Inspired in Hull...
Faculty of Science and Engineering

Postgraduate study 2015
YOUR UNIVERSITY OF HULL POSTGRADUATE FAIR

Wednesday 12 November 2014
4pm – 7pm Staff House

Come along and meet the professors and lecturers and find out more about postgraduate study at the University of Hull.

• Talk to current postgraduate students
• Tour the campus, explore the Graduate School and our newly refurbished library, which includes a designated Postgraduate Lounge
• Talk to our experts about admissions and funding

To book on to the Postgraduate Fair, please visit: www.hull.ac.uk/opendays
or email opendays@hull.ac.uk

You can also join one of our online chats by visiting www.hull.ac.uk/livechat

Admissions
For general admissions enquiries, please contact: Admissions Service, University of Hull, Hull, HU6 7RX, UK
T: +44 (0)1482 466850
E: pgstudy@hull.ac.uk
www.hull.ac.uk

Download the iHull app

hull.ombiel.co.uk/get
Science plays an important part in the life of the University. Our scientists have always enjoyed a vibrant and active research ethos, and this continues to grow and develop thanks to the enthusiasm and scholarship of our staff and students.
Welcome to the Faculty of Science and Engineering

If you are soon to graduate, or perhaps already have a degree, you are well placed for entering the graduate employment market. However, in today’s competitive world you need to stand out from the crowd and offer potential employers the specialist skills and knowledge that they need, and which differentiate you from other graduates.

Or perhaps you are thinking about a career in research and want to know what the possibilities for study are?

Whatever your reasons, undertaking a taught MSc degree with us at the University of Hull opens up many opportunities for you. You can:

- Specialise in a particular area of your subject and develop further your analytical and research skills.
- Study your chosen subject in greater depth, or enhance your knowledge by studying a complementary subject at Masters level.
- Gain a competitive advantage in seeking employment in your chosen career.

- Explore the opportunities and possibilities for further studies at MPhil or doctoral level.
- Study with like-minded individuals and become part of a network of colleagues.

Here at the University of Hull you receive a high-quality education with teaching and guidance from subject experts who are research leaders with an international reputation. We pride ourselves on the fact that our teaching is research-led, so that, whatever your chosen programme, you learn the latest developments, theories and applications in your subject, making your Masters education up-to-date and current. You become part of a network of colleagues and, in many cases, join established research groups for your Masters project or dissertation. We support you to make sure you achieve your full potential.

We have also spent more than £20 million over the past eight years on upgrading our research and teaching laboratories and investing in state-of-the-art, cutting-edge equipment and technologies so you have access to the most modern and up-to-date facilities.
Hull is a traditional, research-led university that supports a wide range of core disciplines and a network of exceptional research opportunities.

As a faculty, we understand the need for research and teaching to be commercially relevant and business oriented, and we develop and maintain close links with industry and business in all areas of science and engineering. Indeed, we have exploited some of our research and innovation and set up our own spin-out companies, as well as working in partnership with business to bring the fruits of our research into commercial realisation. You can find examples of our links with business and industry in different subjects in this brochure.

Whatever your subject, you will find studying for a Masters degree at the University of Hull is a challenging, exciting and rewarding experience. You will make life long friendships and have access to all the services offered by the University – both during your studies and then afterwards through our Alumni Office.

I hope that our portfolio of Masters degrees offers a programme of interest to you and that you make the University of Hull your first choice for postgraduate education.

I very much look forward to welcoming you!

Professor Stephen M Kelly
Professor of Organic Materials Chemistry
Dean of Science and Engineering

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Contact us

Keep updated – visit us online
www.hull.ac.uk/science

Faculty of Science and Engineering

Research labs in the Allam Building
INSPIRED IN HULL ...

University Science Festival

Over the past three years the Faculty of Science and Engineering has held a celebration of research, innovation and technology carried out in our departments. This festival is a showcase for the work of our postgraduate and project students in particular but with support and sponsorship from their departments and academic supervisors. Largely led by students, the festival is an opportunity to demonstrate their work and to gain skills in the public communication of science and technology, an increasing need in today’s modern and connected society.

In 2014 the festival took place over two days and was visited by more than 140 civic and business leaders in the region, including large corporations such as Associated British Ports, Barclays Corporate, HSBC, Hull City FC, Parsons Brinckerhoff, RB, formerly known as Reckitt Benckiser, and Vivergo. The festival was also visited by 600 children from local schools, the general public, applicants who had come to visit the University with their parents and friends, as well as staff and students of the University. Indeed, it was estimated that more than 2,000 people visited the festival and feedback was both positive and inspiring. Students and staff who participated had a most enjoyable festival where they had the opportunity to bring their interests and expertise out of their laboratories and to a wider and appreciative audience.

