Mathematics
PB31	Media, Communications and Culture
BFC1	Medicinal Chemistry
BW13	Music Technology
BFC8	Physical Geography
BF13	Physics
BL12	Politics
BC18	Psychology
GB71	Smart Systems
B143	Neuroscience with Science Foundation Year. This four-year degree course is designed for students who wish to study Neuroscience but lack the necessary background qualifications. See page 273.



The course offers

- A fascinating subject at the cutting edge of biomedical research
- Relevance to medicine and industry
- Participation in multi-disciplinary research
- An inter-disciplinary study of the brain and nervous system

Neuroscience is the study of the most intricate control system in the body, the nervous system. Our nervous system gives us the ability to sense the environment and to react to it. Ultimately all human behaviour, whether conscious or unconscious, stems from the processes occurring in the complicated networks of nerve cells that form our brain and spinal cord.

The Neuroscience course at Keele is designed to equip students with a broad-based understanding of the principles of Neuroscience and is taught by tutors who are active researchers. Students will learn about the structure and function of the nervous system, the action of drugs and the molecular biology of neurological diseases or disorders.

The course includes practical classes that provide first-hand experience of neuroscience, anatomy and physiology. Students will also carry out a research-based project, supervised individually by one of the course tutors and making use of the excellent research and library facilities available.

We have many contacts with local hospitals and with Keele's School of Medicine, which provide an opportunity for students to link their studies through to health and medicine.

Course content

Year 1

You take core modules that provide the basic background needed for the subsequent years.

Introduction to Neuroscience covers key concepts of neuroanatomy and neurophysiology and includes the basis of sensory and motor systems.

In **Human Physiology and Pathology** you learn about the other major systems of the body and how specific diseases and abnormalities can impair function.

Cell and Molecular Biology examines the molecules and structures behind biological and neural function in more detail.

Genetics and Evolution deals with the fundamentals of inheritance and evolution.

Year 2

From Neurone to Brain builds on the first year modules by covering in depth the principles and techniques of Neuroscience, from single cells to neuronal networks.

Development and Evolution of Nervous Systems takes you through the embryonic development of the vertebrate nervous system and how the brain has evolved.

The **Research and Analytical Skills** module provides you with key skills such as the use of databases and statistical tools in research.

In **Human and Animal Cognition** we describe a range of adaptations that underlie behaviour. We begin by studying how animals learn, think and communicate, and later compare these with human abilities.

Year 3

The modules feature to a greater extent current research in Neuroscience.

In **Neurobiological Basis of Brain Disease** you study disorders and diseases of the nervous system and evaluate current research into potential mechanisms of dysfunction.

Behavioural Neurobiology provides a detailed study into the neurological mechanisms underpinning complex behavioural functions, such as learning, memory, and executive function.

Neurobiology of Vision and Hearing provides an in-depth look at the anatomy and physiology of visual and auditory sensory systems.

In **Regeneration and Repair in the Nervous System** you study how the nervous system regenerates following injury, and study cutting-edge research in neurotransplantation across a range of neurological disorders.

You will also do a research project or dissertation, chosen from a wide range of topics, offering a practical insight into current Neuroscience research.

Major Route

In the final year, students will be able to specialise in Neuroscience. In addition to the modules mentioned above, they will also be able to do a more in-depth experimental project coupled with a module on new and emerging research in Neuroscience.

Four-year courses

Science Foundation Year and sandwich course

It is possible to add a fourth year to the course in order to tailor it to suit individual needs. There are essentially two ways in which this can be done:

- add a Science Foundation Year prior to the start of the course
- take a sandwich course, by including an industrial placement after the second year

Only one of these options can be selected.

Sandwich course

We offer BSc students the opportunity to undertake a 48-week placement at the end of their second year, in an approved government or industrial establishment or field centre. This placement year can provide not only practical skills training, but also valuable transferable skills and time for personal development.

The experience gained may prove particularly beneficial when students return to University and in the early stages of their careers. While we will attempt to find suitable placements, this cannot be guaranteed and students will be encouraged to make their own contacts, which we will need to check. Students will be required to reach defined standards in their second year assessments to become eligible for the sandwich year. Those not reaching this standard, or not able to find a suitable placement, will remain on the three-year course.

Alternatively, if choosing the sandwich option, students can spend that year working at one of 16 European laboratories under the ERASMUS work placement scheme.

Study Abroad

Students can also opt to spend a semester in their second year at one of our partner universities in North America, South Africa or Australia.

“This course is one always at the frontier of new discoveries. Whether looking at the causes of Alzheimer’s or the complex process of neural development, there is always something new and interesting to learn.”

E Tittley,
Recent graduate in Neuroscience

Neuroscience

Teaching and assessment

The course is taught by a combination of lectures, laboratory classes, tutorials and seminars with interactive computer-aided learning to provide additional back-up to the more formal group teaching. Students will be assessed by a combination of essays, practical work, continuous assessment and examinations.

Skills and careers

The Neuroscience course has been developed to promote student interest in the subject, and to provide practical knowledge and skills to complement conceptual learning. By the end of the course students will be well equipped to pursue further research opportunities either via postgraduate pathways (e.g. PhD) or via research careers in the private and academic sector. As well as learning about the fundamentals of Neuroscience and developing interest in this fascinating field, students will acquire a whole range of skills that will be useful in any career. These include: organisational skills in collecting and organising information from many different sources; planning skills; the ability to present information clearly and coherently, both in written reports and giving talks; manipulative skills in carrying out delicate practical work; and numerical skills in the handling of data. Students will also develop a scientific and analytical approach to solving problems that can be applied in many different situations, and will be of great value to an employer.

The most popular science subject combinations with Neuroscience are Psychology, Biochemistry and Computer Science. These combinations offer opportunities for careers in, for example, medically related psychology, the chemical and pharmaceutical industry or in IT, and many students develop interests that lead to a higher degree and a career in research. However, non-science combinations with Neuroscience also offer a wide range of opportunities, for example combining with Finance or Economics puts students in a unique position for a career in the modern health service as it would underpin both the business and the scientific side of health management and administration.

Some more ideas...

Neuroscience and Psychology

Not surprisingly, a combination between Neuroscience and Psychology Principal subjects is almost an ideal one and consequently it is extremely popular. If this combination is chosen, students will gain an understanding of the anatomical and physiological basis of human behaviour. They will learn the modern science of genetics, which in turn defines the limits within which the human body and brain develop. The way in which individual nerve cells work to produce emergent properties of perception, learning and consciousness itself will throw a completely different light on Psychology from that of the social sciences, but in a way that is entirely complementary. This combination of Principal subjects offers the opportunity of gaining a fuller understanding of the human condition than could be obtained from either subject studied alone.

Neuroscience and Criminology

This is a combination that could be considered an unusual if highly enlightened one! In Neuroscience, students will study the workings of the brain, consciousness and the basis of all human behaviour. They will also learn about a range of neurological illnesses that have a bearing on behaviour. Criminology is concerned with particular aspects of human behaviour in considering lawbreakers and their motivations, as well as the response of society to them, for example, policies

in criminal justice such as policing, prosecution and punishment.

While these two seem to be disparate subjects, the combination is in line with the Keele Dual Honours ethos and will give students a broad understanding of human activities from more than one angle. It will provide a unique perspective that students can bring to future careers, whichever path is taken.

Neuroscience and Computer Science

This combination would allow students to integrate two valuable and complementary subjects. Neuroscience is a science subject that relies in many ways on computer science and technology. With this combination students would be uniquely placed at the interface between the brain and the computer, and indeed the brain is often likened to a computer. Computers are at the heart of Neuroscience research, but they are also important in the modern health service and in most walks of life. This combination would work well in research and in the public and private healthcare and science sectors.

See also: Neuroscience and Biochemistry, page 67; Neuroscience and Smart Systems, page 109.

“Fantastic course with a good balance between theory and practical work.”

N Walton,
Recent graduate in Neuroscience

Point of pride

One of our year 2 students obtained a summer bursary from Action on Hearing Loss and she presented her project to the Physiological Society in her final year.



Nursing

Course: BSc (Hons) Nursing programmes

Study abroad: Yes

UCAS Single Honours programmes

B740 BSc (Hons) Adult Nursing

Approximate intake in 2013: 103

B760 BSc (Hons) Mental Health Nursing

Approximate intake in 2013: 27

B761 BSc (Hons) Learning Disability Nursing

Approximate intake in 2013: 14

B730 BSc (Hons) Children's Nursing

Approximate intake in 2013: 16

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All applications via UCAS (www.ucas.com/apply)
see page 285.

The Nursing pre-registration programmes are being re-validated for September 2012 to reflect the new Nursing and Midwifery standards of proficiency (NMC, 2010).



The course offers

- All four specialist fields of Nursing at degree level
- Academic and professional qualifications (BSc [Hons] & RN)
- Practice-based learning combined with academic study (50:50)
- Easily accessible placements (NHS and private/independent)
- Case-based approach gives rich opportunities for linking nursing theory and practice
- Student support for theory and practice www.keele.ac.uk/studentsupport
- Excellent skills laboratory facilities and experience
- At the time of writing there are no tuition fees but this may be subject to change dependent on future government policy changes. Information about financial support is available on our website
- Innovative opportunities to work alongside and learn together with students from within the school via Midwifery and Operating Department Practice, as well as students from other schools like Medicine and Physiotherapy

Each Nursing BSc (Hons) course is a degree course combined with preparation for professional registration with the NMC. Each year is composed of three terms to enable completion of theory and practice requirements.

This is a direct entry course leading to professional registration as a Registered Nurse (RN) together with the academic award of an Honours degree.

The aim of the programme is to enable graduates to be caring, competent and accountable nurses who can apply knowledge and deliver a high standard of skilled, safe care in a variety of health and community care settings.

Course content

The three-year Single Honours degree programmes lead to professional nursing registration (RN) in one of the four specialist fields of Nursing. The following fields of Nursing are available at Keele University:

- Adult Nursing
- Mental Health Nursing
- Learning Disability Nursing
- Children's Nursing

The BSc (Hons) programme

The BSc (Hons) programme is designed to develop students into independent learners through a programme of study which utilises both generic and specialist themes. These core themes run through the three years and allow students to develop the requisite skills for both registration with the professional body and the attainment of an academic qualification. The programme will enable students to study their own specialist field of Nursing through the specialist themes and also participate with other students in the study of generic themes to further develop their knowledge and skill base.

The programmes adopt a person centred approach to teaching and learning that ensures service users are the focus of activities and encourages students to develop the knowledge, skills and attitudes required for the delivery of safe and effective nursing care.

All modules integrate theory and practice elements and contribute towards preparation for admission to the NMC Professional Register. (Nursing cannot be combined with the study of another Principal subject.)

The main aims of the degree programmes are to develop nurses who are caring, skilled, reflective, knowledgeable, analytical and accountable practitioners who have achieved the standards and competencies for entry to the Professional Register (NMC, 2010).

Placements

Placements will be undertaken in a variety of hospital and community healthcare settings within local NHS trusts and private organisations. Fifty per cent of course time will be spent focused on learning and assessment in placements working under the supervision of qualified nurses. Placements offer excellent opportunities for inter-professional learning with students from other healthcare disciplines such as Medicine and Physiotherapy. Placements are easily

accessible and North Staffordshire has a good public transport network.

The development of essential clinical skills is an integral part of the degree programmes and students are supported in this through workshops within the Clinical Skills Laboratory as well as during placements.

Senior students on the course, who have made satisfactory progress, may wish to undertake an elective clinical placement at another hospital in the UK or explore opportunities for an international placement. In most circumstances students will have to self-fund the costs involved, although travel bursaries may be available for students to access. However, the school is currently developing potential ERASMUS opportunities which provide student funding.

The School of Nursing and Midwifery is currently arranging affiliation agreements with universities/hospitals/healthcare areas with Australia, Canada, Sweden, Uganda, Tanzania, New Zealand and Turkey. Opportunities may also be available to undertake a clinical placement in another country with a recognised institution or charity.

Hospital Campus

The Clinical Education Centre (CEC), based at the University Hospital of North Staffordshire (UHNS) NHS Trust site is a modern centre for the learning and teaching of clinical education. Both healthcare students and health professionals use this fantastic, state-of-the-art facility. The health library is a friendly, bright space in which to research and explore the study of healthcare.

Also, within the CEC is the Clinical Skills Laboratory, which provides a safe and realistic clinical environment in which clinical skills can be learned, practised and tested. This facility is staffed by enthusiastic, qualified staff, who are able to help students develop those essential skills that all nursing staff need to ensure good quality nursing care. The skills practised here range from simple observation skills through to more complex drug administration skills and procedures such as venepuncture and cannulation.

Viewing of the CEC facilities is available on our Open Days. Please visit our website for up-to-date details of our Open Days held throughout the year:

www.keele.ac.uk/nursingandmidwifery

Also based on this site is the Undergraduate Medical School that houses a modern, well-equipped lecture theatre that is used by Faculty of Health students.

“I have found the nursing degree to be an intensive and rewarding experience. I have learned new skills and had the chance to make friends with many people. I have found Keele to be very supportive of students, giving us the best opportunities to succeed on the nursing degree. I have enjoyed my experience here at Keele University.”

Jane,
2nd Year Mental Health student

Nursing

A-levels

A minimum tariff score of 200-240 points maybe offered for 3 A-levels. A tariff score of 180 points maybe offered for 2 A-levels, B/C minimum			
A-levels (A2s)	Any two/three subjects (excluding General Studies and Critical Thinking)	The following A-level combinations could be offered for 3 A-levels as follows: ACE/ADD/BCE/BC/CCC/CCD	Plus, five GCSEs at C or above including English and Mathematics (or agreed alternative) science and IT desirable.
BTEC Nationals			
Level 3 Extended Diploma BTEC ND Level 3 Diploma BTEC NC BTEC ND BTEC NC	Health-related Health-related Health-related Early Years Early Years	MMP MMP DM DM MMM DD	Plus, five GCSEs at C or above including English and Mathematics (or agreed alternative) science and IT desirable.
Other qualifications included in the Tariff			
CACHE Diploma in Childcare and Education	Level 3 (18 units)	Overall C Grade	Plus, five GCSEs at C or above including English and Mathematics (or agreed alternative) science and IT desirable.
Advanced Level	Dual Science Award	B/C	Plus, five GCSEs at C or above including English and Mathematics (or agreed alternative) science and IT desirable.
Other qualifications (not currently included in the UCAS Tariff)			
Access to Higher Education Diploma	Health and social care-related	60 credits including 48 at Level 3 and 12 at Level 2 (MMP profile).	Combined with Mathematics GCSE grade C or above, or OCN equivalent (or agreed alternative).
Access to Higher Education	Medicine and health professions	60 credits including 48 at Level 3 and 12 at Level 2 (MMP profile).	
Open University K101/DD101 or DD131 + DD132 combined	Health-related	60 Points at Level 1	Combined with Mathematics GCSE Grade C/Level 2 agreed alternative.

Level 3 – Advanced Diploma (From 2010)

The School of Nursing and Midwifery welcomes the development of the new diploma lines. All the advanced diploma lines are accepted and Society, Health and Development is desirable. Level 3 – Advanced Diploma – 200 points including A-level at grade C or above in any subject (excluding General Studies)			
Advanced Diploma	Level 3 All diploma lines accepted but Society, Health and Development desirable. Additional and/or specialist learning (ASL) to include one A-level subject (excluding General Studies).	Plus A-level grade C or above (excluding General Studies).	Plus, five GCSEs at C or above including English and Mathematics (or agreed equivalents) Science and IT desirable. Or Level 2 Higher Diploma at C or above (including Functional Skills: English/Mathematics and ICT pass). All diploma lines accepted but Society, Health and Development desirable. Additional and/or specialist learning (ASL) to include two GCSE subjects at C or above (Science desirable).
Progression Diploma	Level 3 All diploma lines accepted but Society, Health and Development desirable.	Plus one A-level C grade subject (excluding General Studies).	Plus, five GCSEs at C or above including English and Mathematics (or agreed equivalents). Or Level 2 Higher Diploma at C or above (including Functional Skills: English/Mathematics and ICT pass). All diploma lines accepted but Society, Health and Development desirable. Additional and/or Specialist Learning to include two GCSE subjects (Science desirable).
For the full list of entry requirements, please visit our course information leaflets on the School of Nursing and Midwifery web pages, www.keele.ac.uk/nursingandmidwifery			

Nursing pre-registration: entry requirements for BSc (Hons)

All candidates studying for qualifications covered by the UCAS Tariff will be expected to meet a Tariff score of between 200-240 points. The exact Tariff score you will be required to meet will be determined by your educational profile and your individual application.

Applicants' qualifications that are not listed will be considered on an individual basis. The School will also consider applicants who have a relevant degree, higher national diploma or other health-related higher education qualifications. In these instances, students, following negotiation with the

admissions tutor / programme lead, may be able to study at postgraduate level and exit with a registered nurse qualification and a postgraduate award.

All applicants to pre-registration programmes will be required to meet or exceed any School of Nursing and Midwifery literacy and numeracy requirements.

Evidence of recent study within the last five years is desirable.

International candidates who meet residency/academic requirements of UK students but whose first language is not English will need to hold IELTS (International English Language Testing System) with an overall score of 7.

In addition, we prefer applicants to have gained some experience in care (e.g. work experience while at school/college, caring for family members or voluntary work).

'Late' applications from suitable candidates will be considered if required.

Candidates are advised to apply for one specialist field and not to submit a mixed application.

The UCAS form currently caters for one nominated referee only. It is a requirement for all Nursing and Midwifery applicants applying to Keele to provide a second reference. Reference forms will be included in the interview letter for all shortlisted candidates. All references must be

Nursing

satisfactory to the University (friends, relatives or neighbours cannot be nominated as referees) and should be from a line manager/supervisor or second academic referee.

We are currently unable to consider international candidates and we have no self-funding places.

Additional requirements

Candidates who are successful at the initial stage of selection will be required to satisfy Occupational Health clearances and an Enhanced Criminal Records Bureau (CRB) check (see page 284). Candidates who have concerns about any criminal convictions, cautions and/or reprimands, however dated they may be, are strongly advised to contact the School for guidance (01782 679557). All such information will be treated in strictest confidence.

The University follows the CRB Code of Practice in these issues (see www.crb.gov.uk) and can provide a copy of the Code on request. Candidates must also provide evidence of minimum residency requirements and meet English language requirements (see page 295).

Health Foundation Year leading onto BSc (Hons) Nursing programmes

B742	BSc (Hons) Adult Nursing with Health Foundation Year
B731	BSc (Hons) Children's Nursing with Health Foundation Year
B762	BSc (Hons) Learning Disability Nursing with Health Foundation Year
B763	BSc (Hons) Mental Health Nursing with Health Foundation Year

These programmes are designed for students who wish to study nursing but lack the necessary background qualifications for direct entry onto the main degree programme. Successful completion of the Health Foundation Year leads on to an identified three-year BSc (Hons) programme (four years study in total).

Please note that fees are payable for the Health Foundation Year.

Further details can be found on page 269 or on the website at www.keele.ac.uk/nursingandmidwifery

Teaching and assessment

The majority of the taught sessions for the degree programmes will be held at the School of Nursing and Midwifery based at the Clinical Education Centre (CEC), University Hospital of North Staffordshire NHS Trust, Stoke-on-Trent. The CEC incorporates a world-class health library that is shared with students within the Faculty of Health and clinical colleagues from local healthcare organisations.

A variety of teaching, learning and assessment strategies are integrated into the degree programmes to supplement case-based learning, including lectures, seminars, tutorials, presentations and group work. Nursing lecturers from all branches within the School will facilitate these. Clinical nurse specialists and practitioners from local healthcare providers contribute to the delivery of the programmes as do service users and members from other disciplines. Students are given the opportunity to develop enhanced clinical skills such as venepuncture and cannulation during the programme which puts them in a strong position when seeking employment at the end of the course.

Assessment is undertaken during placements and by the completion of case studies, short clinical exercises, group and individual presentations, essays, examinations and practical skill assessments.

Progression through the course depends on successful completion of modular assessments and the achievement of outcomes for entry to a branch programme and competencies for entry to the Professional Register (NMC, 2010).

Written assignments for modules in the third year will contribute to the Honours classification of the degree. The school has robust quality monitoring systems and has a track record of achieving good categories from the Nursing and Midwifery Council annual monitoring process.

Points of pride

The Clinical Education Centre is a light, airy, 21st Century building, adjacent to modern, local hospitals, with a well-resourced health library and dedicated librarians who enable students to make the most of all the library resources.

The Clinical Skills rooms and laboratories enable students to engage in simulated, practical learning to support their practice experiences, which constitute 50% of the nursing programme.

The School has a robust pastoral care and student support system to ensure that students know there is always help available for their personal and professional development.

“I am studying Mental Health Nursing at Keele (from 2009 to 2012) and the whole experience has far reached my expectations. Whilst studying at Keele University, the support and knowledge base of staff and the excellent facilities based at Keele has provided me with the confidence, knowledge, and nursing skills to become a professional and valued staff nurse. Keele University has also offered me the experience to transfer knowledge into practice where mentors facilitate and enhance your learning even more in various mental health settings. Keele University has been an excellent experience for me and has prepared me to work in collaboration with clients to offer the best in patient care and to enhance my learning further.”

3rd Year Mental Health Student

Nursing: Post-Registration

The School of Nursing and Midwifery is based in the Hospital Campus at the University Hospital of North Staffordshire NHS Trust site. Students studying Post-Registration modules and programmes are based at the Clinical Education Centre and may also attend tutorials and lectures on the main campus site.

Keele University School of Nursing and Midwifery
Clinical Education Centre
University Hospital of North Staffordshire
Newcastle Road
Stoke-on-Trent
Staffordshire
ST4 6QG

Customer Services

T. 01782 679600
E. nursing@keele.ac.uk
F. 01782 679576
W. www.keele.ac.uk/nursingandmidwifery

All applications via UCAS (www.ucas.com/apply) see page 285.

Post-Registration Administrator, Val Samways
T. 01782 679654

Director of Postgraduate and Post-qualifying Studies, Mel Humphreys
T. 01782 679696

Post-Registration Admissions Tutor,
Dr Alison Pooler
T. 01782 679659

Application forms can be downloaded at
www.keele.ac.uk/nursingandmidwifery



Facilities

The Clinical Education Centre (CEC) based at the University Hospital of North Staffordshire NHS Trust site is a purpose-built resource that houses state-of-the-art learning and teaching facilities, used to enhance and support the learning experience. Within the spacious and light interior of the building, students will have access to clinical skills laboratories, a variety of rest areas, seminar and meeting rooms, and impressive inter-professional health library and comprehensive IT facilities. Also based on the site is the Undergraduate School of Medicine that houses a modern, well-equipped lecture theatre.

Points of pride

The School has a high standard of academic staff who are also engaged in clinical practice which facilitates effective student learning; along with flexible learning and teaching approaches that are used within the school. This enables further the effective learning of post-registration students who are also working in clinical practice.

The School has excellent clinical skills and library facilities to aid learning and teaching and excellent collaborative working with local NHS Trusts and a clear service improvement agenda within all programmes of study.

Course Content

The Post-Registration portfolio is regularly expanded and updated so please visit our website for more details on modules and programmes that are available.

www.keele.ac.uk/nursingandmidwifery

BSc (Hons) Clinical Practice

The programme will offer health and social care professionals the opportunity to study for an undergraduate degree in an area relevant to their professional practice and interests. Practitioners can choose to specialise their degree in one of a range of optional pathway modules, or select from a range of modules to make up a generic route. The programme will be delivered through a range of blended learning approaches (which will include lead lectures, tutor and student-led tutorials, case study presentations, experiential learning, web resources, and course workbooks).

The programme is designed to be multi-professional, and is therefore attractive to a range of qualified health and social care professionals aiming to gain a first degree.

Aim

The aim of the programme is to support the development and enhancement of essential knowledge and skills in the registered practitioner to equip them to develop their careers in health and social care. This will be actualised through building upon the theoretical and clinical basis of their specialised area of practice, through delivering a coherent programme of study. The clinical pathway options focus specifically on meeting the needs of practitioners working within:

- Acute Care
- Contemporary Issues in Learning Disability
- Contemporary Rheumatology Practice
- Critical Care
- Critical Care in Theatre and Recovery
- End of Life Care
- Generic Route
- High Dependency Care
- Long-term Conditions
- Mental Health and Wellness
- Maternal and Infant Health
- Neonatal Intensive Care
- Paediatric Intensive Care

Each pathway is designed to develop and enhance the individual practitioner's application of specialist theory to their practice area.

Outcomes

On successful completion of the programme, the practitioner will be able to:

- Demonstrate the development of enhancement of skills in intellectual debate, knowledge and skills in clinical reasoning, structured evaluation and problem-solving
- Demonstrate the development of enhanced analytical skills to support individual professional practice development
- Contribute effectively to the development of innovative care delivery, within their practice area, through the development of skills, knowledge and attitudes
- Contribute to the advancement of evidence-based practice and research within the context of contemporary professional and public policies
- Demonstrate critical awareness and understanding of the ways in which personal and professional values and organisational structures affect clinical decision-making and integrated care delivery
- Demonstrate the skills and practical knowledge surrounding communication through an individual and personalised approach to patients, family and colleagues
- Undertake critical analysis of their role and responsibilities within their practice setting and acquire the skills and knowledge to respond to changing practice and expansion of roles
- Demonstrate understanding and enrichment of knowledge for practice, and demonstrate competency within practice area (would exclude generic route)

Successful completion of the course requires: achievement of 120 credits at Level 3.

Entry requirements

- Current registration with a relevant regulatory body
- Working in practice where pathway-specific care is delivered
- Hold an undergraduate degree or Diploma in Higher Education in a related subject

- Minimum of one year practice experience
- Accreditation of Prior Learning considered
- International candidates should have an English Language qualification in written and spoken English. TOEFL (Test of English as a Foreign Language) minimum 600 score or IELTS (International English Language Testing System) 7 score.

Tutorial support

Each student will be allocated a personal tutor. Module leaders and pathway leaders provide additional support.

Course duration, commencement, attendance and cost

The course must be completed within two to five years (part-time).

Each programme has a unique and individual delivery approach utilising a blended learning philosophy and you are advised to contact the specific pathway lead for details of the programme that you are considering studying.

For costs, contact Customer Services
T. 01782 679600

Further information

Further information please visit our website: www.keele.ac.uk/nursingandmidwifery or contact our post-registration team:

Post-Registration Admissions Tutor, Dr Alison Pooler

T. 01782 679659
E. a.pooler@nur.keele.ac.uk

Award Administrator, Val Samways

T. 01782 679654
E. v.l.samways@nur.keele.ac.uk

Operating Department Practice pre-registration

Please note that this is now only available through Staffordshire University

Course: Operating Department Practice

Study abroad: No

UCAS Diploma of Higher Education

B901 Diploma of Higher Education
12 training places

Operating Department Practice

(Keele base cohort entry is a September start date; Staffordshire base cohort entry is a March start date).

This two-year Diploma programme is currently a direct entry course providing eligibility to apply for professional registration as an operating department practitioner.

The programme comprises two years' full-time study and clinical practice leading to the award of Diploma (HE) in Operating Department Practice.

More information can be found by accessing:

www.codp.org.uk

www.hpc-uk.org

For further information please call:

Course Applications Administrator
T. 01785 353795

Course Admissions Tutor
T. 01782 679614

Keele University School of Nursing
and Midwifery Customer Services
T. 01782 679600

Staffordshire University
Main Reception Desk
T. 01785 353766

All applications via UCAS www.ucas.com/apply



The course offers

The Diploma programme has been developed in accordance with professional requirements. The course aims to prepare operating department practitioners who can practise safely, competently and independently and in accordance with professional codes of conduct.

The operating department practitioner will be qualified to care for patients within three areas of the perioperative environment: anaesthetics, surgical and post-operative phases.

The Diploma (HE) in Operating Department Practice is offered both at Staffordshire University and Keele University, both of which have extensive academic facilities and bases within their NHS partner hospitals. The Universities have close links with several NHS trusts in Shropshire and Staffordshire.

Course content

The aim of the programme is to prepare operating department practitioners who will be enquiring, analytical, independent, critically self-aware, creative in their approach to perioperative practice and able to cope with change.

Students will develop a range of academic skills and refine the ability to apply analytical thinking to each clinical situation, so that on qualification, they will be able to combine competency and critical thinking with caring and an awareness of the uniqueness of each client's individualised needs.

The pre-registration two-year full-time diploma will provide:

- 120 credits at Level I in the first year
- 120 credits at Level II in the second year

Successful completion of 240 credits, achievement of clinical practice outcomes and confirmation of 3,000 hours will lead to eligibility to apply for registration with the Health Professions Council.

Diploma (HE) modules

Students will study a variety of subject areas to include evidence-based practice, professional, legal and ethical studies, biological sciences, health and social well-being and operating department practice.

Clinical practice

Clinical placements will be undertaken in a variety of local Staffordshire and Shropshire NHS trusts. Sixty per cent of course time will be spent focused on clinical practice with opportunities to work alongside qualified operating department practitioners, nurses and members of the healthcare team.

The following partner organisations will be involved in providing student placement experience:

- UHNS NHS Trust
- Mid-Staffordshire General Hospitals NHS Trust
- The Princess Royal Hospital NHS Trust
- The Royal Shrewsbury Hospital NHS Trust
- The Robert Jones and Agnes Hunt Orthopaedic Hospital NHS Trust
- Burton Hospitals NHS Trust
- North Staffordshire Nuffield Hospital

Teaching and assessment

The Diploma (HE) will operate within the Pre-Registration Department of the School of Nursing and Midwifery, Keele University and the Faculty of Health and the Pre-Registration/Undergraduate Modular Framework of Staffordshire University Faculty of Health.

The programme will be delivered over two extended academic years.

The majority of the taught sessions for the Diploma programme will be held at the student's base university at either the School of Nursing and Midwifery based at CEC, UHNS, Newcastle-under-Lyme or at Staffordshire University Faculty of Health University sites.

A variety of teaching, learning and assessment strategies are integrated into the Diploma programmes and will include lectures, seminars, tutorials, problem-solving and group work facilitated by a variety of University lecturers. Clinical specialists and practitioners from local healthcare providers contribute to the delivery of the programmes and where appropriate, members from other disciplines are involved.

The course aims to produce diplomates who develop a professional perspective in relation to self and others, who are effective communicators, able to contribute productively as part of a multi-disciplinary team and who are organisationally aware. To enhance this, where appropriate, the Diploma programme involves shared and inter-professional learning between different health profession pre-registration students.

The Operating Department Practice programme is scheduled to run alongside current pre-registration/undergraduate modules to ensure that where appropriate, shared and inter-professional learning can be facilitated.

Module assessments will be through a variety of integrated essays, examinations, viva voce, seminars and practical assessments. Progression through the course depends on successful completion of assessments for each year of the programme and the achievement of any professional requirements.

Entry requirements

160 UCAS points (which translates for example to 2 'A Levels' both at grade C or 3 'A Levels' at grades D, D and E) and GCSE passes at grade C or above in English, Mathematics and a Science subject.

Access to Higher Education Diploma - 60 Credits: 45 Level 3 and 15 Level 2.

BTEC National Diploma (for example awarded with Merit, Pass, Pass) and GCSE passes at grade C or above in English, Mathematics and a Science subject.

BTEC National Certificate (for example awarded with Merit, Merit) and GCSE passes at grade C or above to include English, Mathematics and a Science subject.

Foundation Year in Health Sciences awarded by Staffordshire University.

Applicants who have a degree or other health-related higher education qualifications.

Evidence of recent study is necessary, i.e. within the last five years.

A range of other qualifications may be accepted. Please discuss this with the Course Applications Administrator. Telephone 01785 353794.

Additional Requirements

A place offered is conditional on the applicant successfully meeting the following additional requirements:

- Successful selection interview
- Meeting all Occupational Health requirements
- Enhanced Criminal Records Bureau (CRB) check (Operating Department Practice application is exempt from the Rehabilitation of Offenders Act)

The University follows the CRB Code of Practice in these issues (see www.crb.gov.uk) and can provide a copy of the Code on request. Please note that having a criminal record is not necessarily a bar to obtaining a place on this programme.

All applications via UCAS www.ucas.com/apply

Operating Department Practice pre-registration

The UCAS form only caters for one nominated referee. It is a requirement for all Operating Department Practice applicants to provide two referees. It is requested that applicants include, at the foot of their supporting evidence, the name, designation and contact address of a second referee (friends, relatives or neighbours cannot be nominated as referees).

Applicants can apply for a non-means tested bursary.

Further information

For more information regarding other pre-registration programmes, please contact:

Customer Services at the School of Nursing and Midwifery
Clinical Education Centre
University Hospital of North Staffordshire
Newcastle Road
Stoke-on-Trent ST4 6QG

T. 01782 679600
F. 01782 679576
E. nursing@keele.ac.uk
W. www.keele.ac.uk/nursingandmidwifery

“Small groups are advantageous; everyone is helpful.

Really enjoyed the course, feel supported both in the University and on clinical placement.”

Students' comments

Points of pride

The Clinical Education Centre is a light and airy, 21st Century building adjacent to modern, local hospitals with a well-resourced health library and dedicated librarians who enable students to make the most of all the library resources.

The Clinical Skills rooms and laboratories enable students to engage in simulated, practical learning to support their practice experiences, which constitute 40% of the programme.

The School has robust pastoral care and student support systems to ensure that students know there is always help available for their personal and professional development.



Pharmacy

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 96

Study abroad: No

UCAS Single Honours programmes

B230 Pharmacy

B231 Pharmacy with Health Foundation

Year. This five-year degree is for students who wish to study Pharmacy but have not studied the science subjects necessary for direct entry onto the MPharm course. See page 269.



The course offers

- Integrated skills development throughout the course
- Opportunities to learn alongside other health professionals
- A problem-based learning approach
- Modern practical laboratories for pharmaceutical science and a custom-built pharmacy practice suite to develop clinical and therapeutic skills
- Interaction with a variety of patients in both the real and virtual worlds

Keele offers established postgraduate courses with an emphasis on medicines management; excellent links with the local health service; dedicated teaching and IT facilities; modern, well-equipped laboratories and analytical facilities; an enthusiastic, multi-disciplinary teaching team; and a stimulating research environment.

In common with all other UK Schools of Pharmacy, Keele requires external accreditation of its course by the General Pharmaceutical Council (GPhC). The MPharm programme at Keele achieved full accreditation in May 2010 with its first cohort graduating in July 2010. We have been granted full accreditation for the maximum possible period, which is five years.

Pharmacists are the experts in drug discovery, development, preparation and usage of medicines. They are both professional scientists and qualified healthcare practitioners. Pharmacists work in hospitals, in the community and in the pharmaceutical industry. They promote the safe and effective use of medicines and ensure quality patient care. Often, pharmacists are the first point of information on medicines for the public and other healthcare professionals, and must be effective communicators.

Pharmacists are educated in diverse areas of science and in the skills required to be effective and professional in their job. The MPharm degree provides the knowledge and skills education essential for future practice and the School of Pharmacy at Keele provides the ideal setting for this. Located within the Faculty of Health, the School complements the existing Schools of Nursing and Midwifery, Medicine and Health and Rehabilitation and students will be taught in a dynamic and flourishing multi-disciplinary, inter-professional environment.

VP/KAVE

For the opportunity to meet one of our virtual patients and to see what our KAVE (Keele Active Virtual Environment) has to offer, please visit our website:

www.keele.ac.uk/pharmacy/vp/

Course content

There is currently full employment in the pharmacy profession, and expanding opportunities in new areas. The Keele MPharm course aims to produce highly skilled healthcare professionals and scientists, well prepared for these new roles. In particular, we will draw on our existing strengths in medicines management, considered by many to be the future of the profession.

The course focuses on the profession and practice of Pharmacy and draws on key aspects of the clinical, physical, life and social sciences, as well as law and ethics. Our aim is to produce the forward-thinking, modern pharmacists of the future. The Keele curriculum is designed such that core aspects of pharmacy practice and the underpinning science are integrated at every level of the course.

The core topics in pharmacy practice include: the roles required of the modern pharmacist; legal, ethical and professional aspects of healthcare; service quality and standards applying to Pharmacy; understanding the signs and symptoms of illness; improving the public's health; medicines management; and advice to other healthcare providers. These topics run through all Levels of the course, from Level I to Level M, developing the professional responsibilities of our future pharmacists year on year. Students are assigned pharmacist mentors who will support their professional development through the course. Students will also maintain a portfolio throughout their studies, providing evidence of progress and commitment to continuing professional development.

The programme provides a truly integrated and fully contextualised MPharm degree. Each year/level of the programme is based on a single 120-credit module that spans both semesters.

In Level I, this comprises three cycles of learning, assessment and reflection. Each cycle comprises seven weeks of teaching followed by one week that is reserved for end-of-cycle examinations, other assessments that cannot fall within the teaching period and a meeting

with a personal tutor who will provide comprehensive and relevant feedback on academic performance and achievement during the cycle. This is a key feature of the programme design: students will be able to use this week to reflect on their own progress using the immediate feedback and to prepare for the next cycle, which will build on and be linked to themes covered already.

The principal aim is to develop knowledge and skills in a wide variety of disciplines by demonstrating the linkages between seemingly dissimilar topics in science and practice that underpin the remainder of the course. Rather than packaging studies into smaller, discrete modules, the Level I programme allows students to see more clearly the linkages between all strands of the programme.

Within the three cycles of learning and assessment, material has been contextualised into three broad themes: those of individual people/patients, of people/patients as members of families and of wider populations. This is strengthened in later cycles by focusing on particular patient groups and on specific diseases that affect these groups. Throughout, the relevance of each group of teaching sessions to the healthcare of the individual, family or population will be highlighted. From the outset, students will be interacting with patients and developing their consulting skills.

Topics covered will include the anatomy and physiology of different patients groups, the underpinning organic and synthetic chemistry necessary for drug design, the development and use of drugs, dispensing and all aspects of communication with patients.

The structure of Level II is very similar to that of Level I with frequent and regular periods of learning, assessment, feedback and reflection. Students will study the more complex aspects of pharmaceutical science, including pharmacology, toxicology, microbiology and pharmaceuticals and formulation. Students will further expand their professional skills through the study of law, ethics and more complex dispensing as the pharmacy practice elements of their learning continue to be developed.

The emphasis in Level III is the further integration of science and practice in the development of skills in patient care, diagnosis and prescribing, the monitoring of disease and appropriate drug interventions. This will encompass relevant aspects of clinical practice, systems pharmacology

and therapeutics, advanced drug delivery systems and clinical governance.

The final year will examine current topics and key developments in professional practice, and the wider role of the pharmacist in patient care will be covered, including prescribing skills, providing currency to the programme and preparing students for employment. A research project will be undertaken over the third and fourth years that may encompass any aspect of the science and practice of Pharmacy.

WelcomeWeb

For a more comprehensive overview of the School of Pharmacy and the MPharm course, please visit our WelcomeWeb at the following web address: www.keele.ac.uk/pharmacy/undergraduate/welcome/

Placement opportunities

The course includes a rich programme of scheduled visits and placements in hospital, community and industrial settings. Students will also participate in running their own health campaign. We provide support for students wishing to arrange extended work placements during vacations to maximise the benefit of this additional learning opportunity. A placement allows students to review the course material in context and develop valuable employability and research skills. Placements will begin during the first semester of teaching and will continue regularly throughout the remainder of the course. The final year will include sessions that prepare students for their pre-registration placement.

Criminal Records Bureau (CRB) Checks

Candidates who are successful in gaining a place on the course will also need to provide a satisfactory enhanced Criminal Records Bureau (CRB) check. In the future this may include satisfying requirements for the Vetting and Barring Scheme (VBS) and Independent Safeguarding Authority (ISA) registration or equivalent. Candidates who have any criminal convictions, cautions, warnings and/or reprimands, however dated they may be, are strongly advised to contact the School of Pharmacy for guidance (01782 734786). All such information will be treated in strictest confidence. Please note, Pharmacy is not subject to the Rehabilitation of Offenders Act 1974 and as such all convictions, cautions, warnings or reprimands must be disclosed.

Pharmacy

The University follows the CRB Code of Practice in these issues (see www.crb.gov.uk) and can provide a copy of the Code on request.

Teaching and assessment

All aspects of the Pharmacy programme are taught in dedicated, well-equipped facilities using a combination of lectures and seminars, tutorials, practical laboratory work, videoed presentations and computer-assisted exercises. In order to reflect the variety of teaching methods used, the class size will vary between a full year group in certain teaching sessions through to half or one-third size groups for practical elements of the course. Smaller groups will also be utilised for workshops and presentations. Problem-based learning will be used progressively to develop understanding and place aspects of the course in context. Essential communication skills will be developed through workshops and presentations and Pharmacy students will be taught in an inter-professional environment, studying alongside medical and nursing students.

The course will be assessed through continuous assessment and examination, with a strong emphasis on skills development and preparation for practice. The elements of continuous assessment may include the submission of laboratory reports or essays, the completion of exercises administered via the virtual learning environment, participation in workshops and giving presentations.

Skills and careers

MPharm graduates need to complete a statutory one-year pre-registration period to qualify to practise. There are many employment opportunities for registered pharmacists. Graduates from this course will have a portfolio of skills that are attractive to potential employers in health authorities, hospitals, community pharmacies and in the pharmaceutical industry. The School of Pharmacy has close links with all these sectors. Throughout the course, students will be able to assess which areas of pharmacy are of most interest to them and practising pharmacists will be available to provide advice.

“The Pharmacy course here is excellent and having very supportive lecturers makes a huge difference to your learning.”

Sairah Syed,
Level III student

Point of pride

The unique teaching and learning methods and integrated course structure adopted in the Keele MPharm programme, and the quality of our graduates and newly registered pharmacists are already having a positive impact on patient care in practice.



Philosophy

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 60/65

Study abroad: Yes

UCAS Single Honours programme

V501 Philosophy

UCAS Dual Honours combinations

NV45 Accounting
TV75 American Studies
FV75 Applied Environmental Science
CV8M Applied Psychology
FV55 Astrophysics
CV75 Biochemistry
FV15 Chemistry
GV45 Computer Science
GV4M Creative Computing
MX5 Criminology
LV15 Economics
VX53 Educational Studies
QV35 English
PV3M Film Studies
NV35 Finance
FV45 Forensic Science
LVR5 Geography
FV65 Geology
VV15 History
VL57 Human Geography
NV65 Human Resource Management
VG55 Information Systems
LVF5 International Relations
MV15 Law
GV15 Mathematics
PV35 Media, Communications and Culture
FVC5 Medicinal Chemistry
WV35 Music Technology
FV85 Physical Geography
FV35 Physics
LV25 Politics
CV85 Psychology
GV75 Smart Systems
V500 **Philosophy (Major).** Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.

V5V0 **Philosophy with Humanities Foundation Year.** This four-year degree course is designed for students who wish to study Philosophy but lack the necessary background qualifications. See page 271.



The course offers

- A specially tailored Dual Honours course, making it the perfect choice for students who want to combine Philosophy with another subject
- A warm, friendly and approachable staff within the multi-disciplinary School of Politics, International Relations and Philosophy
- An innovative and challenging curriculum informed by strong scholarship and cutting edge research
- Transferable skills of analysis and reasoning
- Strong element of specialisation in the third year
- Dynamic teaching methods designed to encourage independent learning and to develop the ability to work in teams
- The opportunity to study abroad in the second year and benefit from another culture and a different educational experience
- Assessment is by a combination of coursework and examination but with some variation to promote choice, with an optional dissertation in the final year

Philosophy questions everything: the nature of time and space, the nature of an object, what it is to be a person, the extent to which human beings can attain knowledge of the world, how language functions, whether our political systems can be justified, what constitutes a good life, what constitutes moral action, whether we can change our personalities at will or whether our lives are mapped out from the moment we are born.

Philosophy aims to develop students' range of analytical and critical abilities. It does this by both considering some of the most fundamental questions and problems of philosophy and by providing the critical tools needed to address them.

Course content

Our programme is designed to build and develop knowledge of Philosophy progressively. The first and second years provide a solid foundation in the key areas and enable students to specialise in their chosen areas in the third year. One of the benefits of being in the School of Politics, International Relations and Philosophy is the range of extra modules in political philosophy also available to Philosophy students.

Year 1

In two compulsory core modules, the nature of philosophical argumentation is introduced and some of the central problems of Philosophy:

- *How To Think (introduction to logic and analysis)*
- *10 Problems of Philosophy (introduction to metaphysics and epistemology)*

Moral and political philosophy can also be studied by choosing our electives:

- *Moral Philosophy (introduction to moral philosophy and philosophy of religion)*
- *Justice, Authority and Power (introduction to political philosophy)*

Year 2

Knowledge already acquired in the first year will be built on. You will be introduced to key thinkers in the history of philosophy in two core modules:

- *Epistemology and Metaphysics I (Descartes, Locke and Berkeley)*
- *Pursuit of the Good (Aristotle and Kant)*

You will also be able to study contemporary debates by choosing from our electives:

- *Philosophy of Mind*
- *Philosophy of Religion*
- *Freedom and Equality*

“Philosophy at Keele is not about simply learning who said what. Instead it invests knowledge of philosophy into its students, so that, as individuals, we can think and reason in all situations, not just the academic. Since entering the graduate market, I have realised this skill is at the top of every employer’s wish list. As a philosophy student at Keele I had excellent resources, a range of interesting and varied courses, beautiful surroundings, but above all, lecturers that loved what they taught. Their enthusiasm for the subject passes to all their students. Fortunately I am one of those students.”

Chris Brand,
BA (Hons) Philosophy and Psychology (2008).

Philosophy

Year 3

You will choose at least two modules from a range of approved Philosophy options.

Third year modules tend to be taught in smaller groups, involve a high level of participation and are designed to prepare you for further studies in the subject. In previous years the options offered have included:

- *Epistemology and Metaphysics II*
- *Philosophy of Art*
- *Existentialism*
- *The Philosophy of Kant*
- *Contemporary Metaphysics*
- *Great Philosophers of the Twentieth Century*
- *Rorty and the Mirror of Nature*
- *Feminist Theory*
- *Toleration*
- *The Individual and the Community*
- *Dissertation (on any approved topic)*

Student life

You will be actively encouraged to discuss philosophical matters outside the class and there are plenty of formal as well as informal opportunities for this. Students are encouraged to attend the Royal Institute of Philosophy Invited Lectures held at Keele, at which leading philosophers from around the country discuss their recent research. You can also participate in Summer Research Seminars, Reading Groups and other events organised by the Philosophy team, such as the Rousseau Annual Lecture and Conference.

Virtually, students can debate philosophical issues on the Philosophy@Keele Weblog. As staff are actively engaged in philosophical research in various areas, the optional modules on offer often reflect these interests, so that students will be offered the opportunity of discussing issues which are the subject of contemporary debate and research.

There is also a thriving Keele Philosophy Society, run by students, which provides the opportunity to discuss key topics in a fun and lively atmosphere.

Students are represented on all the major School committees. Staff take pride in being responsive to student feedback through the school's Staff-Student Liaison Committee, and annual student evaluation of all modules.

Teaching and assessment

Philosophy is a subject in which ideas are tested against each other by argument, and so it can only be effectively studied by students engaging in argument themselves. This is why much of our teaching is seminar-based. The standard format for each module is one lecture and one seminar per week; some options are taught entirely by seminar. The use of the internet, interactive and virtual learning (on the Keele Learning Environment) and use of other ICT are important to the programme, as is the development of written and oral communication skills. Assessment is by a combination of portfolios, essays, presentations and examination.

Skills and careers

The skills acquired by Philosophy students are widely recognised as directly relevant to the needs of today's employers and our students have an excellent careers record of going on to work in a wide variety of occupations. Popular career destinations for Philosophy graduates include law, computing and journalism.

The following are skills that students are likely to develop:

- Strong analytical skills: learning how to spot the arguments people are using and how to evaluate them. Key to this is *Logic and Critical Thinking ('How to Think')*
- Rationality: learning to only hold beliefs that can be justified. Philosophers should not hold on to views dogmatically; they should therefore be able to work in teams
- Comprehension: learning to interpret philosophical texts will make it easier to interpret any other texts, such as legal documents, etc.
- Originality: to do well in philosophy, you have to think for yourself, and this is something employers really value
- Oral communication: Philosophy students will be particularly good at this since Philosophy seminars provide an interactive context in which to bounce ideas off other people

Some more ideas...

Philosophy and English

Philosophy and English interact and complement each other in many ways. Many literary texts, from Thomas More's *Utopia* in the 16th-century, to 20th-century and 21st-century science fiction, raise deep philosophical issues. Both subjects require students to develop an alert awareness of the use of language, and indeed encourage complementary skills and sensitivities in language use and interpretation.

Philosophy and Politics

In the case of Philosophy and Politics, there is considerable conceptual overlap and shared concern in a wide range of contemporary issues, such as environmental matters, genetic engineering and relationships with the Third World. Both disciplines are interested in issues about government, social structures, power, justice and the relationship between the individual and the state. The clarity and precision in analysis provided by training in philosophy complements the wide-ranging scope of political concerns, many of which have profound ethical implications of the kind dealt with in moral philosophy.

Point of pride

Philosophy is part of SPIRE, which is the largest and most unique multi-disciplinary school of its kind in the UK.

“Studying Philosophy at Keele University was one of the most rewarding intellectual experiences of my life. I got to develop the ability to present my opinions in a supportive and intellectually stimulating environment at philosophy tutorials.”

Orkun Özocak,
BSc Philosophy and Psychology (2010) .

“Philosophy isn't just interesting to study, it's addictive. You can't help wanting to know more, even after your degree is over.”

Ken Pepper,
BA (Hons) Philosophy and English (2008).

Physics

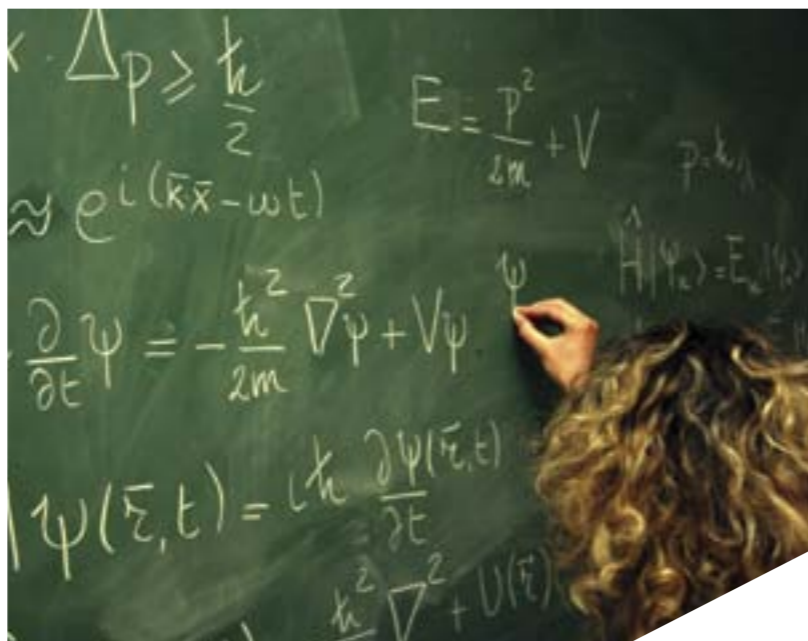
Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 35

Study abroad: Yes

UCAS	Dual Honours combinations
NF43	Accounting
FT37	American Studies
FFX3	Applied Environmental Science
CF73	Biochemistry
CF13	Biology
FN39	Business Management
FF13	Chemistry
FG34	Computer Science
GF43	Creative Computing
FM39	Criminology
FL31	Economics
FX33	Educational Studies
FG33	English
FF36	Geology
FV31	History
CF1H	Human Biology
FN36	Human Resource Management
FG8L	Information Systems
NF13	International Business
FN35	Marketing
FG31	Mathematics
PF33	Media, Communications and Culture
FFC3	Medicinal Chemistry
FW33	Music
FWH3	Music Technology
BF13	Neuroscience
FV35	Philosophy
FL32	Politics
GF73	Smart Systems
FL33	Sociology
F305	Physics (Major). Please indicate your choice of second science subject (chosen from those listed above) in the 'further information' section of your UCAS form.
F303	Physics with Science Foundation Year. This four-year degree course is designed for students who wish to study Physics but lack the necessary background qualifications. See page 273.



The course offers

- Key concepts in classical and modern physics
- Research-orientated options and projects
- Strong tutorial support from academic staff
- Dual strengths in Physics and Astrophysics
- International collaborative research programmes informing our teaching and course design

Physics aims to understand the way our world works, at all levels from the sub-atomic to astronomical scales. To achieve this, physicists use experiments, mathematical models and computer simulation to propose, test, evaluate and develop theories that explain phenomena in the natural world.

More importantly, this depth of understanding allows us to predict behaviour and apply this knowledge to improve the quality of life both for individuals and for society as a whole.

Fundamental Physics is the basis of most developments which characterise life in the 21st century, including mobile phones, MP3 players, developments in medical diagnosis and treatment, wind power and the internet, and it will continue to be so as technology demands a greater depth and breadth of scientific understanding across all forefront developments.