Postgraduate science and engineering students are encouraged to take part in this fun event which is both enriching and rewarding. By taking part, research students can also gain valuable credits towards their Postgraduate Training Certificate.

Our Science Festival is now an established feature of the academic year. Come and see what we were up to in 2014 at uniofhull.info/sciencefestival.

A new era for biomedical research and the Allam Building

In September 2012, the Allam Building opened for business. This state-of-the-art, purpose-built biomedical research institute – founded with a major donation from local businessman Dr Assem Allam and supported by significant University investment of several million pounds – brings together clinical and non-clinical biomedical scientists from across the faculty and the University. The new institute has been equipped with the latest facilities, including new radiochemical PET/SPECT scanners, and is now the home of cardiovascular and metabolic research and cancer research.

The institute enables true interdisciplinary research to take place with scientists from Chemistry, Biomedical Sciences and the Hull York Medical School working closely with clinicians and experts at local hospitals to establish a centre of research excellence. It has also enabled the faculty to develop its new MSc in Translational Oncology.
Formula Student

Science and Engineering students at the University have been at the heart of the prestigious, and Europe’s most established, motorsport competition Formula Student, to build a single-seat racing car to compete in a series of challenging events run by the Institution of Mechanical Engineers.

The competition, which aims to inspire and develop enterprising and innovative young engineers, has seen students from Hull working on and entering the competition since October 2010.

Our students have built, developed and engineered a car: the HU-Challenger Mark II. They have demonstrated entrepreneurial skill in gaining substantial sponsorship from a number of national and local companies to support and fund their entry in the competition. The racing car is now proudly displayed in the foyer of the main engineering building and is proving to be an inspirational talking point and an object of much interest to anyone who visits.

New programmes

Our 2015 taught postgraduate programme prospectus includes exciting new programmes in:

- MSc Petroleum, Oil and Gas: Chemical Engineering Technologies
- MSc Petroleum, Oil and Gas: Chemical Engineering Management
- MSc Computer Systems Engineering
- MSc Health Psychology
- MSc Psychology and Health
- MSc Translational Oncology
- MSc Cardiovascular Rehabilitation
- MSc Clinical Exercise Physiology
- MRes Environmental Change and Monitoring (in development for 2015 entry)

Over the past two years the University has invested significantly in the appointment of leading academics with strong research track records in many subject areas. This, together with multimillion-pound investment in laboratories and equipment, has enabled us to expand our portfolio of Masters degrees to include new subjects areas such as Chemical Engineering and Oncology.

We pride ourselves on our progressive and forward-looking culture. Above are just a few of the exciting new developments that have been taking place in the Faculty of Science and Engineering in recent months and we look forward to all the new and exciting opportunities and prospects ahead.

Visit our website for the latest news and information at: www.hull.ac.uk/science.
RESEARCH

Research is at the very heart of the academic endeavours of the faculty and at the core of the University’s Strategic Plan. The faculty has a proud history of achievement and reputation in ground-breaking and innovative science and, even more importantly, we embed our research in the education and training of our students, particularly in the later years of our undergraduate programmes and through our MSc degrees.

The faculty has world-class expertise in a range of areas from liquid crystals to cancer research; medical engineering to green energy; lab-on-a-chip technology to flood management. What is clear is that research is increasingly transcending disciplinary boundaries, which means researchers are working together to solve some of the challenges of the modern world in health, the environment, energy security, technology and materials.

In the past three years we have enhanced our research base through a major investment plan, in our physical environment through our infrastructure, in state-of-the-art facilities and cutting-edge equipment, and in academic staff, researchers and technical support in all our disciplines.

This investment continues into the future with more staff investment and further infrastructure enhancement planned as part of our five-year plan. In previous pages you will have read about our new biomedical research facility, the Allam Building, funded by a local businessman for cancer and cardiovascular research. We have also recently developed our new Chemical Engineering facility which houses some of the best facilities in the country.
Students who come to Hull to study for PhD, MPhil or MSc programmes by research can, therefore, expect the very best environment, access the most up-to-date facilities and equipment in their discipline, and be mentored by some of the leading scientists in their field.

To explore what opportunities are available in science, technology and engineering, please see our website at uniofhull.info/sresearch.

In addition, to get an idea of the type of research projects that are currently available we have some examples at uniofhull.info/phdres.

If you are interested in a particular area of research you can contact the relevant department or academic in your field of interest to explore what opportunities there are and submit an application.

If you are not sure of which research area you wish to study, you should contact the Director of Postgraduate Studies in the relevant department, who will be able to advise you.