Students may tailor their Dual Honours degree to their career aspirations, as Physics couples well with a range of subjects both from within the sciences – for example, Mathematics, Computer Science, Chemistry – and from the humanities and social sciences – Music, Philosophy or Politics, for example.

Degree routes

BSc Dual Honours Physics

Students can combine Physics with a science or non-science subject in equal weight for three years to achieve a BSc Dual Honours degree (see list).

BSc Physics (Major) (F305)

Including study of a second subject for the first and second years.

Course content

Students pursuing a Dual Honours degree study four modules in the first year, followed by four in each of the second and third years. Those majoring in Physics study four modules in each of the first and second years, and then six modules plus a dissertation and a project in the third year. The modules are taught through lectures, laboratory classes, problem-solving classes and project work.

The first year provides an introduction to mechanics and special relativity, to the laws of electricity and magnetism, to the search for the ultimate structure of matter, and to oscillations and waves.

These themes are developed in the second year, which includes physical and geometrical optics, nuclear and particle physics, quantum mechanics, thermodynamics and statistical mechanics with an introduction to solid state physics. Practical work includes a group project.

The third year contains advanced topics, options (including some topics from Astrophysics) and a project. A major in Physics includes a dissertation as well.

Laboratory and project work

There are laboratory sessions every week in each year. Much of our understanding of Physics comes from observation and measurement, and laboratory work is therefore an essential experience for all physicists. Experiments are designed to investigate unfamiliar phenomena and to acquire specific techniques and skills. Students will learn how to communicate their results and ideas by means of discussions, abstracts and reports or papers.

The second and third years provide increasing scope for creative work in the laboratory through open-ended experiments and, in some cases, project work. Final year students have the opportunity to undertake an extensive project that may be

experimental, theoretical or computational. In all three years, laboratory time provides an opportunity for informal contact and discussion with members of staff.

Year 1

All lecture-based modules are supported by problem-solving classes; mathematical methods and laboratory work are included in these modules. The emphasis is on core physics, mathematics and practical skills.

Core modules

- Mechanics, Gravity and Relativity
- The Nature of Matter
- Oscillations and Waves
- Electricity and Magnetism

Plus modules in your other Principal subject and (where appropriate) modules from the University list of electives.

Year 2

All lecture-based modules are supported by problem-solving classes; mathematical methods, laboratory work and an experimental team project are included in these modules:

- Quantum Mechanics
- Optics and Thermodynamics
- Statistical Physics and Solid State Physics
- Nuclear and Particle Physics

Plus modules in your other Principal subject.

Year 3

You will study advanced physics, undertake a project and choose one or more options from our broad list of topics.

BSc Dual Honours Physics

- Electromagnetism
- Physics Project
- Two options (see below)

Plus modules in your other Principal subject.

Physics (Major)

- Electromagnetism
- Physics Project
- Dissertation and Communication Skills

Plus five options, which may include:

- Cosmology
- Computational Methods in Physics and Astrophysics

- Data Analysis and Model Testing
- Life in the Universe
- Particles, Accelerators, and Reactor Physics
- Physics of Compact Objects
- Physics of Continuous Matter
- Physics of Galaxies
- Physics of the Interstellar Medium
- Polymer Physics
- Quantum Physics of Atoms and Molecules

Teaching and assessment

Teaching is mainly through lectures with weekly problem-solving classes that provide students with an opportunity to practise problem-solving skills in Physics and Mathematics. Relevant mathematical techniques and scientific computing are taught as integral parts of the lecture courses. Coursework includes a series of applied problems that aim to stimulate understanding of the physical concepts arising from the lecture courses, and to enhance skills in quantitative reasoning. Assessment is by a mixture of end-of-module examinations and the coursework completed during the semester; this comprises problem sheets, laboratory and project reports and students' laboratory diary. The assessment balance over the course as a whole is around 60% examination, 40% coursework.

Skills and careers

A degree in Physics will equip graduates with the knowledge and skills to embark on a wide range of careers. Some of our graduates have continued their study of Physics to MSc or PhD level, either at Keele or elsewhere. Many have gone into industry, management, public services including teaching and health, and finance.

It is recognised by employers that the versatility and flexibility of Physics graduates, together with their unique combination of skills, makes them much sought-after employees.

Membership of professional institutions

Our Dual and Physics (Major) courses are accredited by the Institute of Physics. Graduates in Physics who take either Major or Dual Honours are eligible for membership of the Institute of Physics.

Physics

Some more ideas...

Physics and Mathematics

Physics and Mathematics complement one another, in that Mathematics is the language in which physical concepts and principles are written. While the requisite mathematical tools are taught from first principles in the Physics course, the Mathematics course provides a greater depth of understanding from a more abstract, mathematical point of view. On the other hand, the grounding for some of the Applied Mathematics in the Mathematics course is given in the Physics course. Students will need to have successfully studied Mathematics at A2-level for this degree.

Physics and Chemistry

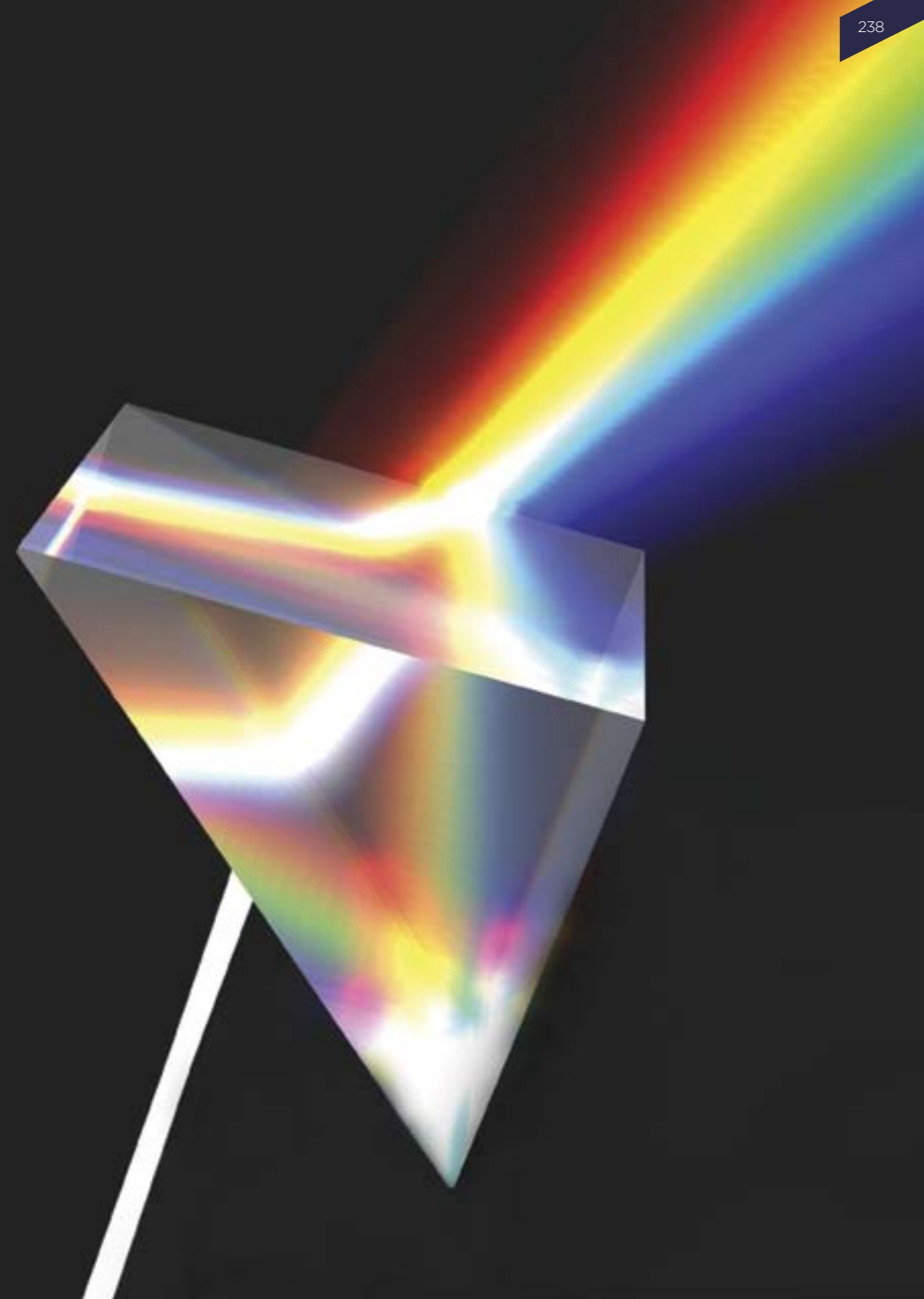
Physics and Chemistry are complementary disciplines. In the Physics course, students cover the principles of atomic structure that underlie the fundamental structure of the periodic table, and the basic quantum physics, thermodynamics and structural concepts that will support studies of spectroscopy and structure in the Chemistry course. Many physical processes, such as X-ray diffraction and electron microscopy, are used to study the structure of materials (such as crystals and polymers) at the atomic level. Students taking this combination of subjects may continue with the Dual Honours course, or opt to specialise in either Physics or Chemistry in their final year.

“A Physics degree from Keele will equip you with the skills to become a respected graduate and the warm, welcoming environment will make you enjoy and prosper in your studies over the three years.”

Stephen Towe,
3rd year student in Physics and Mathematics

Point of pride

Our Dual Honours and Major students have a strong record of success in obtaining both graduate-level employment and places on postgraduate courses (research PhD and taught MSc) after achieving their BScs with us. We believe that this success reflects both the benefits of Dual Honours and the rigour of our IOP-accredited Physics programme. Recent graduates have used their Keele degrees to start careers in physics-related industry and education and in diverse other fields, such as IT and computer systems, health, actuarial science, management consulting and patent law, with employers including BAE, the NHS, Swiss Re, Dehns and other firms around the UK and Europe.



Physiotherapy

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 61

Study abroad: No

UCAS **Single Honours programmes**

B160 Physiotherapy

B1B9 **Physiotherapy with Health Foundation Year.** This four-year degree is for students who wish to study Physiotherapy but lack the necessary background qualifications. See page 269.



The course offers

- **Integrated strands which are underpinned by the latest research findings**
- **Five core strands focus on Professional Practice, Health and Well-being, Therapies, Evidence-based Health and Rehabilitation and Clinical Practice in a variety of clinical settings**
- **Staff within the School include lecturers, clinical and research staff and we pride ourselves on our excellent staff–student relationships**

Details of selection criteria are available on Open/Visit Days and from Undergraduate Admissions, MacKay Building, School of Health and Rehabilitation.

NHS-funded places are available for UK/EU citizens. Additional places are available for international students.

Entry requirements

A wide range of qualifications are considered – see the School website for details A-level candidates require grades ABB, to include Biology, Human Biology or PE.

The programme offers

The BSc (Hons) in Physiotherapy is a three-year Single Honours programme offered by the School of Health and Rehabilitation. The programme actively promotes integration of the science of Physiotherapy with practical learning in a clinical setting within the NHS (community and acute hospital settings) and other sectors. The programme aims to develop excellent levels of academic and professional competence. It encourages students to develop current, adaptable and transferable skills that enable them to be proactive in an evolving healthcare environment.

Consequently, students are able to be responsive and innovative and take responsibility for their own learning during their three years at Keele University.

There is a strong School commitment to providing opportunities for applicants with varying educational and employment backgrounds. International candidates are also welcomed.

All offers are provisional and subject to interview and a satisfactory health screening, Criminal Records Bureau (CRB) check and student membership of the Chartered Society of Physiotherapy.

Programme content

Throughout the three-year programme, five themed strands are developed: Clinical Placements, Evidence-based Health and Rehabilitation, Health and Well-being, Professional Practice and Therapies.

Year 1

Clinical placements: during the first year there are three clinical placements. You will undertake appropriate preparation prior to the placements including CPR, manual handling and infection control. Initially, the emphasis is on acquiring basic handling and communication skills. In addition, you will develop professional behaviours and gain experience of working in a multidisciplinary healthcare environment.

Evidence-based Health and Rehabilitation: you will be introduced to measurement

processes, validity, reliability and descriptive statistics with a view to being able to develop a basic level of critical discussion around clinical measurement.

Health and Well-being: you will develop skills to positively influence people in order to bring about long-term change in behaviours that will ultimately lead to maintaining and/or improved health and well-being throughout the life course.

Professional Practice: the principles of reflective practice and the relevance of professional accountability and responsibility will be introduced along with topics relating to leadership and service improvement. In addition, you will consider legislation, protocols and guidelines relating to record keeping and the role of governance.

Therapies: you will cover the anatomy and physiology of key body systems relevant to physiotherapy and their possible dysfunction. You will develop generic and physiotherapy specific examination and treatment skills.

Year 2

Clinical placements: there are two placements during the second year that are undertaken in the clinical setting. This promotes consolidation of the knowledge, skills, attitudes and behaviours developed so far. You will gain experience in patient management with emphasis on the effective implementation and analysis of therapeutic intervention. You will also be encouraged to reflect on your personal and professional development.

Evidence-based Health and Rehabilitation: you will develop an understanding of ethical consideration related to research. You will consider cause and effect relationships, design simple studies and develop basic audit skills and be able to use basic inferential statistics.

Health and Well-being: you will focus on the rehabilitation of individuals whose health and well-being has been compromised by a range of factors.

Professional Practice: you will continue to develop your skills of reflective practice and will begin to analyse the changing and diverse context of health and social care.

Therapies: you will develop a more in-depth knowledge of anatomy, physiology and begin to consider tissue biomechanics and common pathologies. In addition, you will continue to develop examination and treatment skills as well as analyse and interpret intervention outcomes.

Year 3

Clinical placements: there are three further clinical placements during the final year. There is potential for the last of these to be an elective placement. The emphasis is on developing higher-level clinical reasoning skills in order to become an autonomous practitioner.

Evidence-based Health and Rehabilitation: you will acquire skills in searching, selecting and critically appraising appropriate literature. You will develop a research question in order to carry out a research project. This culminates in a final project report.

Health and Well-being: you will consider the impact of long-term conditions on both the individual and society. You will consider the impact of the ageing process on health and well-being through the life course.

Professional Practice: you will further develop professional behaviour in relation to lifelong learning, communication and leadership and service improvement and development.

Therapies: you will develop clinical reasoning skills in order to address the needs of more complex presentations. The emphasis will be on the ability to justify, modify and prioritise physiotherapeutic management within the context of current research.

Criminal Records Bureau (CRB) checks

Applicants offered a place on this degree programme will also be required to apply, through the University, for an Enhanced Disclosure from the Criminal Records Bureau (CRB) (see page 284). The School of Health and Rehabilitation will meet the costs of this. The University follows the CRB Code of Practice in these issues (see www.crb.gov.uk) and can provide a copy of this Code on request. The University also has a policy on the recruitment of ex-offenders. It should be noted that having a criminal record is not necessarily a bar to obtaining a place on this programme. Applicants from outside of the UK will be instructed on how to acquire the equivalent documentation from their own authorities.

Physiotherapy



Occupational Health

To be admitted to the Physiotherapy programme, the School requires all students holding a firm offer to be assessed by the Occupational Health Department at Keele University by means of a questionnaire. Applicants who have accepted an offer from Keele will be required to complete a pre-acceptance health questionnaire.

This questionnaire is sent to applicants directly from the academic registry at Keele. Follow-up appointments with the Occupational Health Department at Keele will usually take place after enrolment.

Inter-professional Learning

The Faculty of Health at Keele University is committed to the development and provision of high-quality multi and inter-professional learning, in line with the inter-professional education strategy, please see www.keele.ac.uk/health/interprofessionaleducation/

Pre-registration students from all health and social care disciplines will work together to develop their collaborative skills, an understanding of the roles of future colleagues and a broader perspective of the patient experience in order to support inter-professional patient care. Health and social care disciplines involved include: Biomedical Sciences, Clinical Psychology, Medicine, Midwifery, Nursing, Operating Department Practice, Pharmacy, Physiotherapy and Social Work. Inter-professional learning and teaching activities, in large and small groups, will form a cohesive strand across the years of study for these student groups.

Teaching and Assessment

A variety of teaching, learning and assessment strategies are integrated into the programme. Students will be expected to take responsibility for their own learning throughout the course and the volume of independent work increases over the three

years. The theoretical components of the programme are taught using a variety of strategies including lectures, tutorials, seminars, problem-solving, small group work and independent study. The practical elements are taught mainly by lecture/demonstration followed by practice in university and clinical settings. Students will also have access to anatomy suite facilities in the School of Medicine. IT is integral to the teaching and learning strategies and includes discussion boards for many strands and the use of interactive software during lecture presentation.

The assessment system is intended to challenge and stimulate students and to achieve the learning outcomes of the course. In addition, it is designed to reflect the increasing level of complexity as the programme progresses. Self-assessment through online quizzes via the Keele virtual learning environment is encouraged.

Various methods of assessment assist learning and enable students to identify their strengths and areas for improvement. The assessment system is one that combines coursework, assignments, seminar presentations, written and practical examinations and clinical assessments. These elements enable students to demonstrate academic attainment, research awareness and clinical expertise.

Successful completion of each year will enable students to progress through the programme where the assessment procedures will provide evidence for attainment for the award of BSc (Hons) Physiotherapy.

Skills and Careers

New graduates often choose to start their professional career within the NHS, where a wide range of experience can be gained, many physiotherapists choose to specialise in one of the various areas comprising Physiotherapy practice. Other options include general practice, private practice, sports clinics and clubs, fitness clubs, within the armed forces and working abroad. Alternatively, others may choose to embark on postgraduate study or to work in teaching, research or management. In the past, a high percentage of students graduating in Physiotherapy from Keele have been successful in gaining a physiotherapy position. The three-year Physiotherapy degree enables the development of many transferable skills that can be used in a variety of career settings or as an entrance to postgraduate study.

Membership of Professional Institutions

Applicants offered a place on the undergraduate programme will be expected to become student members of the Chartered Society of Physiotherapy. This is to ensure professional liability cover and to access the wide variety of resources that enable further student development. Graduates in Physiotherapy are eligible to apply for registration with the Health Professions Council that is a prerequisite for practice in the UK. They are also eligible to apply for full membership of the Chartered Society of Physiotherapy.

Contact details

For further details, please contact:

Claire Evans
T. 01782 734156
E. c.e.evans@acad.keele.ac.uk

SHAR Administrative Office
T. 01782 734191
E. physiotherapyadmissions@shar.keele.ac.uk
W. www.keele.ac.uk/healthandrehabilitation

Point of pride

The excellent and supportive nature of staff/student relationships within the School are consistently commended in reviews of programme quality.

“I am enjoying every part of my time at Keele from social to study, as everyone supports and encourages each other to perform and excel.”

Sarah,
Physiotherapy, 2010

“I am having a really positive experience studying Physiotherapy and I know that Keele was the right decision for me.”

Siobhan,
Physiotherapy, 2011

“I think Keele is a great University and the course is absolutely amazing.”

James,
Physiotherapy, 2010

Politics

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 90/100

Study abroad: Yes

UCAS	Single Honours programme
L200	Politics
UCAS	Dual Honours combinations
NL4F	Accounting
LT27	American Studies
FL72	Applied Environmental Science
CL8F	Applied Psychology
FL52	Astrophysics
CL12	Biology
LN29	Business Management
FL12	Chemistry
GL42	Computer Science
GL4G	Creative Computing
LL12	Economics
LX23	Educational Studies
QL32	English
PL3F	Film Studies
LN23	Finance
FL42	Forensic Science
LL72	Geography
LV21	History
CL1G	Human Biology
LL27	Human Geography
LG2K	Information Systems
NL1F	International Business
L251	International Relations
LM21	Law
LN25	Marketing
PL32	Media, Communications and Culture
FLC2	Medicinal Chemistry
LW23	Music
BL12	Neuroscience
LV25	Philosophy
FL82	Physical Geography
FL32	Physics
CL82	Psychology
GL7F	Smart Systems
LL32	Sociology
L201	Politics (Major). Please indicate your choice of second subject (chosen from those listed here) in the 'further information' section of your UCAS form.
L2LH	Politics with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Politics but lack the necessary background qualifications. See page 275.



Politics is studied either as a Single Honours course, or as part of a Dual Honours degree in combination with a wide range of subjects such as International Relations, History, Law or Economics. Under the Dual Honours system, you may choose to concentrate more on one subject (as a major) than another (as a minor).

The course offers

- A flexible and dynamic curriculum designed to engage students with the study of Politics
- A warm, friendly and approachable staff within the multidisciplinary School of Politics, International Relations and Philosophy
- An innovative and challenging curriculum informed by strong scholarship and cutting-edge research
- A wide range of options in the second and third year (including modules from International Relations)
- One-to-one supervision of independent research towards a final year dissertation on a topic of your choice
- Opportunity to study abroad in the second year and benefit from another culture and a different educational experience
- Exciting range of co-curricular pursuits, including the Keele Politics Society

Our courses provide a challenging treatment of the ways in which the study of Politics has dealt with a range of contemporary political issues and debates. We take a global approach to Politics and give students the opportunity to analyse the complex events and forces that shape the world in which we live. One crucial feature of that world is its interconnectedness – geographical, social, economic, intellectual – and this cannot be understood without understanding the role of politics.

Our Politics courses have four main objectives:

- to acquaint students with the major approaches to studying Politics
- to encourage students to think critically and creatively about Politics
- to enable students to make informed assessments about local and national politics through comparison with equivalent processes in other countries
- to equip students with a range of transferable skills that enable them to succeed in the workforce and be an informed participant in civic life

We have teaching and research expertise in Environmental Politics, Social Movements and Elections, European Politics, US Politics, modern political ideas and political parties. Politics students will study individual countries in depth, engage in philosophical arguments about freedom and equality and explore sociological issues about why people engage in or avoid politics. Over the three years, you will have the opportunity to explore in depth the questions that interest you most.

Course content

Our courses are designed to build and develop knowledge of Politics progressively. The first year provides a foundation for more flexible choices in the second year and considerable specialisation in the third year. One of the benefits of being in the School is the range of modules from International Relations also available to Dual Honours Politics students in the third year (see page 171).

The courses assume no prior knowledge of Politics, but the content is more comparative and global than A-level Politics and so is also fresh and challenging to those who have previously studied the subject.

Year 1

Many students have not studied Politics before, and even those who have will not have covered it with the same breadth. In the first year of Politics you are introduced to the basic concepts through two core modules:

- *Why Politics Matters*
- *Modern Democracies*

Single Honours Politics students also take (and Dual Honours students can choose as electives):

- *British Politics Since 1945*
- *Justice, Authority and Power*

Elective modules

Politics students have the choice of a wide range of elective modules. SPIRE offers a number of electives, including:

- *Making and Shaping Foreign Policy*
- *The Changing World: A History of International Relations since 1945*
- *Debates in American Politics*
- *The Politics of Sustainability*
- *Mass Media in America*
- *Introduction to Global Politics*

Year 2

Build on your first year work by deepening your knowledge about particular countries, regions and theories. Dual and Single Honours students take a core module, *Approaches to Political Analysis* and then choose from further core offerings:

- *Comparative Political Analysis* or
- *Why Policy Changes* or
- *Freedom and Equality*

Again, we offer a wide choice of elective modules in Politics, including:

- *British Government and Politics*
- *US Government and Politics*
- *German Government and Politics*
- *Balkan Politics and Society*
- *Environmental Politics and Policy*
- *The Practice of Politics*

It is also possible to choose from modules run by our International Relations programme, such as Peace, Conflict and Security and The European Union.

Year 3

Special subjects are taught exclusively through seminars, and, because they relate to staff research interests, they provide a chance to engage with the cutting-edge of political research. Dual Honours take at least two and Single Honours take at least four approved electives in Politics. The range of special subjects available varies from year to year, but the following is an indicative list:

- *The Extreme Right in Western Europe*
- *The Politics of Radical Protest*
- *The Individual and the Community*
- *Citizenship and the Environment*
- *Political Parties*
- *The US Presidency*
- *The EU and Eastern Europe*
- *Political Economy of Sustainable Development*
- *European Social Democracy*
- *Environmental Politics in the USA*
- *The Politics and International Relations of the Middle East*

“The breadth and depth of its modules is not all that SPIRE has to offer. In SPIRE you are not just a number. You are a person and the staff get to know you and treat you as such. You will be hard pressed to find lecturers who care as much about their subjects or who inspire students to share their interest in those subjects as you find in SPIRE.”

Carrie Martin,
BA (Hons) Politics and International Relations (2010)

Politics

Student life

The School is committed to building a diverse and dynamic community to ensure that students explore their interests, learn from each others' experiences, and participate in academic and co-curricular activities outside the classroom. We pride ourselves on our friendly and informal approach. There are many co-curricular activities at Keele that offer opportunities to enrich your understanding of Politics, such as the Students' Union, political party organisations, the Keele Politics Society, Keele Environment Group and the Keele Model United Nations Society.

Students are represented on all the major SPIRE academic committees. Staff take pride in being responsive to student feedback through our Staff-Student Liaison Committee and annual student evaluation of all modules.

Teaching and assessment

First year modules are taught through a combination of large group lectures and much smaller seminars. Lectures are designed to move beyond the basic texts and to encourage critical assessment of

conflicting theories. In seminars, small groups of students take part in discussion and debates facilitated by lecturers and professors. The School guarantees all first year students an hour per week of small group teaching on each module.

Our teaching focuses on developing students' potential for independent thought and intellectual creativity. The use of a range of information and communication technologies is integrated into modules, as is the development of written and oral communication skills. Some modules are assessed through a combination of coursework and examination, some are assessed only on written coursework, while in other modules oral presentations and other types of seminar contributions are formally assessed. Our staff have wide-ranging and cutting-edge research interests, which means that academic research informs and ignites our teaching.

Students are encouraged to play an active role in the learning process, developing their own interests and ideas. We encourage you to acquire skills that are transferable to a wide range of professions.

Skills and careers

A degree in Politics is a gateway to a wide variety of future careers. Employers regard a Politics degree as evidence of an ability to think critically and to work independently, to make reasoned arguments, to collaborate with colleagues, to meet deadlines and to present information effectively. The Politics courses allow students to develop these skills by encouraging debate in the classroom, the development of effective communication skills, independent study and involvement in co-curricular activities.

The careers record of SPIRE Politics graduates is excellent and some of our graduates are featured on our website. Some of the most common destinations of past graduates include political researchers for MPs and think-tanks, journalism, education, management, the civil service, local government and the voluntary sector. Around a quarter of our graduates go on to take higher degrees in Politics and other subjects. SPIRE offers Master's courses in Parties and Elections, Environmental Politics, European Politics and Culture, Diplomatic Studies and Human Rights, Globalisation and Justice, among others.

Some more ideas...

Politics and History

History is one of the most popular subjects for combining with Politics in a Dual Honours degree. There are many attractions to this mix. While being two quite distinct disciplines (History as a branch of the humanities, Politics as a social science), their subject matters naturally overlap. Historical background can, of course, offer valuable insight into modern political structures and processes, and this is especially the case at Keele in the area of Europe, in which both Politics and History have particular strengths.

Politics and Philosophy or International Relations

In the case of Philosophy and Politics, there is considerable conceptual overlap, and shared concern on a wide range of contemporary issues, such as climate change, genetic engineering and global inequality. Both disciplines are interested in issues about government,

social structures, power, justice and the relationship between the individual and the state. The clarity and precision in analysis provided by training in Philosophy complements the wide-ranging scope of political concerns, many of which have profound ethical implications of the kind dealt with in moral philosophy. Within the School of Politics, International Relations and Philosophy, International Relations (Dual Honours) is also a programme favoured by Politics students as the subjects are closely related.

Politics and Law

Law with Politics is a distinctive qualifying Law degree pathway. It builds on the close links between the two disciplines to enable students wishing to enter the legal profession to acquire an interdisciplinary education by studying one Politics module in every semester of every year of their time at Keele. Students will develop their legal skills and knowledge through an in-depth examination of the law in its social, political and economic context

while working with leading internationally recognised academics from both Law and Politics. This degree will appeal to those wishing to pursue a range of possible careers, including working as qualified lawyers in different levels of government, working in non-governmental organisations, think-tanks and lobbying organisations, policy analysis or even teaching politics and citizenship. The key research, communication and analytical skills that students will develop will equip them to work in a broad range of sectors, and we have seen our graduates achieve successes in the legal professions and many other careers, including the police, teaching and film production. Keele alumni include several former presidents of the Students' Union, partners of leading national law firms, QCs, a recent president of the Law Society and a High Court judge.

See also: [International Relations page 171](#).

“SPIRE staff are highly dedicated to the learning and teaching of their students. The passion that academics within the School hold for their subject matter exudes in their teaching and in their engagement with students. You will hear this many times about every academic department in the country, but SPIRE truly has given me the confidence to become involved positively in projects and organisations outside of my academic studies through its distinctive, rigorous, but nonetheless thoroughly enjoyable, academic programme. One of the strongest aspects of the School is its communitarian ethic: in SPIRE you are an included part of an enthusiastic academic team and you will leave better for the experience.”

Andy Irwin,
BA (Hons) Politics and English (2010)

Point of pride

Politics is part of SPIRE, which is the largest and most unique multidisciplinary school of its kind in the UK.

Psychology: Applied Psychology

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 15

Study abroad: Yes

UCAS	Dual Honours combinations
NC48	Accounting
CT8R	American Studies
CF87	Applied Environmental Science
CC8R	Biochemistry*
CC8C	Biology
CN8F	Business Management
CF8C	Chemistry
CG8K	Computer Science
GCV4	Creative Computing
CM8Y	Criminology*
CL8C	Economics
CX8H	Educational Studies
CQ8H	English*
CF84	Forensic Science*
CF8P	Geology
CV8C	History*
CC8D	Human Biology*
CN8P	Human Resource Management
CG85	Information Systems
CN81	International Business
CN8M	Marketing
CG8C	Mathematics
CP83	Media, Communications and Culture
CF8D	Medicinal Chemistry
CW8H	Music*
CJ89	Music Technology
BC81	Neuroscience*
CV8M	Philosophy*
CL8F	Politics*
CG87	Smart Systems
CL8H	Sociology*
C811	Applied Psychology (Major). Please indicate your choice of second subject (chosen from those listed here) in the 'further information' section of your UCAS form.
C810	Applied Psychology with Social Sciences Foundation Year. See page 275. This is a five-year degree course designed for students who wish to study Applied Psychology but lack the necessary background qualifications.

For students who decide to Major in Applied Psychology and Minor in their other subject: Year 3 elective modules can be chosen from the subjects marked*.



The course offers

- A year working in an applied psychology organisation
- Invaluable practical experience of working within an applied psychology setting
- The opportunity to apply psychological knowledge in a practical context
- An opportunity to work within a multidisciplinary team
- The possibility of carrying out the final year dissertation in the placement organisation during the final year
- Individual supervision by a member of academic staff and a member of the placement organisation (ideally a professional psychologist)
- Teaching by research-active subject specialists
- Combination with a range of science and non-science subjects
- Opportunity to develop generic employability skills such as CV preparation and interview skills
- Relevance to a wide range of career paths both within and outside psychology
- Individually supervised final year projects
- Integrated small group seminars that encourage student participation
- A supportive system of pastoral care
- A range of different assessment procedures used

The new four-year Dual Honours Applied Psychology programme is an extension of our successful Dual Honours Psychology degree differing only in terms of a placement year sandwiched between the second and final year. Students taking the Applied Psychology programme will spend their third year on a 30-week (minimum) placement, gaining practical experience and developing important employability skills in one of the many areas in which psychologists work.

Applied Psychology is a large and varied discipline concerned with the systematic study of mind and behaviour. The basic premise of Applied Psychology is the use of psychological principles to address problems in a variety of different settings such as mental health, health and education. By its very nature, the Applied Psychology programme is multidisciplinary oriented which is attractive to employers in both psychology and non-psychology careers.

Our students come to the course with both arts and science A-levels, ACCESS, International Baccalaureate and vocational entry qualifications. The School is lively and expansionist, with academic staff providing teaching and research expertise across a range of specialised topics.

The research activity of the School is currently focused on three main areas:

- Social and developmental psychology
- Cognition and neuropsychology
- Applied psychology

Outcomes

On completing the undergraduate degree course in Applied Psychology, graduates will have:

- Demonstrated an advanced understanding of the issues involved in the application of psychological knowledge and skills in a placement agency
- Demonstrated awareness of and ability to use and evaluate psychological literature relevant to the placement agency
- Further developed employability skills such as written and oral presentation, observation, data collection, time management and personal organisation by their application in an applied psychology environment
- Developed initiative, independence, ability to take personal responsibility and to make decisions in complex and unpredictable circumstances
- Demonstrated an ability to critically reflect on the placement experience and consider the strengths and weaknesses of applying a psychological perspective in the placement agency
- Demonstrated enhanced employability skills through the placement and application process (which includes CV preparation and interviews)
- Developed a psychological perspective, or way of thinking, which can be used when confronted with or when analysing social and personal issues. This perspective might be characterised by the adoption of an open-minded but critically evaluative consideration of the nature of the problem or issue; an emphasis on the importance of scientific and systematic methods of data collection and concept development; and a recognition of the importance of evidence-based argument
- Developed an appreciation of a psychological perspective on the human condition
- Developed a critical understanding of the major ideas, concepts, and findings theories of psychology
- Developed knowledge and skills in the use of the major methodologies used in psychology, including qualitative methodologies

- Planned, executed and reported an independent piece of research
- Developed the ability to interpret critically empirical research studies

Course Content

Year 1

Four core modules are taken:

Individuals in Society introduces psychological procedures and methods of enquiry and illustrates them in three different areas: child development, social psychology and the study of individual differences.

Research Methods 1 introduces the range of research methods used in psychology, and focuses on developing an introductory understanding of data collection and analysis.

Biological and Cognitive Psychology introduces fundamental mechanisms and ideas in psychology by looking at perception, memory, learning and the biological basis of human behaviour.

Research Methods 2 extends the work done in the first module on research perspectives and develops understanding of more advanced techniques of data analysis.

Year 2

Four modules are taken:

Developmental and Social Psychology extends and builds on the material taught in the first year. You will study more detailed and specific accounts of research and theories in developmental and social psychology.

Survey and Qualitative Research Methods extends and builds on the material taught in the first year, particularly in relation to the design and analysis of questionnaires, observational methods and qualitative research methods. Data from interviews, observations and conversations lend themselves to qualitative analysis.

Biological Psychology, Perception and Cognition extends and builds on the material taught in the first year. You will gain more detailed knowledge of recent and current issues in the biological basis of behaviour, perception and low-level cognitive processes.

Cognitive and Biological Research Methods further extends and builds on the material taught in the first-year modules on research perspectives and quantitative methods. Topics studied include: factorial experimental designs, analysis of variance, the analysis of interactions and an introduction to

research methods in neuropsychology and psychobiology.

Year 3

You will undertake a single placement module (minimum 30 weeks) within an agency which will provide an opportunity to apply psychological knowledge in a practical context, to work within a multidisciplinary team, gain invaluable practical experience in an area of professional psychology and develop a range of employability skills which will be relevant to psychology and non-psychology paths.

Year 4

Three modules will be taken:

Special Option: you will choose one module to study in-depth (from an array of about 12 choices). While the choices vary from year to year, recent examples include:

- *Social Development in Children*
- *Thinking about Knowledge and the Mind*
- *Cognitive Neuropsychology*
- *Disclosure Processes in Children and Adolescents*
- *Research in Music Psychology*
- *Peer Relationships in Childhood and Adolescence*
- *Influences on Human Cognitive Performance*
- *Psychology, Health and Social Action*
- *Health Psychology*
- *Behaviour Analysis in Clinical Psychology*
- *Psychology of Time*
- *Human Memory*
- *Recognising and Remembering Words*

Individual Differences and Conceptual Issues extends and builds on the material taught in the first year. You will develop an evaluative understanding of theories and research relating to individual differences, conceptual and historical issues in psychology.

Individual Research Dissertation involves independent study, supervised by a member of the teaching staff. You will research an area of interest to you, plan and carry out an investigation, and write it up as a research report, utilising the methods and procedures taught in the earlier research methods modules. This is a 'double' module that runs over both semesters of the final year.

Psychology: Applied Psychology

Summary of BSc Applied Psychology Dual Honours and Major routes

	BSc Dual Honours	BSc Major
First Year	<ul style="list-style-type: none"> – Individuals in Society – Research Methods 1 – Biological and Cognitive Psychology – Research Methods 2 	<ul style="list-style-type: none"> – Individuals in Society – Research Methods 1 – Biological and Cognitive Psychology – Research Methods 2
Second Year	<ul style="list-style-type: none"> – Developmental and Social Psychology – Survey and Qualitative Research Methods – Biological Psychology, Perception and Cognition – Cognitive and Biological Research Methods 	<ul style="list-style-type: none"> – Developmental and Social Psychology – Survey and Qualitative Research Methods – Biological Psychology, Perception and Cognition – Cognitive and Biological Research Methods
Third Year	– Placement Year	– Placement Year
Fourth Year	<ul style="list-style-type: none"> – Special Option – Individual Differences and Conceptual Issues – Individual Research Dissertation 	<ul style="list-style-type: none"> – Special Option – Individual Differences and Conceptual Issues – Individual Research Dissertation <p>PLUS four modules chosen from:</p> <ul style="list-style-type: none"> – Special Topics in Psychology – Research Apprenticeship (Max. 2) – Approved elective from Psychology or 'approved' subjects. <p>See list on page 247.</p>

Year 4 (Major route only)

In addition, in their fourth year students majoring in applied psychology will take four additional psychology-related modules. Three psychology modules offer one-to-one supervision by a research-active member of psychology staff. These modules will provide students with the opportunity to further specialise in areas of psychology, develop research methods expertise and develop new skills in writing (for publication) and presentation (conference style). Students will also take an elective module selected from psychology or approved subjects. See list on page 247.

Teaching and assessment

In the first and second years, modules are usually taught through a combination of three weekly lectures, a practical class and seminars. The practical classes involve developing skills in the use of experimental methods, survey work and qualitative analysis. Some of these practical classes are written up in the form of individual or group reports.

First and second year modules are generally assessed by a combination of coursework and examination. First year students also engage in research participation time during which they develop their appreciation of psychological research and learn about the research conducted within the School.

During the third year, you will keep a reflective diary chronicling your placement experiences. You will also do a presentation on your return in the fourth year and your placement supervisor will write a report.

In the fourth year, there are no practical classes but students will draw on their knowledge of methodology by completing a research dissertation that runs across both semesters. The other third year modules are assessed by a combination of examinations and coursework, or by examination only.

Skills and careers

The unique combination of skills that characterise the Dual Honours Applied Psychology programme are transferable across disciplines and into the world of work. The placement experience will

improve students' employability skills such as time management, personal organisation, initiative, independence and ability to take responsibility. Students will also gain first-hand experience of applying psychological knowledge within an applied setting as well as having the opportunity of developing other generic skills in oral and written communication, the use of IT, numeracy and data analysis, team working, problem-solving and skills in research methodology. We also intend that our programme will prepare our graduates for, and stimulate their enthusiasm about pursuing continuing educational opportunities following graduation and indeed the course prepares our students to study Applied Psychology at postgraduate level and to pursue professional training courses in an applied setting.

Membership of professional institutions

This programme is accredited as conferring eligibility for the Graduate Basis for Chartered Membership (GBC) by the British Psychological Society, which is the first step towards becoming a chartered psychologist. Students should note that to be awarded GBC by the British Psychological Society, they must pass their empirical dissertation and overall achieve a minimum standard of qualification of second class Honours.

Keele students who elect to take part in the Study Abroad programme take an extra module in their final year to ensure their eligibility for GBC.

Some more ideas...

Applied Psychology and Biology, page 71; Applied Psychology and Human Biology, page 75; Applied Psychology and Criminology, page 111; Applied Psychology and Human Resource Management, page 163; Applied Psychology and Neuroscience, page 211; Applied Psychology and Sociology, page 259.

Point of pride

All students on the Applied Psychology course get to spend a year out working in the community on a psychology placement such as working in a prison or with a local mental health team.



Psychology

Course: Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 200

Study abroad: Yes

UCAS	Dual Honours combinations
NC4V	Accounting
CTW7	American Studies
FC98	Applied Environmental Science
CC87	Biochemistry*
CC81	Biology
CN89	Business Management
CF81	Chemistry
CG84	Computer Science
GC4V	Creative Computing
CM81	Criminology*
CL81	Economics
CX83	Educational Studies
CQ83	English*
FC48	Forensic Science*
CF86	Geology
CV81	History*
CC1V	Human Biology*
CN86	Human Resource Management
CG8L	Information Systems
NC18	International Business
CN85	Marketing
CG81	Mathematics
PC38	Media, Communications and Culture
CFV1	Medicinal Chemistry
CW83	Music*
CWV3	Music Technology
BC18	Neuroscience*
CV85	Philosophy*
CL82	Politics*
GC78	Smart Systems
CL83	Sociology*
C801	Psychology (Major). Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
C802	Psychology with Social Sciences Foundation Year. This is a four-year degree course designed for students who wish to study Psychology but lack the necessary background qualifications. See page 275.

For students who decide to Major in Psychology and Minor in their other subject: Year 3 elective modules can be chosen from the subjects marked.*



The course offers

- Teaching by research-active subject specialists
- Accreditation by the British Psychological Society
- Combination with a range of science and non-science subjects
- Relevance to a wide range of different career paths
- Individually supervised final year projects
- The possibility of taking part in exchange programmes in the US, Europe and Canada in the Study Abroad programme
- Integrated small group seminars that encourage student participation
- A supportive system of pastoral care
- A range of different assessment procedures used

Psychology is a large and varied discipline concerned with the systematic study of mind and behaviour. The subject is an exciting one to study and provides a useful background for many different types of career. Our students come to the course with both arts and science A-levels, Access, International Baccalaureate and vocational entry qualifications. The School is lively and expansionist, with academic staff providing teaching and research expertise across a range of specialised topics.

The research activity of the School is currently focused on three main areas:

- Social and developmental psychology
- Cognition and neuropsychology
- Applied psychology

Anyone who is interested in understanding more about human behaviour and in acquiring the skills of scientific research can profitably read Psychology at Keele. The course teaches a range of psychological skills that are transferable to other areas of study and to the world of employment.

Degree routes

Psychology may be studied for the following modular degrees over three years:

- **BSc Dual Honours:** with a second subject studied for three years
- **BSc Psychology (Major):** students will be required to read a second subject for the first two years and take Psychology 'approved' modules only in Year 3

A four-year Applied Psychology route is also available, which includes a psychology placement between years 2 and 3. See Page 247.

Outcomes

On completing the undergraduate degree course in Psychology, graduates will have:

- Developed a psychological perspective, or way of thinking, which can be used when confronted with or when analysing social and personal issues. This perspective might be characterised by the adoption of an open-minded but critically evaluative consideration of the nature of the problem or issue; an emphasis on the importance of scientific and systematic methods of data collection and concept development; and a recognition of the importance of evidence-based argument
- Developed an appreciation of a psychological perspective on the human condition
- Developed a critical understanding of the major ideas, concepts, findings and theories of psychology
- Developed knowledge and skills in the use of the major methodologies used in psychology, including qualitative methodologies
- Planned, executed and reported an independent piece of research
- Developed the ability to interpret critically empirical research studies

Course Content

Year 1

Four modules will be taken:

Individuals in Society introduces psychological procedures and methods of enquiry and illustrates them in three different areas: child development, social psychology and the study of individual differences.

Research Methods 1 introduces the range of research methods used in psychology, and focuses on developing an introductory understanding of data collection and analysis.

Biological and Cognitive Psychology introduces fundamental mechanisms and ideas in psychology by looking at perception, memory, learning and the biological basis of human behaviour.

Research Methods 2 extends the work done in the first module on research perspectives and develops understanding of more advanced techniques of data analysis.

Year 2

Four modules are taken:

Developmental and Social Psychology extends and builds on the material taught in the first year. You will study more detailed and specific accounts of research and theories in developmental and social psychology.

Survey and Qualitative Research Methods extends and builds on the material taught in the first year, particularly in relation to the design and analysis of questionnaires, observational methods and qualitative research methods. Data from interviews, observations and conversations lend themselves to qualitative analysis.

Biological Psychology, Perception and Cognition extends and builds on the material taught in the first year. You will gain more detailed knowledge of recent and current issues in the biological basis of behaviour, perception and low level cognitive processes.

Cognitive and Biological Research Methods further extends and builds on the material taught in the first year modules on research perspectives and quantitative methods. Topics studied include: factorial experimental designs, analysis of variance, the analysis of interactions and an introduction to research methods in neuropsychology and psychobiology.

Year 3

Three modules will be taken:

Special Option: you will choose one module to study in-depth (from an array of about 12 choices). While the choices vary from year to year, recent examples include:

- *Social Development in Children*
- *Thinking about Knowledge and the Mind*
- *Cognitive Neuropsychology*
- *Disclosure Processes in children and adolescents*
- *Research in Music Psychology*
- *Peer Relationships in Childhood and Adolescence*
- *Influences on Human Cognitive Performance*
- *Psychology, Health and Social Action*
- *Health Psychology*
- *Behaviour Analysis in Clinical Psychology*
- *Psychology of Time*
- *Human Memory*
- *Recognising and Remembering Words*

Individual Differences and Conceptual Issues extends and builds on the material taught in the first year. You will develop an evaluative understanding of theories and research relating to individual differences, conceptual and historical issues in psychology.

Individual Research Dissertation involves independent study, supervised by a member of the teaching staff. You will research an area of interest to you, plan and carry out an investigation, and write it up as a research report, utilising the methods and procedures taught in the earlier research methods modules. This is a 'double' module that runs over both semesters of the final year.

Year 3 (Major route only)

In addition, in their third year, students majoring in psychology will take four additional psychology-related modules. Three psychology modules offer one-to-one supervision by a research-active member of psychology staff. These modules will provide students with the opportunity to further specialise in areas of psychology, develop research methods expertise and develop new skills in writing (for publication) and presentation (conference style). Students will also take an elective module selected from psychology or approved subjects. See list on page 251.

Psychology

Summary of BSc Psychology Dual Honours and Major routes

	BSc Dual Honours	BSc Major
First Year	<ul style="list-style-type: none"> - Individuals in Society - Research Methods 1 - Biological and Cognitive Psychology - Research Methods 2 	<ul style="list-style-type: none"> - Individuals in Society - Research Methods 1 - Biological and Cognitive Psychology - Research Methods 2
Second Year	<ul style="list-style-type: none"> - Developmental and Social Psychology - Survey and Qualitative Research Methods - Biological Psychology, Perception and Cognition - Cognitive and Biological Research Methods 	<ul style="list-style-type: none"> - Developmental and Social Psychology - Survey and Qualitative Research Methods - Biological Psychology, Perception and Cognition - Cognitive and Biological Research Methods
Third Year	<ul style="list-style-type: none"> - Special Option - Individual Differences and Conceptual Issues - Individual Research Dissertation 	<ul style="list-style-type: none"> - Special Option - Individual Differences and Conceptual Issues - Individual Research Dissertation PLUS four modules chosen from: - Special Topics in Psychology - Research Apprenticeship (Max. 2) - Approved elective from Psychology or 'approved' subjects See list on page 251

Teaching and assessment

In the first and second years, modules are usually taught through a combination of three weekly lectures, a practical class and seminars. The practical classes involve developing skills in the use of experimental methods, survey work and qualitative analysis. Some of these practical classes are written up in the form of individual or group reports.

First and second year modules are generally assessed by a combination of coursework and examination. First year students also engage in research participation time during which they develop their appreciation of psychological research and learn about the research conducted within the School.

In the third year, there are no practical classes but students will draw on their knowledge of methodology by completing a research dissertation that runs across both semesters. The other third year

modules are assessed by a combination of examinations and coursework, or by examination only.

Skills and careers

The unique combination of skills that characterises the study of Psychology is transferable across disciplines and into the world of work. These include skills in oral and written communication, the use of IT, numeracy and data analysis, team working, problem-solving and skills in research methodology.

We also intend that our programme will prepare our graduates for, and stimulate their enthusiasm about pursuing continuing educational opportunities following graduation, and indeed the course prepares our students to study Psychology at postgraduate level and to pursue professional training courses in an applied setting.

Membership of professional institutions

This programme is accredited as conferring eligibility for the Graduate Basis for Chartered Membership (GBC) by the British Psychological Society, which is the first step towards becoming a chartered psychologist. Students should note that to be awarded GBC by the British Psychological Society, they must pass their empirical dissertation and overall achieve a minimum standard of qualification of second class Honours.

Keele students who elect to take part in the Study Abroad programme take an extra module in their final year to ensure their eligibility for GBC.

Some more ideas...

Psychology and Biology, page 71; Psychology and Human Biology, page 75; Psychology and Criminology, page 111; Psychology and Human Resource Management, page 163; Psychology and Neuroscience, page 211; Psychology and Sociology, page 259.

“I continue to be impressed with the variety of the programmes offered at Keele, which is clearly attractive and engaging.”

Professor Martin Hagger,
External Examiner



Social Work

Course: Single Honours

Entry requirements: See page 283–292

Approximate intake in 2013: 30

Study abroad: No

UCAS Single Honours programme

L500 Social Work

Social Work Programmes in England are currently undergoing a significant revision as a result of government policy. This may mean that some elements of the programme identified in the text may be subject to change.



The course offers

- Excellent staff–student relationships
- Excellent partnerships with social care providers
- Education and training at Keele is delivered by an enthusiastic staff group who bring a wide variety of experience from practice and who are all research-active and retain strong links with practice. Staff interests include: child rights, gerontology, ethnicity, and the value base of social work. Social Work at Keele is part of the highly successful School of Public Policy and Professional Practice with research rated as ‘internationally excellent’
- An informed and critical approach to the acquisition and appreciation of knowledge about the social context within which social work is practised

Social Work education and research has a long history at Keele and is offered at undergraduate and Masters level. On successful completion of the degree, students will be entitled to use the protected title of ‘social worker’.

The aims of the BA (Hons) Social Work are to:

- Provide an educational experience which ensures that all students are able to address and critically engage with the formal knowledge base underpinning social work practice
- Provide the basic professional training in social work to meet the requirements set by the General Social Care Council (GSCC)
- Provide a programme of study that develops the knowledge, skills and values required for effective anti-discriminatory practice in a diverse society
- Develop students’ personal and intellectual qualities so that they are able to respond effectively to changes in society and social work practice
- Prepare students for employment and lay the foundations for continuing professional development

How to apply

Admission to the course is by application form and interview. The interview process will include a written test based on an article which will be provided on the day. All candidates are expected to have some general knowledge of social services and broad social problems. It is important that candidates demonstrate awareness of the field they are seeking to enter. Although it is not a requirement for entry, relevant experience is helpful.

Criminal Records Bureau (CRB) check

Applicants offered a place on this degree programme will also be required to apply, through the University, for an Enhanced Disclosure from the Criminal Records Bureau (CRB) (see page 284). The University follows the CRB Code of Practice in these issues (see www.crb.gov.uk) and can provide a copy of this Code on request. The University also has a policy on the recruitment of ex-offenders. It should be noted that having a criminal record is not necessarily a bar to obtaining a place on this course.

Funding

Details re bursary information can be found on the NHS Business Services Authority website: www.nhsbsa.nhs.uk/students

Course content

In line with professional and academic regulations, the course leading to the award of degree in Social Work aims to develop high levels of academic and professional competence. In conjunction with relevant academic study, students are required to spend 200 days of their studies in assessed practice learning in social care settings.

Registration with the General Social Care Council (GSCC)

In the first year, students must demonstrate their suitability for professional training in order to progress to the next stage of the award.

Social work is a regulated profession. As a social work student you will be expected to register with the General Social Care Council (GSCC), the social work profession’s regulator, and adhere to the standards set out in the Code of Practice for Social Workers.

As well as regulating individual social workers and students, we also regulate the performance of social work courses, the reports of which are published on our website, so you can check to see how each university is performing.

For more information visit: www.gsc.org.uk

Year 1

Social Work Processes is designed to prepare you for professional competence in the basic processes of Social Work practice.

Personal and Professional Development spans two semesters and aims to develop your personal, interpersonal and wider communication skills as preparation for direct work with service users and carers. It will also begin to develop your understanding of the modes and means by which social work services are delivered. As part of this module you will prepare for, and undertake, 30 days’ practice learning.

Human Growth and Development is designed to provide basic, underpinning knowledge of human growth and development in order to prepare you to practise more effectively with diverse client groups.

Inequality and Discrimination is intended to provide a basic understanding of the nature and impact of inequality and disadvantage in contemporary Britain and thus develop an appreciation of the broader context within which social work is practised.

Foundations of Social Work is designed to provide an introduction to the values, ethical principles and general professional boundaries (including policy and law) that may give rise to dilemmas and conflicts when working with individuals, families, groups and communities, with the aim of enabling work towards resolution.