The University has been making available a number of funded PhD scholarships annually in selected research areas – 20 PhD scholarships were available in the Faculty of Science and Engineering for entry in September 2014.

These scholarships are normally advertised in the autumn before the year of entry. Potential applicants are advised to check the University of Hull website for details at the appropriate time. In addition, from time to time individual scholarships are advertised throughout the year by our departments as funded projects are awarded.

If you are interested in more details or would like to make an enquiry, please email science@hull.ac.uk.
STRUCTURE OF MASTERS PROGRAMMES

To attain a taught Masters degree, you follow a taught programme of study over two 15-week semesters, followed by a research project or dissertation in the final (summer) semester.

A Masters degree is normally made up of 180 credits of assessed learning made up of the following:

- six 20-credit taught modules to make a total of 120 credits (Postgraduate Diploma)
- one 60-credit project report or dissertation (Masters)

Each credit equates to approximately 10 hours of learning.

Some Masters degrees consist of mandatory modules that must be completed. Other Masters degrees may have a combination of mandatory modules and offer some element of choice where you may choose your subject of interest. Modules may be assessed by a combination of written examinations and coursework, where coursework may include essays, presentations, practical assessments and reports, portfolios and team-based activities. Oral examinations may also form part of the assessment.

You must satisfy the assessment for the Postgraduate Diploma stage (i.e. the 120-credit taught modules of the programme of study) to be permitted to progress on to the dissertation or project of the Masters stage.

The Masters stage is normally made up of a unique project or piece of work leading to a major report or dissertation submitted at the end of the period of study.

During your induction at the University, you are allocated a personal academic supervisor, who acts as your academic mentor throughout your period of study. When you come to undertake your research project or dissertation, you may also be allocated a specialist academic supervisor to mentor you and provide expert guidance during your project studies.
BIOLOGICAL, BIOMEDICAL AND ENVIRONMENTAL SCIENCES

The School of Biological, Biomedical and Environmental Sciences
MSc in Biomedical Science
MSc in Molecular Medicine
MSc in Translational Oncology
THE SCHOOL OF BIOLOGICAL, BIOMEDICAL AND ENVIRONMENTAL SCIENCES

Our research was assessed as ‘world-leading’ and ‘internationally excellent’, with almost all research carried out in the school classified as ‘internationally recognised’, in the most recent UK-wide Research Assessment Exercise in 2008. In the light of this continued research success the University has made major investments, totalling several million pounds, with a complete refurbishment of our laboratories and the establishment of dedicated core facilities, including our recently opened new biomedical research facility, the Allam Building.

This solid reputation for high-quality research, coupled with an excellent infrastructure, means that after joining the department you become part of a vibrant, forward-thinking research community that provides an excellent academic atmosphere for your future studies on either our taught MSc or our PhD/MSc research degree programmes.

Our modern facilities include:

- Genome Analysis Suite with automated DNA sequencers, robotic station and mutation detection HPLC
- Bioinformatics Laboratory for powerful computational analysis
- Microscopy Suite with light microscopes (confocal and bright field), scanning and transmission electron microscopes and an atomic force microscope
- Chromatography Analysis Suite with GC-MS and HPLC
- NMR facilities, in collaboration with the Chemistry Department
- Clean Lab facility for the isolation and study of ancient and sensitive DNA
- Containment Laboratory (Level 3) for the culture and analysis of pathogenic micro-organisms
- Fluorescence Activated Cell Sorting and analysis facilities
- tissue-culture facilities
- plant-culture facilities, such as controlled growth chambers, and a large area of glasshouses at the University’s Botanic Garden
- extensive marine and freshwater aquaria with supporting facilities
- state-of-the-art new biomedical research laboratories
- state-of-the-art new radiochemical PET / SPECT scanner facilities
- new aquatic ecotoxicology laboratory
- new microbiology laboratory
- experienced team of technicians and laboratory supervisors to ensure that facilities, laboratories and experiments are fully supported

Our research was assessed as ‘world-leading’ and ‘internationally excellent’, with almost all of it classified as ‘internationally recognised’, in the most recent Research Assessment Exercise in 2008.
Wildlife studied on the field trips that are part of many postgraduate courses.
MSc in Biomedical Science

About the programme
This programme aims to upgrade your knowledge and skills in clinical and laboratory aspects of modern Biomedical Science. By the end of the course, you will:

- be familiar with the advanced skills required for hospital pathology services and research in pharmaceutical or academic environments
- have a better awareness of the overlap between the disciplines
- be conversant with recent developments in the field of biomedical science

Programme content
Academic staff from the department and clinical staff from local hospitals teach this programme. You are allocated a personal tutor and have contact with researchers working in the biomedical field.