Key Concepts in Social Sciences is intended to develop a basic appreciation of a number of key concepts from the social sciences that are used to understand and explain the relationship between individuals and their social contexts. Thus, it seeks to develop an awareness of how social processes create and sustain identity, social structures, social roles and perspectives.

This module will be particularly valuable for students who have not previously studied any of the social sciences.

Introduction to the Legal Processes aims to provide you with an introduction to the complex relationship between law and practice in social work by examining the sources of law and the formal operation of the judicial system in the UK.

Area of Practice (1): Working with Children and Families is designed to provide basic underpinning knowledge of the experience and circumstances of children and their families as service users, and the service delivery context (law, policy and practice) in which social work with children and families takes place, with the aim of enabling students to practise effectively with this user group.

Area of Practice (1): Working with Adults is designed to provide basic underpinning knowledge of the experience and circumstances of adult service users and the service delivery context (law, policy and practice) in which social work with adults takes place, with a view to enabling students to practise effectively with adult service users.

Year 2

Social Work Theories and Methods (1) is designed to prepare you for a theoretically informed practice in which you are able to provide clear and reasoned justifications for the methods you employ.

Area of Practice (2): Working with Children and Families builds on the Level 1 module **Area of Practice (1): Working with Children and Families** and is designed to provide further underpinning knowledge of the experience and circumstances of children and families as service users and the service delivery context, to enable you to practise more effectively with this service user group. Specifically, you will further develop knowledge in relation to: law, risk assessment, monitoring and review, working with children and families who have complex needs and inter-agency working.

Area of Practice (2): Working with Adults builds on the Level 1 module **Area of Practice (1): Working with Adults** and is designed to provide further underpinning knowledge of the experience and circumstances of adult service users and the service delivery context in which social work with adults takes place to enable you to practise more effectively with adult service users and their carers. Specifically, you will further develop knowledge in relation to: law, risk assessment, monitoring and review, working with adult service users who have complex needs and inter-agency working.

Personal and Professional Development aims to enable you to apply your personal, inter-personal and wider communication skills as well as your knowledge of key social structures and processes to develop a repertoire of interventive techniques to assist service users. It is also intended to enable

Social Work

you to begin to refine your sense of their professional role and to operate as informed, competent and ethically sound professionals.

You will prepare for, and undertake, 70 days' practice learning.

Year 3

Social Work Theories and Methods (2) is designed to prepare you for a theoretically informed practice in which you are able to provide clear and reasoned justifications for the methods you employ.

Social Work Research provides the opportunity to develop an understanding of the research process and the application in practice settings. In addition, it provides the opportunity to research, analyse and use current knowledge of best social work practice by undertaking a library-based, evaluative study of an issue drawn from social work practice.

Applying Social Work Knowledge is taught alongside, and will contribute to, the skills and knowledge being acquired in the following Level 3 modules:

Social Work Methods and Theories (2) and Social Work Research. You will have the opportunity to participate in a series of workshops that address current social work knowledge, research and practice, with the aim of developing your own critical social work practice. Inter-professional working, and wherever possible, inter-professional learning, will be integral to the workshops.

Personal and Professional Development seeks to enhance your interventive repertoire and develop your sense of yourself as a professional social worker, responsible for practice within the context of your agency.

You will prepare for, and undertake, 100 days' practice learning.

Teaching and assessment

A variety of teaching, learning and assessment strategies are integrated into the programme. Students will be expected to take responsibility for their own learning and the volume of independent work increases over the three years of the course.

All student social workers will be assessed in the following:

- *Practical application of skills, knowledge, research and analytical abilities to deliver a service that creates opportunities for users*
- *Ability to reflect social work values in practice*

- *Ability to manage change and deliver required outcomes*
- *Ability to communicate with users and carers of all ages and from all sections of the community*
- *Knowledge of Social Work theory and how it can be applied in practice*
- *Ability to function effectively and confidently in multidisciplinary teams*

Skills and careers

On successful completion of the programme, students will have achieved the recognised professional qualification in Social Work. Career opportunities are available in the statutory, voluntary and private sectors.

“Enthusiastic, experienced lecturers who are really interested in your progress.”

BA (Hons) Social Work student, 2006-2009

“A small, friendly course with supportive staff and students.”

BA (Hons) Social Work student, 2006-2009

Point of pride

Social Work at Keele is ranked 3rd in the country by Guardian H.E. League Tables and 4th in the Complete University Guide.



Sociology

Course: Single Honours, Dual Honours, Major

Entry requirements: See page 283–292

Approximate intake in 2013: 90

Study abroad: Yes

UCAS	Single Honours programme
L30L	Sociology
UCAS	Dual Honours combinations
NL4H	Accounting
LT37	American Studies
FL73	Applied Environmental Science
CL8H	Applied Psychology
FL53	Astrophysics
CL73	Biochemistry
FL13	Chemistry
LG31	Computer Science
GL43	Creative Computing
LMH9	Criminology
LL13	Economics
LX33	Educational Studies
LQ33	English
PL3H	Film Studies
LN33	Finance
FLK3	Forensic Science
LLJ7	Geography
FL63	Geology
LLH7	Human Geography
LN36	Human Resource Management
LG34	Information Systems
LL3F	International Relations
LM31	Law
GL13	Mathematics
PL33	Media, Communications and Culture
FLC3	Medicinal Chemistry
LW33	Music Technology
LF38	Physical Geography
FL33	Physics
LL32	Politics
CL83	Psychology
GL73	Smart Systems
L300	Sociology (Major). Please indicate your choice of second subject (chosen from those listed above) in the 'further information' section of your UCAS form.
L390	Sociology with Social Sciences Foundation Year. This four-year degree course is designed for students who wish to study Sociology but lack the necessary background qualifications. See page 275.

The course offers

- An innovative and imaginative introduction to Sociological thinking and methodologies
- Specialist modules based on research expertise and focusing on student interests: globalisation, families, work, identity, body/health, media cultures, conspiracy, urban space, risk
- Subject-specific transferable skills that can be useful in employment such as research skills, statistical analysis, and IT skills
- Development of personal and interpersonal skills to aid learning such as group work skills, presentation skills and independent research skills
- The opportunity to study abroad at one of our partners worldwide for a semester in the second year

Sociology at Keele takes place in an open and responsive environment where students can explore the rapidly changing social world. We aim to engage students in important debates about contemporary social issues referring to concepts and events at the cutting-edge of the discipline.

At the forefront of our teaching is an understanding that we live in a world characterised by rapid social, political, economic and cultural change. While traditional institutions, such as the family, religion and work, have been forced to adapt to the new realities of global society, people's lives carry on at a local everyday level. We work, love, raise families and grow old. We speak to each other, learn about the world and think about our own place in society. Sociology at Keele aims to explore the events that shape our personal lives and think about how social institutions impact on our experiences of community.

The central objective of Sociology is to link private problems to public concerns in order to help us to better understand our lives and respond constructively to problems that might seem otherwise impossible to resolve. But Sociology is not just about contemporary life. Even though it seems that our own experience of social change is the most turbulent in human history, reflection on the massive upheavals of the last 200 years can show how current changes relate to a much longer story of social evolution. By tracing the history of social change, it is possible to see how ideas, such as individualism, citizenship and class, began to emerge. In this context, Sociology is an essential form of knowledge for future generations because it offers us the opportunity to think about aspects of our social lives that we would otherwise take for granted.

Sociology has been taught at Keele for over 50 years and we take pride in combining world-class research with lively and accessible teaching. We are strongly committed to providing an intellectually challenging and supportive space for students to learn and grow.

Course content

Our courses are designed to provide students with a solid foundation in the sociological tradition together with an introduction to contemporary social problems through an innovative range of core and elective modules. Apart from core content that has been specially designed to relate to the modern world, the Sociology programme offers students the chance to critically engage with specialisms followed by academics that reflect the diversity of concerns in Sociology today.

In the first year of the programme we provide an extensive grounding in the key elements of the discipline of Sociology. We begin by looking at the core concerns:

- *What is the purpose of Sociology?*
- *What is society?*
- *How do societies function?*
- *What happens when societies break down?*
- *How are societies divided up and what impact can that have on the people who inhabit them?*

In addition, we will discover how Sociology's pioneers sought to understand the relationship between individuals and society, and question how social context, economy, politics and culture impact on our sense of identity. We will explore how modern societies came into being and how Sociology influenced the world just as it studied it.

In the second year, students will combine core modules on contemporary sociological theory and research methods with electives that focus on specific areas of social life and experience. The second year of the course is traditionally where students begin to identify individual interests and build their course to suit those interests.

In the third year, students have the option of completing a dissertation for which they will work alongside an individual supervisor to complete a report on an area of specialist interest. A number of advanced electives are available in Level 3, exploring research-led specialisms of staff. The final year is the culmination of a student's grounding in core areas of sociology and allows them to apply this knowledge by developing their interests through independent work.

Year 1

Core modules

Classical Sociology introduces the thought of the classical sociologists of the 19th century: Marx, Weber and Durkheim.

Apart from considering the central works and key ideas of these foundational sociologists, we also focus on the enormous changes that took place in the historical period we call 'modernity'. This course also focuses on the value of Sociology to contemporary life and explains why the ideas of Marx, Weber and Durkheim are as relevant to the world today as they were in the 19th century.

Social Inequalities in the Contemporary World considers society as a site of conflict and contestation. The purpose of this course is to investigate the way different inequalities, such as class, race, gender, age and disability, cut across society and hinder the emergence of a fair world. This is an essential area of investigation for contemporary sociologists because it is only by challenging dominant understandings of inequality – that they are somehow natural and will always exist – that we can begin to think about what kind of changes would be required to make society more inclusive.

Electives include:

- *Researching British Society*
- *Modernity and its Darkside*
- *Self and Society*
- *Sport and Society*

Year 2

Core modules

20th-century Social Theory explores a range of social theories associated with the concerns of the modern world. It examines how key thinkers attempted to investigate the relationship between agency and structure, analyses key social institutions such as the family, work and culture, in order to question how society is organised according to power relations.

Research Methods provides grounding in the main approaches to understanding and finding evidence about society and teaches methods for collecting data that enable students to conduct their own social research.

Electives include:

- *Sociology of the Body*
- *Crime, Morality and the Media*
- *Globalisation*
- *City, Culture, Society*
- *Sociology of Work*
- *Health and Society*
- *Witchcraft, Zombies and Social Anxiety*
- *Cultures of Consumption*

Year 3

In the third year, students will deepen their knowledge of selected sociological topics by choosing from a list of research-led modules taught by the specialist in that field.

Apart from the diverse range of elective modules, a key feature of the Sociology programme is the final year dissertation that takes the form of a report on research designed and executed by students. Each student who elects to complete a dissertation in the subject works with a supervisor who oversees the planning and completion of the project.

Electives include:

- *Conspiracy!*
- *Space and the City*
- *The Sociology of Parenting*
- *Gender and Consumption*
- *The Virtual Revolution*
- *Material Culture*
- *Medical Sociology*
- *Risk and Society*
- *Sex, Death and Desire*

Teaching and assessment

At Keele, teaching is closely tied to research interests. This means students will be taught by enthusiastic staff who are closely involved in charting contemporary society and changing sociological debate. We employ a variety of teaching and learning methods designed to encourage active participation and endeavour to ensure that all students feel able to contribute to class activities.

The programme assesses students by a variety of methods including examinations, essays, tutorial performance, portfolios, posters, reports, research methods exercises and a final year dissertation.

Point of pride

Out of around 200 Sociology H.E. programmes in the UK, Sociology at Keele is rated 20th, 21st and 26th in the three major League Tables.

Sociology

Skills and careers

Throughout the course we are keen to ensure that students reach their full potential by helping them to develop a range of communication skills that will be of benefit when they enter the employment market. We encourage both individual performance and team work and show our students how to develop personal communication and presentation skills.

After graduation, our students embark on a variety of careers, frequently entering the public sector, education, welfare and the legal professions. Others enter industry, commerce, charity and development work and the culture industries. Some students continue their education through completion of higher degrees and further research training.

“The sociology staff at Keele are amazing, they are very interested in their students and are always available for feedback, support and advice.”

Some more ideas...

Sociology and Criminology

Crime, deviance and social order are some of the most taxing issues our society faces. Sociology and Criminology complement each other well in enabling students to understand broad issues revolving around social structure and social change, as well as the ways in which institutions, power systems, identity, culture and economics impact on crime and disorder. Sociology supports Criminology students by offering depth and background understanding. In many respects the history of Criminology is rooted in Sociology. As such, many of the ideas criminologists use are sociological terms. For this reason, Sociology can help Criminology students to better understand concepts, analytical techniques and social history. On the other hand, Criminology supports Sociology by offering a specific field for the application of sociological insights. Many students who study this combination find their degree useful for careers in probation, social work, socio-legal work and policing.

Sociology and Psychology

This combination is ideal for students who want to work in a wide variety of ‘people’ professions or desire an in-depth knowledge of society and its prescribed rules for behaviour. Sociology offers a good understanding of the

relationship between self and society, enables us to think about how society works, provides the tools to enable us to analyse social development and helps us to grasp major events that have impacted on society and our view of the self. Studying Sociology alongside Psychology allows students to work through psychological analyses by applying them to different social contexts and different social behaviours. For example, students may want to understand the meaning of the different roles offered to us by society. What does it mean to be a man or a woman in contemporary society? How have gender roles changed over the last 50 years? In this way Sociology can help us to examine the changing status of different values, help us to think about how these values are internalised by people and suggest reasons why people look for norms to follow in the first place. Many students who study this combination find their degree useful for starting up careers in the public sector and in health-affiliated work.

See also: [Sociology and Human Geography, page 143](#); [Sociology and Human Resource Management, page 163](#).



International Year One

Course:	International Year One – 4 term
Course length:	4 terms (September to August)
Age on entry:	Students are usually 17 years of age or above
English language entry requirement:	IELTS 5.0 (minimum 5.0 in writing) or TOEFL Pearson Test of English equivalent
Academic entry requirement:	Top High School graduation grades or equivalent
Tuition fee:	see www.keele.ac.uk/isc

Course:	International Year One – 3 term
Course length:	Three terms (September to June or January to August) <i>International Relations and Politics is only available for a January start date.</i>
Age on entry:	Students are usually 17 years of age or above
English language entry requirement:	IELTS 5.5 (minimum 5.5 in writing) or TOEFL Pearson Test of English equivalent
Academic entry requirement:	Top High School graduation grades plus evidence of further study or equivalent
Tuition fee:	see www.keele.ac.uk/isc

Course:	International Year One – 3.5 term
Course length:	Three and a half terms (October to August)
Age on entry:	Students are usually 17 years of age or above
English Language entry requirement:	IELTS 5.5 (minimum IELTS 5.5 in writing), or TOEFL Pearson Test of English equivalent
Academic entry requirement:	Top High School graduation grades or equivalent
Tuition fee:	see www.keele.ac.uk/isc



The course offers

International students that do not meet the requirements for direct entry to an undergraduate degree can join the International Year One at the Keele University International Study Centre. The courses combine academic subjects, study skills and English language training to prepare students for entry to the second year of an undergraduate degree at Keele.

Study options

Students can choose one of four routes:

- *Business and Management*
- *Computing*
- *International Relations and Politics*
- *Media*

Teaching and assessment

The International Study Centre (ISC) provides a highly supported learning environment, introducing the style of teaching that students will experience when they progress on to their degree. Students will experience tutorials, seminar-style classes and larger group lectures. All routes are modular in structure.

Students will be assessed regularly throughout the course. This will ensure that they are on track to achieve the standard required for progression on to their chosen degree. Progress is monitored through continuous coursework and specific assessments at the end of each term or module. Students will also be required to complete a series of presentations and extended essays as part of their overall assessment.

English Language Preparation (ELP)

Additional English language training is available at the International Study Centre for students who need to improve their standard to the required level.

Progression to your degree

Joining the International Year One guarantees that students will receive a conditional offer of a degree place at Keele University. Once students have successfully completed the course and have met the required entry standards, they will proceed directly to their preferred degree programme.

For a full list of available degrees see overleaf or visit our web pages.

Further information

Student Enrolment Advisers
Keele University International Study Centre
1 Billinton Way
Brighton BN1 4LF, UK
T: **01273 339333**
F: **01273 339398**
To apply online or for course enquiries see www.keele.ac.uk/isc

Point of pride

97% of Keele University International Study Centre students who completed the course were offered a place to study at the university in 2011.

“I have made friends with people from all over the world. The small class sizes at the ISC have been beneficial to my learning experience as class discussions are easier, preparing me for second year undergraduate degree study at Keele. The teaching here is of a very high standard. Tutors are helpful and friendly, and always ready to explain further and lend a helping hand.”

Theodora Halim,
Nigeria

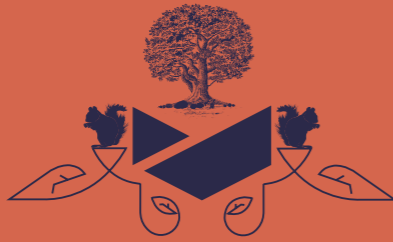
The choice of degree subjects include:

Business and Management	
Single Honours	Accounting and Finance
Dual Honours	Accounting and: • Business Management • Human Resource Management • International Business • Marketing
Single Honours	Business Economics
Dual Honours	Business Management and: • Accounting • Economics • Finance • Human Resource Management • Marketing
Dual Honours	Human Resource Management and: • Accounting • Business Management • Economics • Finance • International Business • Marketing
Single Honours	Information Technology Management for Business
Dual Honours	International Business and: • Accounting • Economics • Finance • Human Resource Management • Marketing
Single Honours	Management
Dual Honours	Marketing and: • Accounting • Business Management • Economics • Finance • Human Resource Management • International Business
Computing	
Single Honours	Computer Science
Dual Honours	Computer Science and: • Business Management • Human Resource Management • International Business • Marketing
Dual Honours	Creative Computing and: • Business Management • Human Resource Management • International Business • Marketing

Computing continued	
Dual Honours	Information Systems and: • Business Management • Human Resource Management • International Business • Marketing
Single Honours	Information Technology Management for Business
Dual Honours	Smart Systems and: • Business Management • Human Resource Management • International Business • Marketing
International Relations and Politics	
Single Honours	International Relations
Dual Honours	International Relations and: • Accounting • Business Management • Computer Science • Creative Computing • Economics • Human Resource Management • Information Systems • International Business • Marketing • Politics • Smart Systems
Single Honours	Politics
Dual Honours	Politics and: • Accounting • Business Management • Computer Science • Creative Computing • Economics • Information Systems • International Business • International Relations • Marketing • Media, Communications and Culture • Smart Systems
Media	
Dual Honours	Media, Communications and Culture and: • Business Management • Finance • Human Resource Management • International Business • International Relations • Marketing • Politics

For up-to-date information on the progression degrees and grades required, visit www.keele.ac.uk/isc





I am looking for a Foundation Course

268	General Foundation Year
269	Health Foundation Year
271	Humanities Foundation Year
273	Science Foundation Year
275	Social Sciences Foundation Year
277	Foundation Year for the Visually Impaired
279	International Foundation Year

Whether you have non-traditional qualifications, want to change your subjects, had a break from education and wish to return or want a change of career – the Foundation Years at Keele provide an opportunity for students with diverse backgrounds to access an honours degree. The programme is an excellent introduction to study at University; some students who complete the Foundation Year continue at Keele and many of those obtain a first class or upper second class honours degree.

What the Foundation Year Provides

- An outstanding preparation for study at degree level
- Experience of a University ethos
- A wide range of entry routes
- A flexible modular programme, structured to your own needs
- Weekly contact with your personal tutor
- An opportunity to develop and embed your key academic and employability skills
- An extensive choice of optional extra modules, allowing you to try new subjects such as Forensic Science, Mandarin and Global Politics
- A variety of learning and teaching approaches: lectures, seminars, workshops and laboratory classes
- Diverse assessment methods
- Flexibility to decide on final subject choice for degree

The Course

Keele University boasts the longest running Foundation Year in the country, being established in 1949. Since then the programme has flourished and continues to evolve in order to meet the needs of students from a variety of learning backgrounds. It is highly student-centred and has a fully modular structure. The programme is very suitable for students from a wide range of backgrounds; around one-third of the total Foundation Year intake tends to have non-traditional qualifications.

All applicants must meet the University's general entry requirements but you will be given the opportunity to achieve subject-related requirements during the year. There is a central core that provides training in generic transferable skills; additional modules are chosen on an individual basis. Several subjects are studied in the Foundation Year, including those most closely related to your intended subsequent degree. Being taught on the University campus by University staff, the programme introduces students to the style and pace of a degree course.

Extended Degree Programme

In this case the entry requirements are as in the following pages and progression to your intended degree programme at Keele is guaranteed subject to passing the Foundation Year and meeting the module progression thresholds.

General Foundation Year Y004

The General Foundation Year is a one year programme that leads to an award of the Certificate in Foundation Year Studies. If you enrol on this programme, you will be assigned foundation year modules relevant to your future plans and subsequently be free to apply through UCAS for a place on a degree course in any University, including Keele.

The minimum entry requirements for automatic consideration for an offer on the General Foundation Year are:

- 160 UCAS points, together with
- a level two mathematics or science qualification (for some intended degree programmes GCSE grade C in mathematics is required) and
- either GCSE English language at grade C or 12 OCN credits in English Language as part of an Access to HE Diploma.

Applicants with non-traditional backgrounds who meet the numeracy and English language requirements, and feel they are suitably experienced and motivated should contact Professor Peter Haycock (p.w.haycock@acad.keele.ac.uk, T. +44 (0) 1782 734478).

The General Foundation Year can be taken full-time over one year, in which case application should be through UCAS (using code Y004). A part-time route is also available over two years, for which applications should be made direct to Keele.

International students

All international students with at least GCSE English language grade C, or IELTS 5.5 (with 5.5 in all subtests) or equivalent who are required to take a Foundation Year will enter the International Degree Programme (IDP). This is an extended honours degree with the Health, Social Science, Humanities or Science Foundation Year forming the first year. International students with IELTS 5.0 (including at least 5.0 in all subtests) will be eligible to apply for the one-year International Foundation Year as preparation for a degree course.

In addition, there is an Accelerated International Foundation Year which runs from April to September. Students who obtain IELTS 5.0 (including at least 5.0 in all subtests) by March may be eligible for this programme. For details, please contact Professor Peter Haycock (p.w.haycock@acad.keele.ac.uk, T. +44 (0) 1782 734478).

Health Foundation Year

Course: Health Foundation Year

UCAS **Single Honours programmes**

- B742** Adult Nursing
- B731** Children's Nursing
- B762** Learning Disability Nursing
- A104** Medicine
- B763** Mental Health Nursing
- B721** Midwifery
- B231** Pharmacy
- B1B9** Physiotherapy

Osteopathy: Direct application to the College of Osteopaths, 13 Furzehill Road, Borehamwood, Hertfordshire, WD6 2DG

www.collegeofosteopaths.ac.uk



The course offers

- **Intensive modules that provide the requisite background for those without the necessary qualifications for direct entry onto Honours courses in the Faculty of Health**
- **Access for students offering non-traditional qualifications to a wide range of health courses**
- **A broad grounding in academic and vocational principles and methods**

"I have enjoyed the Foundation Year very much and found it rewarding, challenging and valuable [...] I had the opportunity to gain experience in working with peers and in leading a team. Developing the communication skills needed to do this including motivating others and delegating tasks can be experienced and is rewarding. These skills can be practised on the Foundation Year and it gives an advantage going onto year one where these skills will also be developed. The Foundation Year tutors are helpful and supportive and are always available to give advice and feedback. I have made friends in the Foundation Year and we support and encourage each other in our studies to achieve the best results we can. The Foundation Year has improved my confidence immensely and I feel very well prepared going into year one of Pharmacy, having overcome many challenges."

Dale Brockley

Point of pride

Students gain valuable experience of reflective practice and group work which encourages inter-professional communication.

Course content

All students take a mixture of core skills modules together with academic modules related to their chosen degree programme.

The academic modules are selected from: general and organic chemistry, physical and inorganic chemistry, the human organism, sex and survival, anatomy, psychology and biomechanics. Skills modules include: numeracy, personal development, learning skills, counselling skills, IT, communication skills and visual impairment awareness training.

How to apply

All applications must be made through UCAS.

Students should apply for a specific course with a Health Foundation Year (see the codes in the fact file box and under each relevant subject section in this prospectus). You can discuss options with the Foundation Year Course Director before applying to Keele, but will not be able to change your choice of progression route within the Faculty of Health after accepting a place.

MOst/BOst Osteopathy at Staffordshire University

Students without the necessary qualifications to directly enter the MOst/BOst Osteopathy course at Staffordshire University may be able to take a preparatory Foundation Year in Osteopathy at Keele.

Progression

Progression to chosen degree programme is subject to passing all the Foundation Year modules. In certain cases the threshold mark for progression is higher than the basic pass mark for the module.

Students who pass the Foundation Year overall but do not obtain the requisite grades in all modules for progression to their chosen degree course are eligible to apply for transfer to courses in other faculties, subject to meeting the relevant prerequisites by the end of the year, but may not transfer to other Faculty of Health courses.

All students take Foundation Year modules to a total credit value of 120. In all cases progression is subject to passing all Foundation Year modules taken. The mark thresholds for progression to the next year of study vary between professions, as follows:

Entry requirements

To enter the Health Foundation Year, students who have or are studying for A-levels must have the following minimum qualifications:

Intended progression route	A-levels	GCSE English	GCSE Mathematics	Other requirements
Adult Nursing	CD any subject	Grade C	Grade C	3 additional GCSEs grade C
Children's Nursing	CD any subject	Grade C	Grade C	3 additional GCSEs grade C
Learning Disability Nursing	CD any subject	Grade C	Grade C	3 additional GCSEs grade C
Medicine	AAA (* see below)	Grade C	Grade C	An additional AS grade B
Mental Health Nursing	CD any subject	Grade C	Grade C	3 additional GCSEs grade C
Midwifery	CC any subject	Grade C	Grade C	3 additional GCSEs grade C
Pharmacy	BBB (** see below)	Grade C	Grade C	
Physiotherapy	ABB (***) see below)	Grade C	Grade C	

All students must pass Personal Development for Health Professionals

Medicine	At least 70% in all other modules
Midwifery	100% in Clinical Numeracy and at least 60% in all other modules
Nursing (all routes)	100% in Clinical Numeracy and at least 50% in all other modules
Pharmacy	At least 70% in all modules
Physiotherapy	At least 65% in all modules

* Must not have studied Chemistry beyond GCSE. Biology only accepted with other non-science A-levels. In all cases, an interview forms part of the admissions process.

** Must not have studied Chemistry or Biology beyond GCSE

*** Must not have studied Biology or PE at A2 level

A wide range of equivalent qualifications are accepted. For more details please contact the Foundation Year Centre.

Further information

For further information, please contact:

Ms Barbara Western
Foundation Year Course Director
Foundation Year Centre
Keele University
Staffordshire
ST5 5BG

T. 01782 733509
E. b.c.western@acad.keele.ac.uk

Up-to-date information can also be found on the Foundation Year web page at www.keele.ac.uk/foundationyear

Humanities Foundation Year

Course: Humanities Foundation Year

UCAS	Single Honours programmes
TV70	American Studies
Q3V0	English and American Literatures
W300	Music
J930	Music Technology
UCAS	Dual Honours combinations
TV70	American Studies
Q3VA	English
P3V0	Film Studies
VV10	History
P9V0	Media, Communications and Culture
W300	Music
J930	Music Technology
V5V0	Philosophy

Please note that after the Foundation Year in the above subjects students will progress to a Bachelor's degree in that subject, plus a second subject for Dual Honours.



The course offers

- A chance to sample humanities subjects at university level before making a final choice of Honours courses
- Intensive modules which provide the requisite background for specific Honours courses for those without the necessary qualifications
- Access for non-traditionally qualified students to a wide range of humanities courses
- A broad grounding in academic principles and methods

“As a mature student, I found the academic skills development especially useful preparation for returning to education after a considerable break... The tutors were always happy to provide excellent help and guidance on a range of issues... I would recommend the Foundation Year to anyone considering studying for a degree.”

Lawrence Rider

Point of pride

All Foundation Year students meet with their personal tutors for at least one hour each week.

Entry requirements

To enter the Humanities Foundation Year, students must normally have:

- at least 160 UCAS tariff points or
- the equivalent in other qualifications or
- relevant work experience

AND

- GCSE English Language at grade C or
- 12 OCN credits at level 2 in English through an Access to HE course

AND

- a level 2 numeracy qualification

For progression to a Dual Honours combination with a numerate discipline after the Foundation Year, GCSE mathematics at grade C or above is required.

Students intending to progress to Music must have:

- a practical music qualification to the equivalent of at least ABRSM grade 5

or (for the non-performance route only)

- a minimum of grade 5 Music Theory or GCSE Music grade C or equivalent, together with demonstrable musical experience.

Degree courses

The courses that can be entered automatically after successful completion of the Humanities Foundation Year are:

- American Studies
- American Studies (Single Honours)
- English
- English and American Literatures (Single Honours)
- Film Studies
- History
- Media, Communications and Culture
- Music
- Music (Single Honours)
- Music Technology
- Music Technology (Single Honours)
- Philosophy

These subjects, except Single Honours courses, must be combined with another humanities or social sciences subject (see under each course section in this prospectus). For a Dual Honours combination with a science subject, see the Science Foundation Year page 273 in this prospectus.

Course content

All students take core modules in the following skills: Writing for Humanities Students, Seminar Skills, Learning Skills, IT and Critical Thinking. In addition, modules are taken which are related to each of the degree subjects to be pursued in the remaining three years of the degree programme. The choice of modules is individual to each student, made in consultation with a Foundation Year tutor and will comprise a total of six humanities and/or social sciences modules.

Writing for Humanities Students and Seminar Skills

Humanities students must be able to communicate efficiently and professionally, using the conventions of their disciplines, to a wide range of specialist and lay audiences. This includes writing documents, giving oral presentations, participating in seminars and interpreting the work of others. These modules provide training in a wide range of forms of communication, laying the foundation for the communication skills required in future years.

Learning Skills

This module provides opportunities for students to consider their learning style as well as relevant information and advice about studying. The programme aims to look at the whole learning experience and individual approaches to studies. By the end, students will have had the opportunity to develop a variety of study skills, to consider strengths and weaknesses in relation to their studies, to reflect on what influences their learning and to consider how to make the best use of the available resources.

Information Technology

All students take two modules in IT, one in each semester: 'Word Processing, Presentations and the Web' and 'Spreadsheets, Databases and Computer Ethics'.

Critical Thinking

All students will take the module Critical Thinking that provides grounding in a range of thinking skills.

Option modules

A range of other humanities modules is available which provides a broad coverage of a particular subject area, including foreign languages. Some options can be taken to meet prerequisites for certain social sciences courses if students are intending to progress to a humanities/social sciences Dual Honours combination. If you have a free choice of modules available, after satisfying the relevant prerequisites for your degree courses, then you can choose one or more of these modules to broaden your general knowledge or to pursue specific interests.

How to apply

All applications must be made through UCAS.

Students should apply for a specific subject with a Foundation Year (see the codes in the fact file box and under each relevant subject section in this prospectus). Over the summer, prior to entry to Keele, students will be asked to decide provisionally which two Dual Honours subjects or Single Honours course they expect to take after the Foundation Year. You can discuss options with a Foundation Year tutor before arriving at Keele and may be able to change your choice following discussions with Foundation Year staff.

Further information

For further information, please contact:

Ms Catherine Gillions
Humanities Foundation Year Tutor
Foundation Year Centre
Keele University
Staffordshire
ST5 5BG

T. 01782 733454
E. c.e.gillions@acad.keele.ac.uk

Up-to-date information can also be found on the Foundation Year web page at www.keele.ac.uk/foundationyear

Science Foundation Year

Course: Science Foundation Year

UCAS	Single Honours programmes
C933	Biomedical Sciences
G401	Computer Science
F750	Environment and Sustainability
F800	Geography
F646	Geoscience
G101	Mathematics
UCAS	Dual Honours combinations
F913	Applied Environmental Science
F513	Astrophysics
C703	Biochemistry
C103	Biology
F103	Chemistry
F410	Forensic Science
F603	Geology
CF10	Human Biology
C723	Medicinal Chemistry
B143	Neuroscience
F803	Physical Geography
F303	Physics



The course offers

- **A chance to sample science subjects at university level before making a final choice of Honours courses**
- **Intensive modules which provide the requisite background for specific science Honours courses for those without the necessary qualifications**
- **Access for non-traditionally qualified students to a full range of science courses**
- **A broad grounding in scientific principles and methods**

"Everything about the course (timetabling, lectures, labs, staff, style of work etc..) was the same as an undergraduate course, but additional support was included to get you up to an undergraduate standard of work in a short space of time. Central to this support was the scientific skills that were taught such as lab report writing (including proof reading!), presentation skills and approach to lab work. As much as I thought I knew this material I soon found there was much still left to learn [...] Overall the Science Foundation Year provided me with not only a great basis in chemistry but allowed me to get to know the university and the academic staff, this gave me a head start in my degree as I felt comfortable in my surroundings, and confident enough to approach lecturers to ask questions about anything I didn't understand. My final course choice was Chemistry and Forensic Science which I graduated from with a 1st class degree in July 2007."

Dave Thompson,
Started in the Foundation Year and has now just completed a PhD in Forensic Science

Point of pride

The Science Foundation Year is taught by Keele academic staff, including internationally recognised researchers, using state-of-the-art facilities.

Entry requirements

To enter the Science Foundation Year, students must normally have:

- at least 160 UCAS tariff points or
- the equivalent in other qualifications or
- relevant work experience

AND

- GCSE English Language at grade C or
- 12 OCN credits at level 2 in English through an Access to HE course

AND

- GCSE Mathematics at grade C or above

Students intending to progress to Music must have:

- a practical music qualification to the equivalent of at least ABRSM grade 5 or (for the non-performance route only)
- a minimum of grade 5 Music Theory or GCSE Music grade C or equivalent, together with demonstrable musical experience.

Degree courses

The courses that can be entered after successful completion of the Science Foundation Year are:

- Applied Environmental Science
- Applied Psychology
- Astrophysics
- Biochemistry
- Biology
- Biomedical Science (Single Honours)
- Chemistry
- Computer Science (Single Honours)
- Environment and Sustainability (Single Honours)
- Forensic Science
- Geography (Single Honours)
- Geology
- Geoscience
- Human Biology
- Mathematics (Single Honours)
- Medicinal Chemistry
- Neuroscience
- Physical Geography
- Physics

These subjects, except Single Honours courses, must be combined with either another science, or a non-science subject (see under each course section in this prospectus).

Course content

All students take core skills modules in Numeracy, Communication and Learning. In addition, science modules are taken which are related to each of the science subjects to be pursued in the remaining three or four years of the degree programme. The choice of modules is individual to each student and made in consultation with a Foundation Year tutor.

Numeracy

All students take at least one numeracy module that covers the necessary background mathematics for the science modules in the Foundation Year, as well as providing a good grounding for the mathematical content of the science Honours courses. In addition, training will be provided in the use of software for data analysis and display.

Communication and learning

Scientists must be able to communicate efficiently and professionally, using the conventions of their disciplines, to a wide range of specialist and lay audiences. This includes writing documents, giving oral presentations and interpreting the work of others. These modules provide training in all aspects of scientific communication, laying the foundation for the communication skills required in future years. Training in learning and study skills is also provided. On arrival at Keele students will be asked to assess their own learning style, strengths and weaknesses; they will be instructed in the use of software to help them do this. They will then use this information to set themselves targets for improvement, in liaison with their tutors, and monitor progress during the year. These modules also address specific topics, such as time management, note taking and project work.

Science modules

Most of these courses are designed to give the necessary subject-specific training to enable Foundation Year students to meet the entry requirements of their intended Honours degree courses.

Option modules

In addition, other modules are available which provide broad coverage of a subject area. If students have a free choice of modules available after satisfying the relevant prerequisites for their degree courses, then they can choose one or more of these to broaden their general scientific knowledge or to pursue specific interests. Students intending to progress to a science/non-science Dual Honours combination may take some non-science modules in the Foundation Year in order to meet prerequisites for entry into the non-science degree course.

How to apply

All applications must be made through UCAS. Students should apply for a specific subject with a Foundation Year (see the codes in the factfile box on page 273 and under each relevant subject section in this prospectus). Over the summer, prior to entry to Keele, you will be asked to decide provisionally which two Dual Honours subjects or Single Honours course you expect to take after the Foundation Year. You can discuss options with a Foundation Year tutor before arriving at Keele and may be able to change your choice following discussions with Foundation Year staff.

Further information

For further information, please contact:

Professor Peter Haycock
Director of Foundation Year Programmes
Foundation Year Centre
Keele University
Staffordshire
ST5 5BG

T. 01782 734478
E. p.w.haycock@acad.keele.ac.uk

Up-to-date information can also be found on the Foundation Year web page at www.keele.ac.uk/foundationyear

Social Sciences Foundation Year

Course: Social Sciences Foundation Year

UCAS	Single Honours programmes
N4LO	Accounting and Finance
L1L3	Business Economics
GN5F	Information Technology Management for Business (ITMB)
L2L3	International Relations
M1L3	Law
L2LH	Politics
UCAS	Dual Honours combinations
NL43	Accounting
NL33	Actuarial Science
C810	Applied Psychology
N7L3	Business Management
G401	Computer Science
G450	Creative Computing
ML93	Criminology
LLC3	Economics
X3L3	Educational Studies
N3L3	Finance
L7LH	Geography
L7L3	Human Geography
N6L3	Human Resource Management
G500	Information Systems
N1L3	International Business
L2L3	International Relations
M1L3	Law
N5L3	Marketing
G101	Mathematics
L2LH	Politics
C8L3	Psychology
L390	Sociology
G700	Smart Systems

Please note that after the Foundation Year in the above subjects students will progress to a Bachelor's degree in that subject, plus a second subject for Dual Honours.



The course offers

- A chance to sample social science subjects at university level before making a final choice of Honours courses
- Intensive modules which provide the requisite background for specific Honours courses for those without the necessary qualifications
- Access for non-traditionally qualified students to a wide range of social sciences courses
- A broad grounding in academic principles and methods

Entry requirements

To enter the Social Sciences Foundation Year, students must normally have:

- at least 160 UCAS tariff points or
- the equivalent in other qualifications or
- relevant work experience

AND

- GCSE English Language at grade C or
- 12 OCN credits at level 2 in English through an Access to HE course

AND

- a level 2 numeracy qualification

For progression to a numerate discipline after the Foundation Year, GCSE mathematics at grade C or above is required.

Degree courses

The courses that can be entered automatically after successful completion of the Social Sciences Foundation Year are:

- Accounting
- Accounting and Finance (Single Honours)
- Actuarial Science
- Applied Psychology
- Business Management
- Business Economics (Single Honours)
- Computer Science
- Creative Computing
- Criminology
- Economics
- Educational Studies
- Finance
- Geography
- Human Geography
- Human Resource Management
- Information Systems
- Information Technology Management for Business (ITMB) (Single Honours)
- International Business
- International Relations
- International Relations (Single Honours)
- Law
- Law (Single Honours)
- Marketing
- Mathematics
- Politics
- Politics (Single Honours)

- Psychology
- Sociology
- Smart Systems

These subjects, except Single Honours courses, must be combined with another social sciences subject (see under each course section in this prospectus).

For a Dual Honours combination with a science subject, see the Science Foundation Year page 273 in this prospectus. For a Dual Honours combination with a humanities subject, see the Humanities Foundation Year page 271 in this prospectus.

Course content

All students take the core skills modules in Writing for Social Science Students, Seminar Skills, Learning skills, IT and Critical Thinking. In addition, modules are taken which are related to each of the degree subjects to be pursued in the remaining three or four years of the degree programme. The choice of modules is individual to each student and made in consultation with a Foundation Year course tutor.

Writing for Social Science Students and Seminar Skills

Social science students must be able to communicate efficiently and professionally, using the conventions of their disciplines, to a wide range of specialist and lay audiences. This includes writing documents, giving oral presentations, participating in seminars and interpreting the work of others. These modules provide training in a wide range of forms of communication, laying the foundation for the communication skills required in future years.

Learning Skills

This module provides opportunities for students to consider their learning style as well as relevant information and advice about studying. The programme aims to look at the whole learning experience and individual approaches to studies. By the end, students will have had the opportunity to develop a variety of study skills, consider strengths and weaknesses in relation to their studies, reflect on what influences their learning and consider how to make the best use of the available resources.

Information technology

All students take two modules in IT, one in each semester: 'Word Processing, Presentations and the Web' and 'Spreadsheets, Databases and Computer Ethics'.

Critical Thinking

All students will take the module Critical Thinking that provides grounding in a range of thinking skills.

Option modules

A range of other modules is available which provides a broad coverage of a particular subject area, including foreign languages. If students have a free choice of modules available after satisfying the relevant prerequisites for their degree courses, then they can choose one or more of these modules to broaden their general knowledge or to pursue specific interests.

How to apply

All applications must be made through UCAS.

Students should apply for a specific subject with a Foundation Year (see the codes in the fact file box on page 275 and under each relevant subject section in this prospectus). Over the summer, prior to entry to Keele, you will be asked to decide provisionally which two Dual Honours subjects or Single Honours course you expect to take after the Foundation Year. You can discuss options with a Foundation Year tutor before arriving at Keele and may be able to change your choice following discussions with Foundation Year staff.

Further information

For further information, please contact:

Mr Jonathan Cope
Social Sciences Foundation Year Tutor
Foundation Year Centre
Keele University
Staffordshire
ST5 5BG

T. 01782 733989
E. j.cope@acad.keele.ac.uk

Up-to-date information can also be found on the Foundation Year web page at www.keele.ac.uk/foundationyear

Point of pride

This programme provides the opportunity to experience a wide range of social science disciplines.

Foundation Year for the Visually Impaired

Course: Foundation Year for the Visually Impaired

Course code: Y001

Honours combinations: Many of Keele's Dual Honours combinations and Single Honours programmes can be taken with the Foundation Year for the Visually Impaired.



The course offers

- A chance to sample subjects at university level and university life in general before making a final choice of Honours courses
- The opportunity to develop independence in living and studying at university for visually impaired students
- Intensive modules which provide the requisite background for specific Honours courses for those without the necessary qualifications
- Access for non-traditionally qualified students to a wide range of courses
- A broad grounding in academic principles and methods

Entry requirements

To enter the Foundation Year for the Visually Impaired, students must normally have:

- at least 160 UCAS tariff points or
- the equivalent in other qualifications or
- relevant work experience

AND

- GCSE English Language at grade C or
- 12 OCN credits at level 2 in English through an Access to HE course

AND

- a level 2 numeracy qualification

For progression to a numerate discipline after the Foundation Year, GCSE mathematics at grade C or above is required.

Degree courses

Many courses can be entered automatically after successful completion of the Foundation Year for the Visually Impaired.

Course content

All students take core skills modules in Orientation and Independent Living Skills, Learning Skills and Information Technology.

In addition, modules are taken which are related to each of the degree subjects to be pursued in the remaining three years of the degree programme. The choice of modules is individual to each student and made in consultation with the Foundation Year Course Director.

Orientation and independent living

These two modules will provide additional training in getting around campus and confidence in both living and studying independently at university. Students will be required to reflect on their personal experiences and to demonstrate their learning through a competency element of the module.

Learning and communication skills

All students must be able to communicate efficiently and professionally, using the conventions of their disciplines, to a wide range of specialist and lay audiences. This includes writing documents, giving oral presentations, participating in seminars and interpreting the work of others. Students will take a learning skills module that will provide training in a wide range of forms of communication, laying the foundation for the skills required in future years.

This module also provides opportunities for students to consider their learning style as well as relevant information and advice about studying. The programme aims to look at the whole learning experience and individual approaches to studies. By the end, students will have had the opportunity to develop a variety of study skills, consider strengths and weaknesses in relation to their studies, reflect on what influences their learning and consider how to make the best use of the available resources.

Information technology

Most students take the module in Assistive IT. This module forms part of the general Foundation Year programme at Keele, with use of assistive technology available to visually impaired students.

Subject-specific modules

Students wishing to progress to certain degree programmes will be required to take designated modules. For example, those wishing to progress to the Law course will take a module in Introductory Law. Further information about required modules can be obtained from the Foundation Year Centre.

Option modules

A range of other modules is available which provide a broad coverage of a particular subject area. If students have a free choice of modules available after satisfying the relevant prerequisites for their degree courses, then they can choose one or more of these modules to broaden their general knowledge or pursue specific interests.

How to apply

All applications must be made through UCAS.

Students should apply for the Foundation Year for the Visually Impaired, UCAS code Y001. You can discuss options with the Foundation Year Course Director before arriving at Keele.

Further information

For further information, please contact:

Ms Barbara Western
Foundation Year Course Director
Foundation Year Centre
Keele University
Staffordshire
ST5 5BG

T. 01782 733509
E. b.c.western@acad.keele.ac.uk

Up-to-date information can also be found on the Foundation Year web page at www.keele.ac.uk/foundationyear

Point of pride

This course has been devised in consultation with the Royal National College for the Blind and Staffordshire A.S.I.S.T, the local sensory support service. It is the only course of its type in the country.

International Foundation Year (IFY)

Course: International Foundation Year (IFY)

Course code: Y002



The course offers

The International Foundation Year (IFY) is a one-year course for international students whose home educational system does not provide the necessary specialisation for direct admission to Honours courses. It offers a range of modules aimed at bridging the gap between current qualifications and the knowledge and skills required for Honours degree courses. It is also an excellent opportunity for students who do not meet Keele's minimum language entry requirements for degree programmes to improve their level of English while studying at a university in the UK. The minimum English language entry requirement for the IFY is IELTS (International English Language Testing System) level 5.0 (with at least 5.0 in each of the sub-tests) or equivalent.

Students who pass the IFY will be eligible to apply for an Honours degree programme at Keele, for which there is a progression agreement, or may decide to continue their studies elsewhere. Applications for subsequent degree programmes will need to be made through UCAS.

For an information pack please contact the International Recruitment Officer (details given on page 297). Applications should be made via UCAS.

The Foundation Year Centre

The Foundation Year Centre at Keele is internationally recognised for delivering high quality education aimed at preparing students for Honours degree courses. The Foundation Year has been running for over 50 years and is taught on the University campus by Keele's academic staff.

Course content

All students take core skills modules in English Language. In addition, they take modules related to the degree subjects which they wish to study after the IFY. If you join the course, you will be appointed a personal tutor who will see you at least once a week and oversee your academic development, as well as helping in other ways with regard to your being a Keele student. The choice of modules studied is individual to each student and you will be able to discuss with your tutor the best options for you.

The main focus of the International Foundation Year is English Language development appropriate to preparing students for academic study: this covers all aspects of listening, speaking, reading and writing. However, the programme is designed to address the whole learning experience and individual approaches to study. You will have opportunities to consider your learning style and reflect on what influences your own learning. You will also be given relevant information and advice about studying and how to make the best use of the available resources.

Assessment is through a combination of examination and coursework, so all students are aware of their level of attainment throughout the programme. After successfully completing this year you should have reached the required English language level to enter Year One of most of Keele's degree programmes. You will also have developed skills and knowledge relating to your chosen degree subject.

Please note that to continue to the Keele degree you need to make a new application through UCAS and also obtain a new CAS.

If you would like to study Business, Management, Computing, International Relations, Politics or Media, then you should apply for International Year One instead, see page 263.

Further information

For further information, please contact:

Ms Catherine Gillions
International Foundations Year Tutor
Foundation Year Centre
Keele University
Staffordshire
ST5 5BG

T. 01782 733454
E. c.e.gillions@acad.keele.ac.uk

Up-to-date information can also be found on the Foundation Year web page at www.keele.ac.uk/foundationyear

Point of pride

This is a long established course delivered on Keele Campus by Keele academic staff.



Applying to Keele

Applications for all undergraduate courses at Keele should be made through UCAS.

See www.ucas.com or page 285 for further details.

Specific guidance is given under the course entry profiles. Applications are dealt with in the order that they arrive from UCAS. Any query you may have on your application should be addressed to either the UK/EU Admissions Office or the International Admissions Office in the first instance.

At Keele, we do not operate a system of standard offers; we judge all applications on their individual merits and take account of all the information provided on the UCAS application form, including: predicted grades, AS-level results if certificated, reference, a personal statement, GCSE results and non-academic achievements.

We do not have preferred or specified subject combinations. We welcome applicants whose

studies cross traditional boundaries e.g. science/arts combinations, but equally we are happy to consider applicants whose studies are in more cognate areas.

We are happy to accept applications for deferred entry, provided that you have constructive plans for your year out. Under the UCAS scheme, it is not possible to defer entry for more than one year.

For further information on Keele's admissions policy, please contact the UK/EU or International Admissions Office (contact details on the back cover of this prospectus or use the links from www.keele.ac.uk/undergraduate).



Entry requirements

The detailed offer levels (pages 287-292) indicate the range of conditional offers we make; the actual offers will depend on each candidate's full application.

Students entering Keele are usually required to have, as a minimum, three A-level passes or the equivalent in other qualifications and GCSE grade C (minimum) in English Language and Mathematics or a science, or the equivalent in other qualifications. For some courses, depending on individual circumstances, there may be some flexibility for students who have chosen two AS-levels in place of a third A2 subject.

Some subjects require GCSE Mathematics for entry, sometimes at grade A or B (see pages 287-292 for further details).

If you do not have GCSE Mathematics or Science at grade C or above, please contact the Admissions Office for advice.

Requirements in A-levels and AS-levels

- Keele's conditional offers to candidates are generally made in terms of specified A-level grades.
- Admission to certain subjects will require the achievement of a minimum grade in a relevant A- or AS-level.
- A small number of our degree subjects require a specific subject background: these are the sciences, Accounting, Economics, English, Finance, Mathematics, Medicine, Pharmacy, Physiotherapy and Music. In many cases we will accept AS-levels in lieu of an A-level in the

relevant subject; please see the table on pages 287-292 for further details.

- For the purposes of programme requirements, 'Approved' Mathematics subjects are: Mathematics, Pure Mathematics, Applied Mathematics, Further Mathematics, Mathematics with Mechanics and Mathematics with Statistics.
- General Studies and Critical Thinking A-levels are only counted towards offers for certain courses, please see the table on pages 287-292 for further details.

We shall not make unconditional offers on the basis of AS-level results alone.

Equally, we shall not discriminate against a candidate who has performed poorly in AS-level examinations if other indicators (GCSE performance, reference and predicted grades) are satisfactory. We would encourage schools/colleges to indicate in the referee's report if a candidate's performance in AS-levels is below the expected standard, and offer reasons for this.

If you are not taking AS-level examinations at the end of Year 12 but proceeding straight to A-level assessment, your applications will be considered on the basis of other information on the UCAS application form and you will not be disadvantaged. Again, it would be helpful if the reference could indicate whether or not you had the opportunity to receive AS-level certification.

Reference from school/college

We would find it very helpful if these could include the following information:

- The number of AS-levels that the candidate could have taken under the school/college's teaching arrangements
- A comment on the AS-level results (if any) achieved by the candidate
- Any issues that might impact on the candidate's performance

Three-year degree entry requirements

Please note that our entry requirements are subject to change, for the most up-to-date information please visit our website at www.keele.ac.uk/undergraduate/

The grades given in this chart indicate the likely offer or range of offers that would be made to candidates. This chart is for general information only and Keele University reserves the right to vary offer conditions depending on a candidate's application.

For information on the offer level for a Dual Honours degree course, you should look at the offer levels for both subjects – the higher offer level or range is the one that will usually apply. For further details see our online prospectus at www.keele.ac.uk/undergraduate/

For entry requirements for Foundation Year Courses see pages 267-280.

Please note that all students must have GCSE English Language at grade C or above and unless Mathematics is specified in the table, students will need GCSE Science grade C or above. If you do not have these qualifications you should contact the Admissions Office for advice.

Entry to professional degree programmes

For the following degree programmes, there are some additional entry requirements:

- Nursing (pre-registration degree and diploma)
- Midwifery (pre-registration degree)
- Operating Department Practice (pre-registration diploma)
- Pharmacy (degree)
- Physiotherapy (degree)
- Medicine (MBChB)
- Social Work (Bachelor of Arts and Masters)

Interviews

Offers of places on all the above courses will only be made after candidates have passed an interview. Not all applicants will be interviewed, however, and an interview does not guarantee that an offer will be made; any offers may also carry academic conditions. Details of interview policies and arrangements are available on the web pages for the individual degree programmes.

Criminal Records Bureau (CRB) disclosure process

If you apply and are offered a place on one of the above degree programmes listed above, you will also be required to apply, through the University, for an Enhanced Disclosure from the Criminal Records Bureau.

The University follows the CRB Code of Practice in handling applications and in assessing the consequences (see www.crb.gov.uk) and can provide a copy of this Code on request. The University also has a policy on the recruitment of ex-offenders. Please note that having a criminal record is not necessarily a bar to obtaining a place on one of these courses.