There are six modules spread over two 15-week semesters. At the end of the taught element, you attain the level of Postgraduate Diploma. Successful completion of the diploma stage allows progression to the MSc stage of the programme, which comprises a research project and completion of a thesis in Semester 3.

Modules

Semester 1
A choice of two clinical modules from:
- Cellular Pathology
- Clinical Chemistry
- Haematology
- Medical Microbiology

And one molecular module from:
- Advanced Applied Molecular Biology and Regulation of Gene Expression
- Advanced Molecular and Medical Parasitology

Semester 2
- Research Skills and Case Studies (core module)

Plus a choice of two modules from:
- Advanced Infection Control
- Advanced Muscle Fitness and Failure
- Current Topics in Biology and Biomedical Science
- Introduction to Drug Discovery

Semester 3
- Research project with thesis based on the equivalent of six months of original research on an aspect of biomedical science

Assessment
Short reports, written examinations, continual assessment, practical assessments and oral presentations.

Special features
Facilities include a range of instrumentation, up-to-date equipment for genome analysis and the study of cellular processes, state-of-the-art microscopy facilities, well-equipped laboratories supported by expert technicians and computer networks.

Scholarships
International applicants are eligible for a science scholarship. See page 66.
MSc in Molecular Medicine

About the programme
This programme aims to expand your knowledge in the molecular and bioinformatics aspects of biomedicine-related sciences, including:

- knowledge of the state-of-the-art technologies applied to medically related science
- recent developments in the molecular aspects of medical research and application of these in the diagnosis of pathological conditions
- theoretical and practical knowledge of DNA technologies, databank searching and analysis in a setting relevant to medical research
- familiarisation with the molecular techniques associated with recombinant DNA and cell biology; manipulation of these techniques to interpret generated data
- theoretical and practical skills and knowledge for the purpose of academic or industrial research

Programme content
There are six modules spread over two 15-week semesters. At the end of the taught element, you attain the level of Postgraduate Diploma. Successful completion of the diploma stage allows progression to the MSc stage of the programme, which comprises a research project and completion of a thesis in Semester 3.

Modules
Semester 1
Two core modules:
- Advanced Applied Molecular Biology and Regulation of Gene Expression

Semester 2
Two core modules:
- Practical DNA Sequencing and Bioinformatics
- Research Skills in Bioscience

Plus a choice of one module from:
- Advanced Infection Control
- Advanced Muscle Fitness and Failure
- Advanced Reviews in Biology and Biomedical Science
- Introduction to Drug Discovery

Semester 3
- Research Project and Dissertation

Assessment
Written examinations, essays and short-answer papers, presentations, practical reports, computer-based workshop reports and a dissertation.

Special features
A range of instrumentation, up-to-date equipment for genome analysis and the study of cellular processes, state-of-the-art microscopy facilities, well-equipped laboratories supported by expert technicians and IT networks.

Scholarships
International applicants are eligible for a science scholarship. See page 66.
MSc in Translational Oncology

About the programme
One in three individuals will be diagnosed with cancer in their lifetime. It therefore represents a leading cause of mortality globally, which means researchers and clinicians with expertise in this area are in high demand. This MSc has been designed to help meet this demand by providing you with an in-depth knowledge and understanding of the causes and treatment of cancer from ‘bench-to-bedside’.

Designed in close collaboration with clinicians and research specialists, this programme takes a theoretical and a practical approach to provide you with the specialist knowledge and skills required to pursue an academic career in cancer research or a move into the more applied fields of cancer treatments or hospital pathology.

This MSc is studied full-time over one year, starting in September, and comprises two semesters of structured taught modules followed by an individual research project.

Programme content
Lectures, expert seminars, state-of-the-art oncology-based practicals and projects are supported by ‘problem classes’ and tutorials. Laboratory-based work is an important part of the programme, which includes an extended oncology research project carried out in the laboratory of an experienced cancer researcher. This MSc programme is designed to provide a highly supportive environment, in which teamwork, project management and communication skills are as important as technical proficiency.

Core modules
- Cellular and Molecular Biology of Cancer
- Organ-Specific Cancers: Bench-to-Bedside
- Tumour Immunology and Microenvironment
- Treatment of Cancer
- Oncology Research Skills
- Research Project and Dissertation

Optional modules
One module is also chosen from:
- Scientific and Medical Ethics / Clinical Statistics
- Cancer and Modifiable Risk Factors

Assessment
You are assessed by a variety of methods including examinations, practicals, short reports, presentations and project work.