Age on entry

Keele University will consider all applications from students, regardless of their age. However, for those professional courses where there are placements with external agencies (including the NHS) as part of the course, there may need to be a minimum age restriction to comply with health and safety regulations. Information will be available at Open Days or by contacting the relevant School or the Admissions Office.

Qualifications for entry

14-19 Diplomas

Keele University welcomes the introduction of the 14-19 Diplomas and will accept the Advanced Diploma as equivalent to three A-levels. Please note that for entry to a number of degree courses at Keele, particular subject backgrounds at Level 3 are required. In some such cases, subject-specific prerequisites may be met by including a qualification from a list specified by the relevant Keele programme as the 'Additional and/or Specialist Learning' element in the Diploma. Keele would also expect students to demonstrate a high level of attainment in all their Diploma work. We would advise all students taking the Advanced Diploma to contact Keele's Admissions Office before they make their UCAS application to discuss their options. Further information is also available on the UCAS website.

BTEC

We accept the BTEC National Diploma for entry onto the majority of our degree courses and usually ask for grades DDM-DDD overall. The BTEC National Certificate (usually at grades DD) is also acceptable and we would normally expect this to be combined with an additional A-level or equivalent Level 3 qualification. Please note that for some of our courses there are subject-specific requirements, please see the entry requirements table for details.

Scottish Certificate of Education

- Three subjects at Advanced Higher Level
- A pass in English and in Mathematics or a science subject at Standard grade or above. Please note that some courses specify a pass in Mathematics

You should contact the Admissions Office for the offer range for your particular course combination.

International Baccalaureate

Offers will be based on an overall Diploma points score. Offers are normally in the range of 25-28 points (except for Medicine and Health-related courses). Some courses may require a specific points score in a relevant subject. We also require an acceptable level in English Language and a science or Mathematics (some courses will require a particular level of attainment in Mathematics). Please see the table for details.

French Baccalaureate

- Conditional offer level will depend on the combination of subjects applied for
- An acceptable level in English Language and a science or Mathematics (some courses will require a particular level of attainment in Mathematics)

You should contact the Admissions Office for the offer range for your particular course combination.

European Baccalaureate

- A minimum average score of 60% in the European Baccalaureate (some courses may require a higher average score)
- An acceptable level in English Language and a science or Mathematics (some courses will require a particular level of attainment in Mathematics)

You should contact the Admissions Office for the offer range for your particular course combination.

Access to Higher Education

We accept Access to Higher Education Diplomas and work closely with the colleges in the Open College Network in the North West Midlands. We would usually require 60 credits with at least 45 passed at Level 3 and we may require some Level 2 units. For some degree subjects, you will need to have studied specific subjects at Access or equivalent level. Please contact us for advice.

Other qualifications

Candidates offering alternative qualifications, e.g. NVQ Level 3, should contact the Admissions Office before making any application.

Please note that we will usually require you to be undertaking some formal study before you enter Keele, even if you have previously gained the necessary qualifications for entry.

Candidates offering qualifications not mentioned here may still be considered for admission to the University provided that their qualifications satisfy the Senate Regulations and show the candidate to be acceptable for the courses offered at Keele. Please contact the Admissions Office for further information.

Progression agreements

Keele has progression agreements with some local colleges for entry to certain courses.

If you are studying at a further education college in Staffordshire, Shropshire, Stoke-on-Trent or Telford and Wrekin please consult your careers advisor or the Keele Admissions Office. Information is also available on the local Lifelong Learning information hub at <http://infohub.linstaffordshireshopshire.org> (click on 'Keele University').

If your college has a progression agreement with Keele, you should indicate this in the 'Further details' section on your UCAS application form.

Foundation Year

If you are not currently undertaking any formal study, or if you have been out of formal education for more than three years and are not qualified to A-level or BTEC standard, we may be able to offer entry to our Foundation Year programmes.

For advice on these, please contact.

Professor Peter Haycock

Director of Foundation Year programmes
Foundation Year Office
Keele University
Staffordshire ST5 5BG

T. **01782 734478**

E. **p.w.haycock@acad.keele.ac.uk**

Candidates offering qualifications not mentioned here will still be considered for admission to the University provided that their qualifications satisfy the Senate Regulations and show the candidate to be acceptable for the courses offered at Keele.

For further information on applying with other qualifications, please contact.

Claire Evans

UK/EU Admissions Officer
Keele University
Staffordshire ST5 5BG

T. **01782 734156**

E. **c.e.evans@acad.keele.ac.uk**

International applicants, see page 293.

Applying online

For entry to all full-time higher education courses at universities and colleges in the UK, you must apply online at www.ucas.com

There are three types of applicant.

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.

You should seek advice from your teacher or careers advisor at your school or college. You should fill in an online application and submit it to a member of staff. After checking the details, and having added the academic reference, your school or college will submit the completed application online to UCAS. Payment is online using a credit card or debit card. You may also be able to pay through your school or college.

Independent applicants in the UK:

other UK applicants who are not at school or college, apply online independently.

Those who require advice on making an application should consult local 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.

International applicants outside the UK (EU and worldwide): unless a candidate's school or college is registered with UCAS, individuals from the EU (excluding the UK), and worldwide can 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 to fill in the online application, plus help text where appropriate. UCAS also has a comprehensive guide called Applying Online, which can be downloaded from www.ucas.com

Visit Days for applicants

If you apply to Keele and are made an offer, we will invite you to one of our Visit Days, which are held on certain Wednesdays and weekend days in February and March. Academic schools are open and you can have a tour of the campus and see inside student accommodation. Admissions and other support staff and current students are also available to answer any questions. Further information can be found at www.keele.ac.uk/visitsdays/

Access to Keele (A2K) scheme

Access to Keele (A2K) is a scheme coordinated by Keele University to support students with their preparations for a transition to Higher

Education. Participation in the scheme will be taken into consideration should a student apply to a course at Keele.

A2K is run by the Outreach and Widening Participation Section at Keele. To register for the scheme, students will have to meet HEFCE's WP requirements. There are a number of ways in which they can do this; for example, no family history of Higher Education, living in a low participation area, or having a disability. Further details on these criteria, and how to apply, are available on the website.

The scheme will run throughout the academic year and is for students in Year 12. It is divided into three streams: experiential, skills, and academic. For the skills and experiential elements, participating students will be expected to attend a campus event and produce a piece of reflective work afterwards. There will be several possible methods of completing the academic stream, including attendance at subject specific sessions on Keele campus or working through a series of online materials.

All students enrolled on the scheme will be registered on an e-mentoring scheme which will pair them up with a current Keele student. The e-mentoring relationship will support participants in completing the scheme and is also designed to alleviate any concerns they have regarding Higher Education.

For further details, please contact.

Kate Mayer WP Project Assistant

Keele University
Staffordshire ST5 5BG

T. **01782 734480**

E. **a2k@acad.keele.ac.uk**

W. **www.keele.ac.uk/a2k**



If you wish to apply for a Dual Honours course, please check the entry requirements for **BOTH** subjects, the higher offer is the one that will usually apply.

Please note that the standard offers below are expressed in terms of A-level grades. However, we accept a wide range of qualifications for entry to our degree programmes. Please see our website www.keele.ac.uk/undergraduate/ for further information.

Please note that entry requirements are subject to change and it is advisable to check our website for the most up-to-date information **BEFORE** submitting an application.

You must hold a minimum of two GCSE passes at Grade C or above in English language and Mathematics or a Science subject. Please note that all GCSEs must normally have been obtained at the time of application.

For some courses, you may require a higher grade at GCSE English and/or Mathematics, and some courses specify other additional subjects. Please see the entry requirements table below for the specific information for your chosen course combination.

If you have any queries please contact the Admissions Office for advice.

Degree Subject	Subject-Specific Requirements		Range of Offers*	Additional GCSE Requirements	Subjects not Included
	A/AS-level	International Baccalaureate Higher/ Scottish Advanced Higher Level			
Accounting	AS-level Mathematics at Grade C or above	Mathematics	ABB	Mathematics or Science Grade B or above	General Studies Critical Thinking
Accounting and Finance	AS-level Mathematics at Grade C or above	Mathematics	ABB	Mathematics or Science Grade B or above	General Studies Critical Thinking
Actuarial Science	A-level Mathematics at Grade A	Mathematics	AAB	Mathematics Grade B or above	General Studies Critical Thinking
American Studies			BBB		
Applied Environmental Science	A/AS-level Biology, Chemistry, Environmental Science, Geography, Geology or Physics	Biology, Chemistry, Geography, Geology or Physics	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Applied Psychology			BBC	Mathematics Grade C or above	General Studies Critical Thinking
Astrophysics	A-level Physics at Grade B or above or A-level Mathematics at Grade B or above and AS-level Physics at C or above	Physics	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Biochemistry	A or AS-level Chemistry at Grade C or above and at least one Science Grade B at A2 level (which could include Chemistry)	Chemistry	BBC	Mathematics Grade C or above	General Studies Critical Thinking

Degree Subject	Subject-Specific Requirements		Range of Offers*	Additional GCSE Requirements	Subjects not Included
	A/AS-level	International Baccalaureate Higher/ Scottish Advanced Higher Level			
Biology	A-level Biology, Chemistry, Geology, Physics or Human Biology at Grade B or above	Biology, Chemistry, Geology, Physics or Human Biology	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Biomedical Science	A or AS-level Chemistry at Grade C or above and at least one Science Grade B at A2 level (which could include Chemistry)	Chemistry	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Business Economics	AS-level Mathematics at Grade C or above	Mathematics	AAB	Mathematics or Science Grade B or above	General Studies Critical Thinking
Business Management			ABB	Mathematics or Science Grade B or above	General Studies Critical Thinking
Chemistry	A-level Chemistry at Grade B or above	Chemistry	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Computer Science			BBC	Mathematics Grade C or above	General Studies Critical Thinking
Creative Computing			BBC	Mathematics Grade C or above	General Studies Critical Thinking
Criminology			BBC		General Studies Critical Thinking
Economics	AS-level Mathematics at Grade C or above		ABB	Mathematics or Science Grade B or above	General Studies Critical Thinking
Educational Studies			BBC		
English	A-level or AS-level in either English Language, English Literature or A-level English Language and Literature combined or AQA Drama and Theatre Studies	English	BBB		
English and American Literatures	A-level or AS-level in either English Language, English Literature or A-level English Language and Literature combined or AQA Drama and Theatre Studies	English	BBB		

English with Creative Writing ABB

Degree Subject	Subject-Specific Requirements		Range of Offers*	Additional GCSE Requirements	Subjects not Included
	A/AS-level	International Baccalaureate Higher/ Scottish Advanced Higher Level			
Environment and Sustainability	A/AS-level Biology, Chemistry, Environmental Science, Geography, Geology or Physics	Science required if not offered at GCSE	BBC	Mathematics and Science at Grade C or above	General Studies Critical Thinking
Film Studies			BBB		
Finance	AS-level Mathematics at Grade C or above		ABB	Mathematics or Science Grade B or above	General Studies Critical Thinking
Forensic Science	A-level Chemistry at B or above or AS level Chemistry with either Biology or Physics A-level	IB – Chemistry at Higher or Chemistry at Standard plus Biology or Physics at Higher	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Geography	A-level Geography (or related discipline) at Grade B or above	Geography or related discipline (e.g. Geology)	BBC		General Studies Critical Thinking
Geology	A/AS-level Biology, Chemistry, Environmental Science, Geography, Geology or Geophysics	Geography, Geology, Biology, Chemistry or Physics	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Geoscience	A/AS-level Biology, Chemistry, Environmental Science, Geography, Geology or Physics	Geography, Geology, Biology, Chemistry or Physics	BBC	Mathematics Grade C or above	General Studies Critical Thinking
History			BBB		
Human Biology	A-level Biology, Chemistry, Geology, Physics or Human Biology at Grade B or above	Biology, Chemistry, Geology, Physics or Human Biology	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Human Geography	A-level Geography (or related discipline) at Grade B or above	Geography or related discipline (e.g. Geology)	BBC		General Studies Critical Thinking
Human Resource Management			ABB	Mathematics and Science at Grade B or above	General Studies Critical Thinking
Information Systems			BBC	Mathematics Grade C or above	General Studies Critical Thinking
Information Technology Management for Business			BBC	Mathematics Grade C or above	General Studies Critical Thinking

History (Single Honours) ABB

Degree Subject	Subject-Specific Requirements		Range of Offers*	Additional GCSE Requirements	Subjects not Included
	A/AS-level	International Baccalaureate Higher/ Scottish Advanced Higher Level			
International Business			ABB	Mathematics or Science Grade B or above	General Studies Critical Thinking
International Relations			BBB		General Studies
Law (Single Honours)			AAB	Mathematics Grade C or above	
Law (Dual Honours)			ABB	Mathematics Grade C or above	
Law (Major/Minor)			AAB	Mathematics Grade C or above	
Management	A-level Mathematics (for Accounting pathway)	Mathematics (for Accounting pathway)	ABB	Mathematics or Science Grade B or above	General Studies Critical Thinking
Marketing			ABB	Mathematics or Science Grade B or above	General Studies Critical Thinking
Mathematics (Single Honours)	A-level in Mathematics subject at Grade A	Mathematics (in International Baccalaureate at Higher level)	ABC	Mathematics Grade C or above	General Studies
Mathematics (Dual Honours)	A-level in Mathematics subject at Grade B or above	Mathematics (in International Baccalaureate at Higher level)	BBC	Mathematics Grade C or above	Critical Thinking
Media, Communications and Culture			BBC		
Medicinal Chemistry	A-level Chemistry at Grade B or above	Chemistry	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Medicine	3 A-levels including Chemistry or Biology, plus one subject from Chemistry, Biology, Physics or Mathematics. If Chemistry is not taken at A-level, it must be offered at AS level, Grade B minimum.	IB – 34 points to include Chemistry or Biology, plus one from Chemistry, Biology, Physics or Mathematics at higher level. 3 Grade 6 passes at higher level and Grades 6, 5, 5 at subsidiary level are normally required.	Grades of A*AB/AAA required.		General Studies Critical Thinking

Degree Subject	Subject-Specific Requirements		Range of Offers*	Additional GCSE Requirements	Subjects not Included
	A/AS-level	International Baccalaureate Higher/ Scottish Advanced Higher Level			
Midwifery			A minimum tariff score of 180 points comprising of at least a B or C at A-level or equivalent		General Studies Critical Thinking
Music (Dual and Single Honours) [†]	A-level Music and Associated Board Grade VII practical or equivalent	Music and Associated Board Grade VII practical or equivalent	BCC		
Music Technology (Single Honours) [■]	Associated Board Grade V Theory or equivalent	Associated Board Grade V Theory or equivalent	BCC		
Music Technology (Dual Honours) [■]			BCC		
Neuroscience	A/AS-level in one Science subject	Science	BBC	Mathematics Grade C or above	
Nursing	See page 217 for entry requirements				
Operating Department Practice	See page 224 for entry requirements				General Studies Critical Thinking
Pharmacy	A-level Chemistry or Biology	Chemistry or Biology	ABB	Maths and English Grade B or above	General Studies Critical Thinking Please see other subject exclusions on the School of Pharmacy website.
Philosophy			BBB		General Studies
Physical Geography	A-level Geography (or related discipline) at Grade B or above	Geography, or related discipline (e.g. Geology)	BBC	Mathematics Grade C or above	General Studies Critical Thinking
Physics	A-level Physics at Grade B or above or A-level Mathematics at Grade B or above and AS-level Physics at C or above	Physics	BBC	Mathematics Grade C or above	General Studies Critical Thinking

Degree Subject	Subject-Specific Requirements		Range of Offers*	Additional GCSE Requirements	Subjects not Included
	A/AS-level	International Baccalaureate Higher/ Scottish Advanced Higher Level			
Physiotherapy	A-level Biology, Human Biology or Physical Education	Biology	Six GCSE (or equivalent) subjects taken at one sitting at Grade C or above including Mathematics, English Language, Combined or Single Science subjects		
Politics			BBB		General Studies
Psychology			BBC	Mathematics Grade C or above	General Studies Critical Thinking
Smart Systems			BBC	Mathematics Grade C or above	General Studies Critical Thinking
Social Work			BBC	Mathematics Grade C or above	General Studies Critical Thinking
Sociology			BBC		General Studies Critical Thinking

* Any offer made will depend on the exact combination of subjects applied for in the Dual Honours scheme, and the level of competition for both courses.

Please note that Music requirements may also be fulfilled by the following:

[†] Including BC with additional AS-levels; applicants must have Associate Board grade VII practical or equivalent (Trinity, Guildhall, RockschooL or London College of Music, etc) and would normally be expected to offer Music at A/AS-level

[‡] Applicants not offering A/AS-level Music but offering grade VII practical will be referred to the Admissions Tutor for further consideration. Mature applicants with non-traditional qualifications that cannot be readily equated to A-levels, but

who do offer grade VII practical or equivalent will also be referred to the Admissions Tutor with a view to possible interview. Standard BTEC requirement is DMM.

■ Including BC with additional AS-levels. Standard BTEC requirement is DDM.

■ Consideration will be given to applications from candidates with non-traditional qualifications; mature, Access, those with professional experience, etc. Candidates in these categories may be called for interview. For details contact the Music Admissions Officer (music@mus.keele.ac.uk).

Those taking the Irish Leaving Certificate should contact the Admissions Office.

International students

How to apply

All applicants for 2013 must apply online at www.ucas.com

You can apply for entry in Autumn 2013 from 1 September 2012. The normal closing date for the receipt of applications is 15 January 2013, but if you are applying for Medicine you must do so by 15 October 2012. However, for students of any nationality applying from a non-EU country, UCAS will accept and process their applications and forward copies to the universities and colleges chosen at any time between 1 September 2012 and 30 June 2013. Please note that most applicants apply well before 30 June and, to be sure that a place is available on a chosen course, candidates should not delay applying until then.

The UCAS website (www.ucas.com) provides detailed guidance on how to complete the application form. You can also contact your local British Council office for advice or write to Keele International – international@mac.keele.ac.uk

The institution code for Keele is K12, and this should be entered clearly on the application form. The codes for courses at Keele are given under each subject entry of this prospectus, on the UCAS website and in the UCAS directory. Please take care to enter the course code correctly, since errors can lead to delays in considering applications.

The UCAS application form allows up to five choices of university and/or course. International students who wish to make only a single choice should also complete the normal UCAS form, using only one choice in Section 3. If you wish to apply only to Keele University you

should contact the Admissions team in Keele International before submitting your application form.

Accommodation

The University provides accommodation for all single students paying overseas fees for the duration of their full-time studies and who apply for their accommodation by the specified date. Please note, however, that rooms may not be available for very late applicants and in this case you may have to find accommodation off campus. Further details will be sent to all students who apply to Keele.

The University has five Halls of Residence with over 3,200 bedrooms available. You will be offered a choice of letting periods and type of room facilities depending on availability. All Halls of Residence are within easy walking distance of the centre of campus. All University accommodation is offered on a self-catering basis, to give you the maximum flexibility to choose what, when and where you eat. Details about the Halls of Residence are given on page 20 or visit our website at www.keele.ac.uk/studyatkeele/accommodation/

International students wanting to live with family, or friends wishing to live together are strongly advised to arrive at least a week in advance of their course start date, allowing time to look for suitable accommodation. The Student Accommodation Office can normally provide temporary accommodation on campus before the start of the semester only. They can also provide a list of accommodation available in the locality. This information is also available via www.keelestudentpad.co.uk

It is strongly advised that families are not brought to Keele before suitable accommodation has been obtained.

Please note that we are not able to offer homestay arrangements.

Support

Keele has an International Student Support Service which can advise and support international students with any pre-arrival issues, for example, questions about accommodation, immigration/visas and how to prepare to come to the UK, many of which are answered on the website at www.keele.ac.uk/international/

International Student Support

Student Support and Development Services
Keele University
Staffordshire ST5 5BG

T. **+44 (0)1782 733801**

F. **+44 (0)1782 734285**

E. iss@acad.keele.ac.uk

Mentor scheme

This scheme links newly arrived international students with experienced students who help with settling in. They will help students find their way around and guide them through the Keele system. This popular scheme has helped many international students to settle and enjoy their time in the UK. Application forms are available online www.keele.ac.uk/iss/



English Language

All overseas applicants, including those coming on short-term study abroad, must have, or be about to achieve, an appropriate level of English language. If your first language is not English, you will be asked to provide proof of a recognised English language qualification.

Students must take one of the internationally recognised examinations such as academic IELTS, TOEFL or Pearson Test.

For comparison to other English language qualifications, please see www.keele.ac.uk/international/

If your level of English is lower than shown in this table, Keele can offer places on an English Language summer school prior to the start of your degree course. The summer school programme is designed to bring your English Language ability to the required level. These summer schools are offered at Keele for 6 and 12 weeks prior to the start of the semester in September 2013.

	IELTS
International Degree Programme	5.5 (with a minimum of 5.5 in each subtest)
Three-year degree or short-term study abroad	6.0 (with a minimum of 5.5 in each subtest)
Law	6.5 (with a minimum of 5.5 in each subtest)
Direct entry to Year 2	6.0 (with a minimum of 6.0 in reading and writing subtest, 5.5 in speaking and listening)
Direct entry to Year 3	6.5 (with a minimum of 6.0 in each subtest)
Medicine, Pharmacy and Physiotherapy, Nursing and Midwifery	7.0 (with a minimum of 6.5 in each subtest)

Pre-sessional English course

Our pre-sessional English language courses provide an excellent opportunity for students to strengthen their academic English skills and their fluency in English whilst becoming familiar with Keele University, our facilities, staff and community, as well as many aspects of life in Britain, including our customs, culture, food and weather.

Attending a pre-sessional course will provide a valuable 'head start' to achieving academic success. Many students who have met the English language requirements for their Keele course nonetheless choose to take a summer English course as they know this will really help them prepare for their studies.

We offer a 6-week and a 12-week pre-sessional English course, and your current level of English will determine which, if any, of these courses you are required to complete. We will send you

an application form for any relevant course when we make you an offer of a place at Keele. If you enrol on the pre-sessional course and have fulfilled your other academic requirements, you will be given an unconditional offer of a place at Keele, including the pre-sessional course. This means that you can apply for one visa to cover your entire study time at Keele. However, this could be withdrawn if you fail to make satisfactory progress.

Subject entrance requirements

You are also required to meet the University's general entrance requirements and then the relevant degree course requirements. The latter will vary according to the subjects you wish to study.

Keele accepts most final secondary school qualifications from most countries for entry; in some cases we will recommend that students take the International Degree Programme. We are very happy to give advice on the acceptability of a student's current qualifications.

For further information, please contact.

Sue Would

Keele International:
Admissions Keele University
Staffordshire ST5 5BG

T. **+44 (0)1782 733501**

E. **international@mac.keele.ac.uk**

A list of accepted qualifications is available on the Keele University website at www.keele.ac.uk/international/

English Language Unit (ELU)

For English Language requirements, please see page 295.

The English Language Unit (ELU) provides credit-bearing modules, facilities and services to help international and non-native English speaking students get the most out of their academic studies at Keele. In addition to semester modules on English for academic study, the ELU offers one-to-one tutorials for individual help and advice. The ELU's web-based Noticeboard contains a regularly updated wealth of resources and links for extra practice and guidance. Reference and self-study books and resources are available to borrow from the ELU's resource library.

During the Induction Week, all incoming international and non-native English speaking students, regardless of IELTS (International English Language Testing System) or language qualification, will be given an introduction to the ELU and a brief language assessment. This assessment will help Keele determine what forms of language support, if any, would best assist you in succeeding in your undergraduate course.

For further information, please contact.

English Language Unit

Keele University
Staffordshire ST5 5BG

T. **+44 (0)1782 734237**

E. **eludadmin@keele.ac.uk**

W. **www.keele.ac.uk/llu/englishlanguage/**

Tuition fees

The fees for undergraduate degree courses are fixed for the duration of the course and the amount payable per year is also fixed, as shown in this table. You can pay the annual fee in two instalments.

Fees for courses starting in September 2012 are given in the table to give an example of costs. Fees for 2013 will be available on our website.

Degree course	Fee payable per year of course (2012 fees shown)
International Degree Programme	£8,700 for Foundation Year then fee according to degree course
International Foundation Year	£8,700 one year programme
Accelerated International Foundation Year	£5,400 followed by a discount of £1,800 for the following years of an honours degree programme for students who progress to Keele after the AIFY
Combination of subjects in social sciences and humanities (and including Mathematics)	£10,200
Combination of subjects which include one laboratory science	£11,250
Combination of two laboratory science subjects and Single Honours science	£12,100
Pharmacy (four-year degree)	£12,250
Physiotherapy	£11,595
Medicine MBChB five-year course	£20,000
Medicine – direct entry to clinical study only (third to fifth year)	£23,500

Cost of living

Estimated cost of living	£ per week
Accommodation (self-catering single-study bedroom on campus – price depends on other facilities e.g. en suite or shared bathroom)	£68-£115
Food	£35
Personal expenses (including laundry, toiletries, clothes, entertainment)	£55
Travel	£16
Total	£174-£221

You must ensure that you have sufficient funds to cover both your tuition fees and maintenance costs. Please note that tuition and accommodation fees are usually subject to a small annual increase.

Living costs will be largely dependent on your own lifestyle. However, the table on the previous page gives a good indication of the amount of funds likely to be needed when studying at Keele.

You will also need approximately £250 for books. Those not familiar with colder climates should allow for an additional amount in the first year to buy warm clothing.

Scholarships

A limited number of scholarships are available for well-qualified students.

For further details please see www.keele.ac.uk/scholarships/

International Degree Programme

Please see page 279 for more details.

The International Degree Programme is a four-year programme in which students take an initial Foundation or bridging year of study and then progress to a three-year Bachelor degree. This is designed for overseas students whose qualifications are not the equivalent of A-levels.

To apply, you should use UCAS code relating to the Foundation Year course you wish to apply for. See pages 267-280. You must have one of the following English Language results as a minimum: IELTS 5.5 (with at least 5.5 in each sub-test).

European Union (EU) students

Applications for full-time degree courses should be made through the UCAS system.

A range of qualifications is accepted, including the German Abitur and French and European Baccalaureates. Please write with specific queries on qualifications to the Admissions Office.

International agents

Keele works with a number of international recruitment agents across the world. You do not have to make an application through these, but you may find them useful sources of information and advice.

For a list of current agents go to www.keele.ac.uk/international/

Short-term study abroad opportunities

We accept an increasing number of international students, for example from Japan, France, Sweden, Germany, Korea and China, who come to Keele either for the whole year or for one semester, outside formal exchange arrangements. Courses at Keele are chosen from the normal undergraduate programme, in consultation with the Schools involved, with an academic tutor and with the student's home institution.

As the Keele structure of courses is so flexible, you can choose to follow either a broad range of studies or to specialise in particular areas of interest. A regularly updated list of modules is available on the Keele website at www.keele.ac.uk/recordsandexams/az/

You will be required to pay tuition fees on arrival for this programme unless separate arrangements have been made with your home institution.

For further details, please contact.

Keele International: Study Abroad

Keele University
Staffordshire ST5 5BG

T. **+44 (0)1782 733048**

E. keeleinternational@mac.keele.ac.uk

W. www.keele.ac.uk/studyabroad/

(For this scheme, do not apply through UCAS, but use the links on the website listed above.)

Further information

If you have any additional questions, please contact.

Ms Gill Coleman

International Recruitment Manager

Keele International
Keele University
Staffordshire ST5 5BG

T. **+44 (0)1782 734345**

E. international@mac.keele.ac.uk

W. www.keele.ac.uk/international/

Further information and advice about Keele may also be found at your local British Council library, or by visiting the British Council website at www.britishcouncil.org

Disabled students

If you have a disability and are thinking of applying to Keele, you should contact us as soon as possible so that we can arrange any support required.

We can arrange a visit to the University to assess any specific needs and to show you the accommodation available. You can also discuss other personal and academic support needs with one of our disability advisors.

If you have a physical and/or sensory disability or have severe mental health issues, or are on the autistic spectrum, you are guaranteed a room on campus for the entire period of your course where your application has been supported by the University's Disability Services. There are specially adapted ground-floor rooms and kitchens for those who need them.

As an Access Centre, we can also arrange a Disabled Students' Allowance (DSA) assessment. The Access Centre can be contacted through Disability Services at Student Services.

Depending on your needs and funding, the Service has many resources available, including:

- Advice on Disabled Students' Allowance applications
- Dyslexia screening, diagnostic assessment and tuition
- Specialised equipment and software, including SUPERNOVA and JAWS and a dedicated work station in the library

- Examination arrangements and identification stickers for assessed work

There is also a wide range of support that may be available.

For more information, please contact.

E. dds@acad.keele.ac.uk

T. **01782 734105**

W. www.keele.ac.uk/studentssupport/



Semester dates

Academic year

The academic year is organised into two semesters of approximately 15 weeks each; 12 weeks are for teaching and three weeks for assessment. There are breaks of three weeks at Christmas and four weeks at Easter.

Change of course

First year students who wish to change their Principal subject(s) may apply to transfer within the first four weeks of the Autumn Semester. There is no guarantee that a change will be allowed; each request will be considered on the basis of your academic qualifications and the availability of places on the relevant courses.

Dates of sessions

	2013-14	2014-15
Autumn Semester	Monday 30 September 2013 to Friday 17 January 2014 inclusive	Monday 29 September 2014 to Friday 23 January 2015 inclusive
Christmas Vacation	Saturday 21 December 2013 to Sunday 12 January 2014 inclusive	Saturday 20 December 2014 to Sunday 11 January 2015 inclusive
Spring Semester	Monday 27 January 2014 to Friday 13 June 2014 inclusive	Monday 26 January 2015 to Friday 12 June 2015 inclusive
Easter Vacation	Saturday 5 April 2014 to Sunday 4 May 2014 inclusive	Friday 3 April 2015 to Sunday 3 May 2015 inclusive

These dates are correct at the time of going to press. The University reserves the right to review and alter these dates. Please see our website for up-to-date information: www.keele.ac.uk/keydates/

Teaching and assessment

Teaching and assessment methods are described under each subject section and more information can be found at www.keele.ac.uk/undergraduate/

Degrees awarded

Degrees are awarded in the following classes: First Class Honours; Second Class Honours Division I; Second Class Honours Division II; Third Class Honours; and Pass. All assessment, except that in the first year, will contribute to the final degree classification, with greater weight being given to final year modules.

Students are candidates for the degree of Bachelor of Arts (with Honours)

(BA Hons) if their two principal courses are in humanities and/or social sciences subjects. All students who study at least one science subject are candidates for the degree of Bachelor of Science (with Honours) (BSc Hons). There are some four-year Single Honours science degrees including MPharm and MGeoscience.

Accommodation

We will do our best to place all new students on campus although this will depend on the availability of rooms and the number of applications for places. More details are available at the Visit Days for applicants to Keele in February and March each year. If we cannot offer on-campus accommodation then our Student Accommodation team will help you find suitable accommodation locally. Details of private rented accommodation in the locality can be found on www.keelestudentpad.co.uk We also provide a useful guide on living off campus – advice and top tips on what to look for.

Keele has five Halls of Residence on campus, which are all within walking distance of the academic Schools and campus facilities. The Halls vary in location and style, with a range of prices and facilities, including bars, common rooms, launderettes and bicycle stores.

Each hall elects a council through which students can raise issues relating to accommodation (currently under review). Each council also organises a range of social events including party nights, films, quiz nights and sports events. Each Hall has a team of resident tutors, who are managed and supported by the residential managers. They look after the wellbeing and welfare of students in their Hall.

Halls of Residence

Barnes

- Near main campus entrance and the Sports Centre
- Single-study bedrooms, with washbasins and en suite rooms grouped in flats or traditional student accommodation blocks

- Alcohol-free social space – The Sty Common Room with rooms for socialising and group study and a BBQ area
- Pig and Rat Student Bar with TV and pool table
- Launderette

Lindsay

- On the south of the campus with views across the countryside
- Single-study bedrooms – standard with washbasin and en suite, grouped in traditional student accommodation blocks, premier en suite rooms in Lindsay Court
- Lindsay's bar with TV, pool tables and BBQ area
- Small grocery shop, launderette and bicycle stores
- Alcohol-free social space – The Hexagon Common Room with rooms for socialising and group study

Horwood

- Located close to the health centre and Keele Hall grounds
- Single-study bedrooms – standard room and rooms with washbasins. Where most of the postgraduate students live
- Alcohol-free social space – The Hubble Common Room, with rooms for socialising and group study
- Horwood Bar with TV and pool table and the Keele Postgrad Association Clubhouse
- Launderette, BBQ area and bicycle stores

Hawthorns

- Located in the village of Keele with views towards Wales
- Single-study bedrooms with washbasins in traditional student blocks and rooms in flats

- Small grocery shop, launderette, BBQ area and bicycle stores
- Near the village pub 'The Sneyd Arms'
- Alcohol-free social space – The Pod Common Room, with rooms for socialising and group study
- Templar Bar with TV and pool tables

Holly Cross and The Oaks

- On the western edge of the campus
- All rooms are premier en suite
- Launderette, BBQ area and bicycle stores
- The Cross Common Room, with rooms for socialising and group study

For more information see www.keele.ac.uk/studyatkeele/accommodation/

Shared kitchen facilities

Including cookers, fridges, freezers and microwaves; the number of students sharing each kitchen will vary.

Telephones

Almost all student rooms are fitted with telephones. There is no connection or rental charge. Calls to other campus telephone numbers are free, while external calls generally cost less than the standard BT payphone charges.

HallsNet

Almost all student rooms in Halls of Residence have network sockets that give access to local networked resources and to the internet from a student's own PC (see page 26).

Types of accommodation

Traditional Student Accommodation Blocks – these blocks have communal kitchens and bathrooms (the number sharing are variable). Some rooms have their own washbasin or shower room.

Flats – four to eight students share a communal kitchen/diner, bathroom. Some rooms have their own shower room.

Houses – four to eight students share a communal kitchen/diner, bathroom. Some rooms have washbasins. There is often a small garden.

Premier en suite rooms: four-foot wide beds; individual shower rooms with kitchen/diners shared between eight students.

All student accommodation is 'No Smoking'.

First year students

First year students are usually allocated single-study bedrooms. These have a bed, wardrobe, bookshelves, desk, chair and drawer space. In order to provide accommodation for as many students as possible, a number of rooms are set aside each year for two students to share on a temporary basis.

All other years

After the first year, students who require campus accommodation for supported medical/disability reasons, and those students who do not have a

family home in the UK, will be given the highest priority. A proportion of third year students are accommodated on campus.

All other students should be prepared to look for accommodation in the local area. A comprehensive guide to looking for accommodation off campus is available from the Student Accommodation Office along with a website providing information on properties owned by landlords that are accredited to the University. There is also an annual housing fair with advice on moving off campus and an opportunity to meet landlords.

For more information see www.keele.ac.uk/studyatkeele/accommodation/

What you need to bring

In each Hall of Residence, the kitchens are equipped for self-catering, although you will need to provide crockery, cutlery and cooking utensils. You will also have to bring your own bedding and towels.

Applying for accommodation

If you are holding Keele as your firm choice we will send you an 'Application for residence' form in June 2013. You will be offered the chance to indicate your preferred choice of accommodation: The Student Accommodation will take your preference into account as far

as possible but please note that we cannot guarantee to allocate your first choice. Those with a disability or health issue that means particular facilities are required should indicate this on their 'Application for residence' form.

We will advise you of your room allocation when you have confirmed (through UCAS) that you are accepting a place at Keele – this will usually be in late August/early September after A-level and other examination results have been announced.

Exchange, study abroad and ERASMUS students will receive information about accommodation once they have been accepted at Keele, but provision is made for those students only staying for one semester.

What it costs

This table gives details on how the accommodation charges are based on the occupancy period and facilities provided (figures for 2011/12). Heating, hot water and cleaning are included for single-study bedrooms. Prices given are per week (pw).

Private accommodation

The Student Accommodation Office offer information on private flats, houses and lodgings available in the local area. Rents will vary depending on the facilities available, but typical costs for 2011/12 are £55-£65 per week with utility bills on top. Information on

Room type	33 weeks (excludes Easter Vacation)	37 weeks	42 weeks (for finalists staying until graduation)
Without washbasin	–	£68 pw	–
With washbasin	£79 pw	£79 pw	–
En suite	£109 pw	£109 pw	–
Premier en suite	£115 pw	–	–

availability can be found at: www.keelestudentpad.co.uk

Further information on student accommodation is available from **The Student Accommodation Office**

E. accomenq@kfm.keele.ac.uk

Transport to campus

A regular bus service operates between the campus and Hanley, via Newcastle-under-Lyme and/or Stoke-on-Trent. Currently, the cost of a trip to Newcastle-under-Lyme or Hanley is £1.65. First (the local bus company) offer a range of money-saving travel deals including a 'Firstweek' travelcard for £16.00 for University students

giving unlimited travel in The Potteries area for one week. The depot at Hanley is also the base for National Express services.

Taxi fares will depend on the firm used but are approximately £4.50 into Newcastle-under-Lyme, £7-£7.50 to Hanley and £7-£7.50 to Stoke-on-Trent railway station.

Cars on campus

The University reserves the right to restrict the number of vehicles on campus. The University car parking and transport policy currently only allows first and second year students to park on campus if they live off campus; special arrangements can be made for disabled students who need a car to

maintain mobility. The policy may vary from year to year and full information is given at Open and Visit Days and on the University website.



Travel directions

By car

From the North

Leave the M6 motorway at Junction 16, signed A500/Alton Towers. At the motorway roundabout turn right onto the A500 for Crewe and Nantwich. The University is signed from here. At the next roundabout, go straight on the A500 (A531) and at the next one turn left onto the A531 (A525) for Keele. After approximately 7 miles, turn right at the roundabout onto campus. From the motorway junction to Keele the journey time is about 20-25 minutes.

From the South

Leave the M6 at Junction 15 and follow the signs for the A519 into Newcastle-under-Lyme. The University is signed from the first roundabout. Two miles out of Newcastle, turn left at the roundabout onto campus. From the motorway junction to Keele, the journey time is about 15-20 minutes.

From the East

If you are travelling on the A53 follow signs to Newcastle-under-Lyme. If you are using the A50, join the A500 and then turn off on the A53 to Newcastle. Travel from the M1 is easiest using the new Junction 23A onto the Derby bypass and following signs for the A50

From the West

Follow signs for the A525.

By rail

The nearest railway stations are Stoke-on-Trent (5 miles) and Crewe (14 miles).

Taxis

There is a taxi rank outside each station and typically the journey takes 15-20 minutes from Stoke-on-Trent railway station and 20-25 minutes from Crewe railway station.

Buses

From Stoke-on-Trent bus station, First buses (No. 25 service) leave stop F which is on the other side of the road, to the left of the station entrance, every 15 minutes (weekday, during the day) and every 20-30 minutes at weekends. Journeys take about 32 minutes to get to the University. The service stops in Newcastle-under-Lyme and a number of places on campus, including Keele village.

Other services may be offered; details are available on the University website.

From Crewe bus station, Arriva buses to Newcastle-under-Lyme (No. 85 service) leave from the stop to the right of the station entrance towards the roundabout.

The service leaves at 5 minutes past the hour (Monday to Saturday), taking about 50 minutes, and stops in Keele village or Barnes Hall.

By air

Gatwick

If travelling by train go from Gatwick to Victoria Station, London and via the underground link, to Euston. From here catch a train to Stoke-on-Trent.

If travelling by coach, there is a National Express coach service from Gatwick to

Stoke-on-Trent (Hanley bus station). There are numerous services daily but all require a change of coach. The journey takes approximately 6-7 hours.

Heathrow

The easiest journey is to use the Airbus service from the airport to Euston railway station. From here take a train for Manchester Piccadilly that will stop at Stoke-on-Trent. There is also a National Express coach service from the Central bus station at Heathrow directly to Stoke-on-Trent (Hanley bus station).

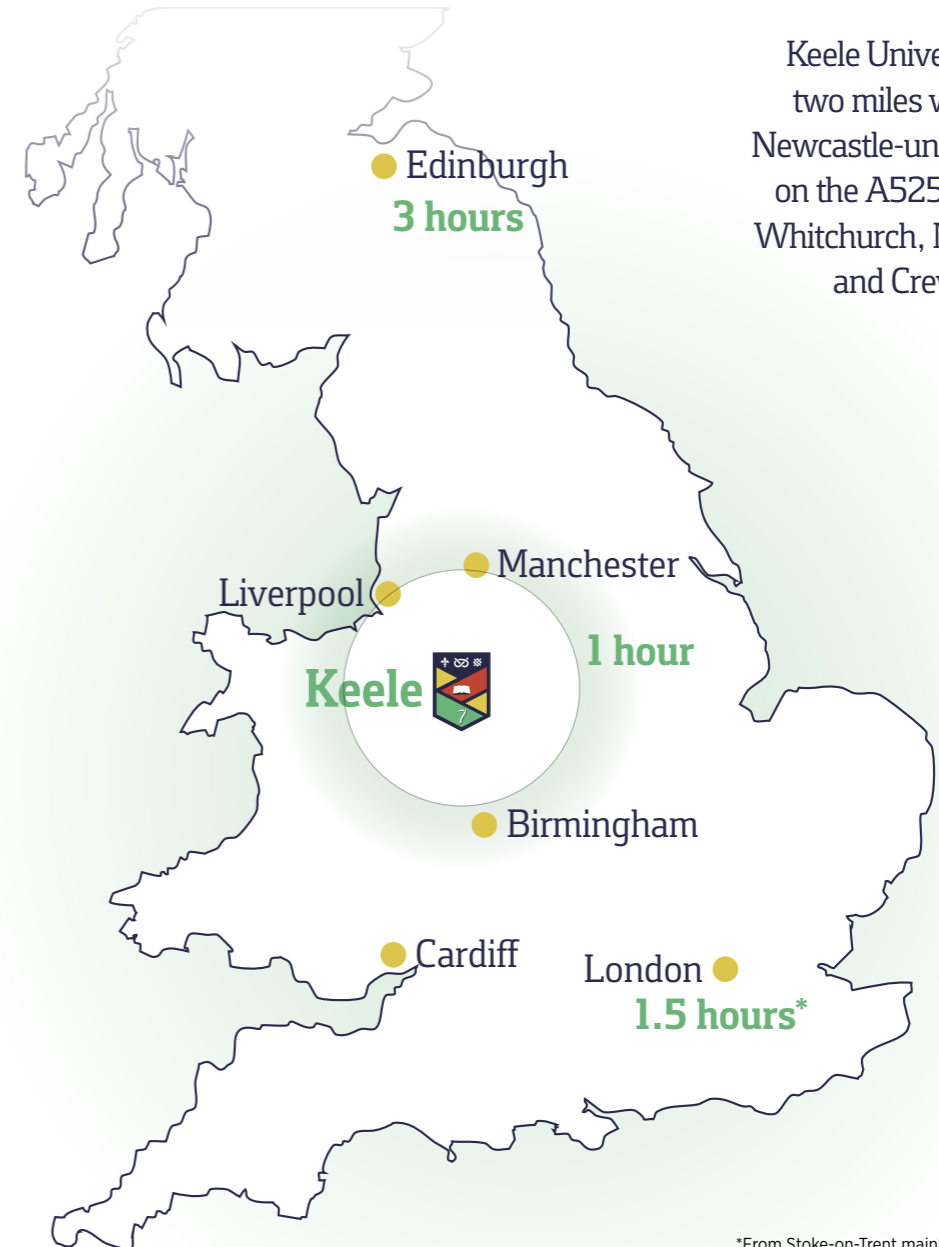
Manchester

There are frequent trains from the airport to Manchester Piccadilly station where there is a regular service to Stoke-on-Trent railway station. Alternatively, National Express operates a direct service to Stoke-on-Trent (Hanley bus station) eight times a day.

Birmingham

There is a SkyTrain service from Birmingham Airport to Birmingham International. From here, trains to Stoke-on-Trent run regularly, about twice an hour. National Express run a direct coach service from the airport terminal building to Stoke-on-Trent (Hanley bus station) three times a day.

All the above details are correct at the time of publishing but transport arrangements may subsequently vary. Please check with rail and bus companies before starting your journey to Keele.



Keele University is two miles west of Newcastle-under-Lyme on the A525 road to Whitchurch, Nantwich and Crewe.

*From Stoke-on-Trent mainline railway station

Research

Keele is a research-led University, where academics in all subject areas work to develop and publish new ideas and to bring these into our undergraduate teaching.

www.keele.ac.uk/research/

In the latest UK Research Assessment Exercise, 85% of Keele's research was identified as of international standing in terms of originality, significance and rigour, with the majority of that research defined as 'internationally excellent' or 'world leading'.

At Keele, we particularly encourage interdisciplinary research that cuts across traditional subject boundaries. For instance, collaboration between Keele chemists and psychiatrists has shown that smoking increases the risk of retaining aluminium in the body, which can, in turn, lead to problems such as Alzheimer's disease.

Malaria kills a child every 30 seconds in Sub-Saharan Africa. Now that many strains of the disease are resistant to drugs, and insecticides are not guaranteed to kill mosquitoes, Keele researchers are looking at new ways of combating this killer disease, by examining the complex molecular biology involved in the infection cycle.

Keele's Research Institute for Social Sciences brings together sociologists, psychologists and specialists in ageing to look at all aspects of our learning, development and responses to problems as we go through life.

For instance, Keele academics are currently studying how children learn to play music and how they learn about the world and start to develop views.

Keele also has major research strengths in the environment, involving scientists and those working in environment and sustainability.

Environmentalists and scientists are becoming excited by solid fuel cells – these are more efficient than conventional energy sources and produce far fewer pollutants. At Keele we are working on running these cells from biogas produced from animal and vegetable waste, making an even more sustainable fuel source.

Undergraduate students at Keele will be taught by academic staff who are carrying out internationally leading research in their subject. You will take modules taught by specialists in that subject and in your final year you will undertake a project or dissertation which will allow you to work with, and be advised by, a leading researcher. Many Keele graduates stay on at Keele to take postgraduate study and research, having been inspired by the taste of research they gained as an undergraduate.

For more details of Keele's research, see www.keele.ac.uk/research/



Small print

Disclaimer

This prospectus is provided for illustration purposes only and does not constitute or form part of any invitation, offer, acceptance or contractual term between Keele University ('the University') and any other person. The University gives no warranty or representation (nor shall any be implied) that any of the courses, facilities or other matters in this prospectus are, or will be, available to any person. The University reserves the right for any reason and without notice to withdraw or change any of the programmes included in this prospectus, to alter tuition fees, entry requirements, the facilities and/or services available from or provided by or on behalf of the University. You should also note that the choice of subjects may be limited by considerations of timetable, staffing and/or available places on a course. If a course is discontinued, the University will make all reasonable efforts to find students a place on a suitable alternative course.

The University is committed to, and actively promotes, equal opportunities in all respects.

For any queries, please write to:

Director of Marketing and Communications

Keele University
Staffordshire ST5 5BG

Higher Education Statistics Agency (HESA)

In common with all universities in the UK, Keele will send some of the information we hold about our students to the Higher Education Statistics Agency (HESA). This forms your HESA record, which contains details of ethnic group and any disabilities. HESA will pass these records, or parts of them, to various government organisations that need it to carry out their statutory functions connected with funding higher education.

HESA and the organisations listed above will use the information mainly to produce statistics. Student records will not be used in a way that could affect anyone personally and the organisations will take precautions to reduce the risk of a student being identified from the information once it is published and released.

For more information about this, please contact.

HESA

95 Promenade
Cheltenham GL50 1HZ

www.hesa.ac.uk

University regulations

If you accept a place in the University, you are giving an undertaking to abide by the rules and regulations in force, both academic and disciplinary. It is your responsibility to make yourself familiar with these rules and regulations, and to understand that any breaches may lead to disciplinary action. Full details are sent to all new students and can also be viewed at.

www.keele.ac.uk/paa/governance/actcharterstatutesordinancesandregulations/

Equal Opportunities policy

Keele University has adopted an Equal Opportunities policy which states that no student will receive less favourable treatment on the grounds of race, colour, nationality, ethnic or national origins, gender, marital status, sexuality, disability, religion, political belief, socio-economic background, parental status, age or trades union membership. The University is committed to a programme of action to ensure that this policy is fully effective.

For further information on this policy please contact.

Directorate of Human Resources

Organisational Development
and Student Support

T. **01782 734403**

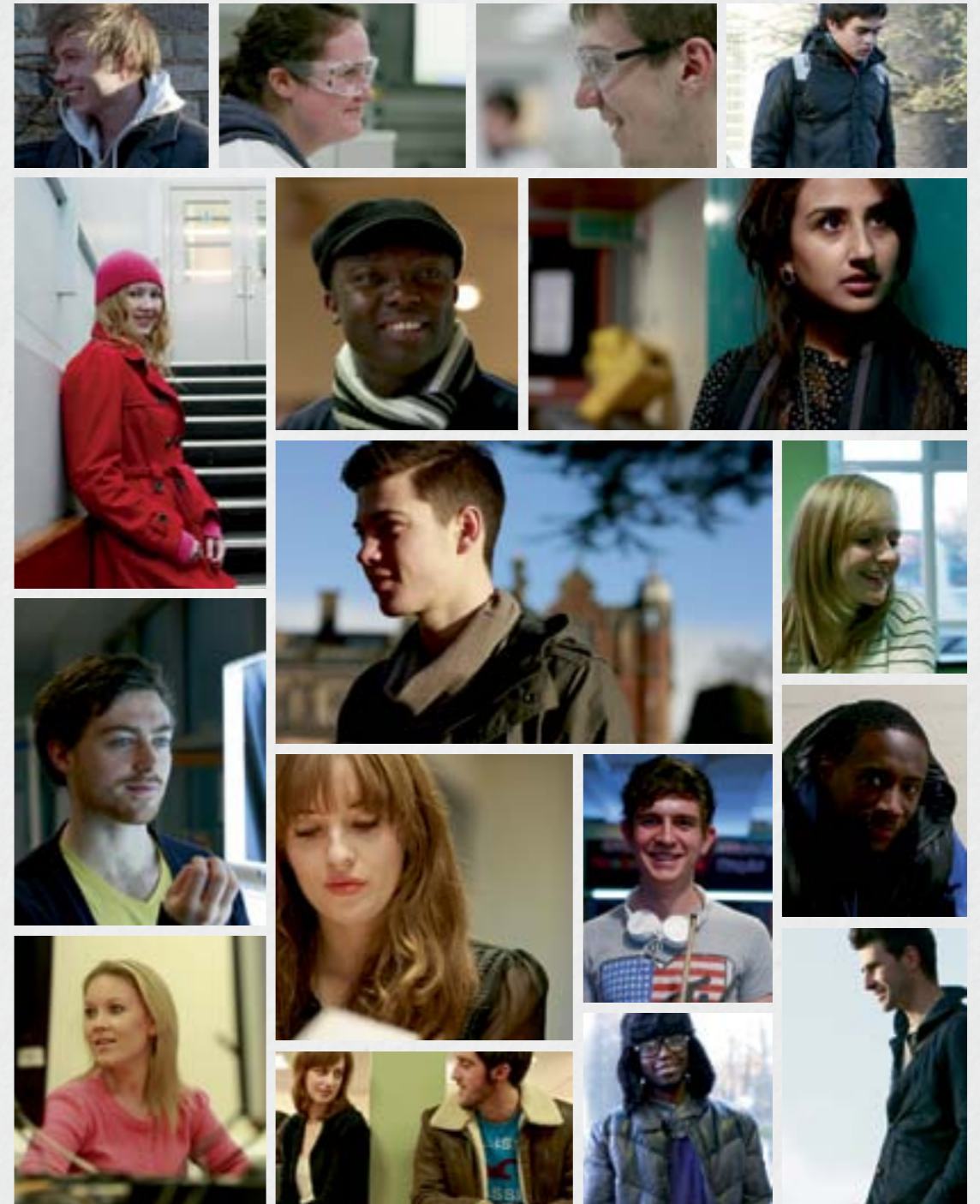
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Thank You

We'd like to say a huge thank you to all students who took part in the photoshoot for this, our 2013 prospectus. You managed to keep smiling through two bitterly cold days and, however closely we've looked, we can't see a goosebump anywhere. We're really proud of how it's turned out and we hope you are too.



UK/EU students

01782 734005/ 733994

Email: home-euadmissions@paa.keele.ac.uk

International students

+44 (0)1782 733501

Email: international@mac.keele.ac.uk

Medicine degree

01782 733937

Email: medadmissions@hfac.keele.ac.uk

Nursing and Midwifery courses

01782 679600

Email: nursing@keele.ac.uk

Disabled students

01782 734105

Email: dds@acad.keele.ac.uk

Study Abroad

01782 733048

Email: keeleinternational@keele.ac.uk

Student Finance

01782 734240/734087

Email: bursaries@keele.ac.uk

Open Days/Visit Days

01782 734009/733949

Email: visits@mac.keele.ac.uk

Accommodation

01782 733065

Email: accomenq@kfm.keele.ac.uk



Keele University, Staffordshire ST5 5BG

01782 732000

www.keele.ac.uk