Special features
- The programme is taught by cancer research-focused staff.
- Excellent research environment and infrastructure in the recently completed £6 million, state-of-the-art biomedical research facility in the Allam Building.
- Close collaborative links with the National Health Service, and clinical physicians and researchers who contribute to the development and delivery of the programme.
- This MSc provides the opportunity to specialise in a focused area within oncology.
Research areas

The school’s research is structured around three major themes: Biomedical Sciences; Evolutionary Biology; and Ecology and Environment. A major contributor to the Biomedical Sciences theme is the large core of cancer researchers, made up of almost 20 senior research leaders. Basic cancer biology, clinical oncology, cancer therapeutics, hypoxia and the tumour microenvironment, tumour metastasis, cancer genetics, radiobiology, tumour immunology, cancer diagnostics, energy metabolism, molecular and cancer PET imaging, cancer-related haemostasis and thrombosis, and medicinal chemistry are just some of the research specialities of our cancer research group. This group has a long-standing interest in solid tumours – focusing on head, neck, brain, colorectal, oesophageal, breast, prostate, pancreatic and lung cancer.

The group works closely with colleagues at Castle Hill Hospital, the Hull York Medical School and the Department of Chemistry, with the aim of translating laboratory research into clinical practice. The research expertise of this group feeds directly into the content and delivery of this MSc and therefore prepares you for progression on to PhD programmes, as well as for employment in a variety of public sector bodies and industry.
CHEMISTRY

The Department of Chemistry 17
MSc in Chemistry 18
MSc in Chemistry with Biological Chemistry 19
MSc in Analytical and Forensic Chemistry 20
MSc in Chemistry with Nanotechnology 21
MSc in Occupational Health, Safety and Environmental Management* 22
MSc in Occupational Health and Safety Management* 22
MSc in Environmental Management* 22

*subject to final approval
THE DEPARTMENT OF CHEMISTRY

The Department of Chemistry has carried out world-class research in many scientific areas, from drug synthesis to advanced functional materials, including liquid crystals, and from electrochemical sensors to lab-on-a-chip miniaturised reaction systems.

In the most recent national Research Assessment Exercise in 2008, 95% of outputs assessed were found to be engaged in research which was internationally recognised and 50% were rated as world-leading or internationally excellent.

The Department of Chemistry has been recognised as a Royal Society of Chemistry Landmark for its liquid crystals work, which earned it the 1977 Queen’s Award for Technological Achievement.

One of the University’s distinctive features is a strong research culture of collaboration and interdisciplinary working. In the Department of Chemistry, our researchers work together with (among others) biologists, clinicians, engineers – including chemical engineers – environmental scientists and with Hull York Medical School medics on a variety of projects and initiatives.

We have some of the best-developed research links and industrial collaborations of any chemistry department in the UK – including projects with local, regional, national and global chemical companies such as AstraZeneca, GlaxoSmithKline, Johnson-Matthey, Mitsui Chemicals Inc., Pfizer, RB, formerly known as Reckitt-Benckiser, Schlumberger and Unilever. The department’s research is also commercially exploited in terms of patents, licensing and spin-out companies such as Chemtrix, Kingston Chemicals, Polar OLED and Sporumex. The department houses the Institute for Chemistry in Industry – a research consultancy unit for local, national and global chemical industries.

The department has an extensive range of laboratories and scientific, computing and technical services. More than £3 million of investment in recent years means that state-of-the-art facilities, equipment and a well-stocked library are available to our researchers. Our researchers have access to:

- clean-room facilities
- a state-of-the-art microscopy suite encompassing SEM, TEM, AFM, confocal fluorescence and Raman microscopies
- suitable instrumentation for biological and materials science studies including a wide-bore 500 MHz NMR spectrometer, powder, single crystal and small angle X-ray diffractometers
- customised mass spectrometry facilities which include LC-MS/MS and proteomics capabilities, MALDI ToF/ToF-MS/MS with imaging capability and ion trap LC-MS/MS with HPLC
- a full range of analytical capabilities through ICP-AES and ICP-MS, supplemented by a CHNS elemental analysis service, particle size analysers, HPLC, GC (including headspace analysis), capillary electrophoresis, ion chromatography, atomic absorption, IR, UV-visible and fluorescence spectrophotometers, a suite of electrochemical instrumentation and specialist sample preparation equipment including microwave digestion and accelerated solvent extraction
- research laboratories house further specialist equipment including differential scanning calorimeters, matrix isolation facilities and Mössbauer spectroscopy
- computational modelling software including Comsol Multiphysics (for finite element calculations) and Gaussian (for ab initio molecular modelling)
- support services including an electro-mechanical workshop, a glassblower and a staffed facility for the fabrication of microfluidic and lab-on-a-chip devices

The department plays a central role within the University’s recent Positron Emission Tomography Research Centre via radiochemistry research in CT scan imaging and radioanalysis.

Information about our taught Masters programmes can be found on pages 18–22.
MSc in Chemistry

About the programme
As the basis of life and the way we live, chemistry is key to 21st-century medical and technological advances. This exciting and wide-ranging discipline occupies the central position among the sciences. The work of chemists has a massive impact on the quality of life through the design, synthesis, evaluation and manufacture of a multitude of essential goods such as industrial and household materials, drugs, pesticides, clothing, food and advanced materials with ‘smart’ properties. There is a strong demand for skilled chemists across the world to develop better drugs, create improved materials and ensure a cleaner environment.

Programme content
In Semester 1 you choose three modules from a list of options. These are designed to give a broad and balanced understanding of the most important developments in modern chemistry.

In Semester 2 you use key research tools, such as online information retrieval, to learn about the background and the planning behind your chosen research project. You also develop specialist knowledge in an area of your choice by selecting two modules from a further list of options.

In Semester 3 you complete an advanced research project culminating in a Masters-level thesis and an oral presentation of your research successes.

Optional modules
Semester 1
- Topics in Organic and Organometallic Chemistry
- Spectroscopy and Structure Determination
- MSc Skills and Lab Techniques

Semester 2
- Advanced Materials
- Advanced Topics in Molecular Medicine
- MSc Literature Project

Semester 3
- Masters Research Project

Assessment
Examinations, reports and assignments, with a project dissertation at the MSc stage.

Special features
The MSc Chemistry degree is designed to enable you to learn at the forefront of the subject, where knowledge meets innovation and research leads to applications. The programme is highly flexible to suit your existing and developing interests and can be tailored to your own design in your module choices and in your research project. In developing research, synthetic and analytical skills, you become ready to shape tomorrow’s world.

As a postgraduate member of the department, you can use our extensive research library and computer facilities, and attend weekly departmental research seminars and colloquia given by national and international researchers.
MSc in Chemistry with Biological Chemistry

**About the programme**

To understand the causes of diseases and to develop new treatments, scientists working at the interface between chemistry and biology study the processes that occur at molecular level.

Biological chemistry encompasses pharmaceutical science, biotechnology and medicinal chemistry. Biological chemists develop new drugs and treatments and need to know how and why these drugs exert their effects to maximise their performance and minimise or eliminate side-effects. They must understand the properties of biological molecules and possess a strong synthetic and theoretical understanding of chemistry, plus knowledge of the molecular basis of biology and medicine. This MSc enables you to learn at the boundaries of biology and chemistry, and to meet the challenges of the worldwide pharmaceutical and biotechnology industries.

**Programme content**

In Semester 1 you take one core module with two other options to give a broad and balanced understanding of the most important developments in modern chemistry.

In Semester 2 you use key research tools, such as online information retrieval, to learn about the background and the planning behind your chosen research project. You also develop specialist knowledge of biological chemistry through core modules in biological macromolecules and advanced molecular medicine.

In Semester 3 you complete an advanced research project culminating in a Masters-level thesis and an oral presentation of your research successes.

**Core modules**

**Semester 1**

- Topics in Organic and Organometallic Chemistry
- Drug Design and Delivery
- MSc Skills and Lab Techniques

**Semester 2**

- Advanced Topics in Molecular Medicine
- Biological Macromolecules
- MSc Literature Project

**Semester 3**

- Masters Research Project

**Assessment**

Examinations, reports and assignments, with a project dissertation at the MSc stage.

**Special features**

This programme gives you the opportunity to develop hands-on experience of state-of-the-art spectroscopic, analytical and computer-based techniques.

As a postgraduate member of the department, you can use our extensive research library and computer facilities, and attend weekly departmental research seminars and colloquia given by national and international researchers.
MSc in Analytical and Forensic Chemistry

**About the programme**

There is a strong worldwide demand for imaginative, skilled analysts with knowledge and hands-on experience of modern analytical instrumentation. This MSc is aimed at feeding this demand by training those with a strong interest in modern instrumentation and forensic analysis.

Forensic science is a multidisciplinary activity that relies on chemical and analytical techniques to provide invaluable evidence from investigations of disasters, accidents and criminal activities. It may involve the detection of tiny amounts of explosives, poisons and drugs or the identification of fibres, paints, combustion residues, glass fragments or counterfeit currency. Forensic work is also of a biological nature, with crime-detection techniques such as DNA fingerprinting requiring an understanding of biochemistry.

In Semester 3 you complete an advanced research project culminating in a Masters-level thesis and an oral presentation of your research successes.

**Core modules**

- **Semester 1**
  - Advanced Analytical Chemistry
  - Forensic Science and Analytical Techniques
  - MSc Skills and Lab Techniques

- **Semester 2**
  - Advanced Forensic Science and Toxicology
  - Advanced Topics in Molecular Medicine
  - MSc Literature Project

- **Semester 3**
  - Masters Research Project

**Programme content**

In Semester 1 you take two core modules and choose one other option to give a balanced understanding of the most important developments in modern chemistry.

In Semester 2 you use key research tools, such as online information retrieval, to learn about the background and planning behind your research project. You develop specialist knowledge of analytical and forensic chemistry through modules in advanced analytical chemistry and advanced forensic science and toxicology.

**Special features**

This MSc gives advanced knowledge and hands-on experience of modern analytical techniques and forensic case studies.

The University’s Analytical Science Group has an international reputation for its innovative approach to analytical and forensic chemistry. Its position as one of the UK’s premier analytical groups and its range of state-of-the-art instrumentation and facilities make it uniquely capable of delivering this distinctive programme.
MSc in Chemistry with Nanotechnology

About the programme
Nanotechnology is revolutionising the development of designer technology. It is concerned with manipulation at the nanometre scale to develop and characterise materials. These materials find applications in many technological areas such as electronics, sensors, liquid crystals, ceramics and biotechnology.

The design, development and application of ‘smart’ and clean materials is a multidisciplinary activity that has enormous economic, social and environmental benefits, as well as offering worldwide employment opportunities. The MSc enables you to learn at the forefront of this new science. In developing research, synthetic and analytical skills, you become ready to shape tomorrow’s world.

Programme content
In Semester 1 you choose three optional modules. These are designed to give a balanced understanding of the most important developments in modern chemistry.

In Semester 2 you use key research tools, such as online information retrieval, to learn about the background and the planning behind your research project. You also develop specialist knowledge of nanotechnology through two other core modules.

In Semester 3 you complete an advanced nanotechnology research project culminating in a Masters-level thesis and an oral presentation of your research successes.

Core modules
Semester 1
• Topics in Organic and Organometallic Chemistry
• Hot Topics in Physical and Materials Chemistry
• MSc Skills and Lab Techniques

Semester 2
• Advanced Forensic Science and Toxicology
• Advanced Topics in Molecular Medicine
• MSc Literature Project

Semester 3
• Masters Research Project

Assessment
Examinations, reports and assignments, with a research project dissertation at the MSc stage.

Special features
The University’s Department of Chemistry is renowned worldwide for the design and synthesis of new classes of liquid crystals and light-emitting polymers for use in flat-screen displays. We have developed new organic and inorganic materials on a nanometre scale and are superbly equipped to deliver a programme focusing on the development of nanoscale science into commercial applications.

Our research interests
Biological chemistry; inorganic and magnetic materials; lab-on-a-chip; lasers and microfabrication; lipids; liquid crystals; microfluidics; organophotonics; physical sciences education; surfactants and colloids.
MSc in Occupational Health, Safety and Environmental Management*
MSc in Occupational Health and Safety Management*
MSc in Environmental Management*  *Subject to approval

About the programme
The MSc qualifications are open to holders of a NEBOSH Diploma or a BSc and will be delivered through distance learning and are aimed at Health, Safety and Environment professionals wishing to gain a taught Masters-level qualification that complements their career. The programme consists of taught modules on advanced topics relating to health, safety and environmental management and a research dissertation that is relevant to your own work.

Programme content
The qualifications consist of an online distance-learning part-time course comprising three modules related to research methodology and literature searches, followed by taught core and optional modules relating to health, safety and/or environmental management. The last module is a research dissertation which is completed at the student’s place of work.

The taught modules are taken in the first year and the first semester of the second year, using the University’s e-learning environment. You also supplement learning with your own background reading. Once these are completed the last six months of the course consists of the research dissertation.

Core modules
All three strands of the MSc start with core modules relating to techniques for undertaking research:

- Research Methods
- Literature Reviews
- Designing Research Projects

Each strand would then comprise two core modules and one optional taught module.

Topics of the core modules include:
MSc Occupational Health, Safety and Environmental Management
- Integrated Health, Safety and Environmental Management systems
- Corporate Social Responsibility

MSc Occupational Health and Safety Management
- Advanced Risk Management
- Corporate Social Responsibility

MSc Environmental Management
- Environmental Sustainability and Social Responsibility
- Ecological Services and Environmental Economics

Optional modules are common to all three strands and include:

- Disaster and Emergency Management
- REACH Management
- Safety Case Production and Assessment
- Flood Risk Management

Each MSc course concludes with:
- MSc Research Dissertation

Please note these courses are offered subject to approval and the topics of the modules may change from those given above.
COMPUTER SCIENCE

The Department of Computer Science
MSc in Computer Graphics Programming
MSc in Games Programming
MSc in .NET Distributed Systems Development
MSc in .NET Financial Systems Development
MSc in Computer Science
MSc in Computer Systems Engineering
THE DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science offers postgraduate opportunities linked to our research expertise. Our commitment is to providing a supportive and effective environment for students.

We have an active group of 75 postgraduate students, supervised by 25 academic staff. Well-equipped laboratories with the latest graphics, games, and software development technologies support our teaching and research programmes.

Through our MSc programmes, we offer the opportunity to study on a selection of highly respected courses in computer graphics, games programming, software engineering and computer systems engineering. With strong industrial links to major companies such as Microsoft, Sony, Volvo, and Electronic Arts, as well as our own in-house software development house, we ensure that our courses remain at the cutting edge of computer technology and development practices. Hull has a reputation for excellence in games development and software engineering, gained as a direct result of the quality of our graduates and postgraduates. In addition, all our degrees are accredited by the British Computer Society and our MSc Games Programming course is accredited by Skillset, recognising the relevance and importance of the skills we teach.

The Faculty of Science and Engineering encourages coordinated teaching and research within science disciplines. In the Department of Computer Science, we have an international reputation for our research activities, with a solid record of industrial and public grant funding. Of particular note are our achievements in computer graphics, image-guided surgery, radiotherapy training, telehealth, clinical decision support and safety-critical systems. Much of this multidisciplinary research involves members of other universities, commercial organisations and healthcare providers. We also have specialist facilities for graphics research in the form of Hull Immersive Visualization Environment (HIVE), our virtual reality research laboratory, and strong commercial links via Software Engineering Experience Development (SEED), our in-house software development unit.

Research areas

We undertake high-quality international research within computer science and contribute to major research themes across the faculty: telemedicine; telehealth and medical systems; transport; and energy and the environment. Much of this multidisciplinary research involves members of other universities, commercial organisations and healthcare providers.

The department’s research is organised within three groups: Dependable Systems (DS), Intelligent Systems (IS) and Simulation and Visualization (SimVis). Each of these groups has dedicated laboratory space with facilities to support research by academic staff, research associates and assistants, and postgraduate research students.

HIVE and SEED are also available to researchers within the department.
MSc in Computer Graphics Programming

About the programme

This MSc prepares you to shape future developments in computer graphics, virtual environments and visualization, and to make substantial contributions to the design and creation of application software involving these closely related areas. The programme encourages innovation and fosters initiative, enabling you to learn independently and to gather information for yourself. You become aware of research issues and the current limitations of modern technology.

The programme consists of two semesters of taught modules followed by an individual project/dissertation. It starts in September each year.

Programme content

The MSc attempts a balance between depth and breadth. Some aspects are studied at a very fundamental and detailed level, enabling you to become a technical problem-solving specialist in these areas. Others are treated more broadly, so you become aware of a wider spectrum of up-to-date software, hardware and human factors.

By the end of the taught part of the programme, you should understand and be able to implement a substantial repertoire of proven fundamental algorithms relating to 3D graphics, including current shader programming and techniques for ray tracing, radiosity, tesselation, geometry manipulation, lighting, shadows, reflections, transparency, and texture mapping, and should be familiar with recent developments. You should be able to handle computational geometry and related mathematics, plus modelling techniques for curves, surfaces and a variety of different kinds of solid object.

You learn simulation techniques for virtual environment applications, including real-time graphics, animation and creation of synthetic worlds, and appreciate the enabling technologies such as high-performance computers and special-purpose hardware. You acquire a thorough understanding and practical experience of visualization in studying scientific data, including issues relating to human factors such as the psychology of perception and visual cognition. You also gain an understanding of the concepts, benefits, applicability and use of an object-oriented language for large-scale software development. In all areas, practical work enhances intellectual understanding and technical competence.

Core modules

- C++ Programming and Design
- Development Project
- Game Development Architectures
- Real-time Computer Graphics
- Simulation and Concurrency
- Visualization

Assessment

Examinations, portfolios, programming and design exercises, and teamwork. The MSc stage includes a dissertation.
**About the programme**

This MSc provides a broad education in computer game design, development and technology, with an emphasis on programming. It develops the skills and knowledge necessary to pursue a successful career in industries specialising in the creation and distribution of leisure and entertainment computing technologies, using computer games development methods and techniques as a vehicle for introducing the theoretical, intellectual, creative and dynamic aspects of computing.

Two semesters of taught modules are followed by an individual project/dissertation. It starts in September each year.

**Programme content**

Little more than two decades ago, electronic games were a curiosity; now they are one of the most popular forms of entertainment. For a number of years the computer games industry has made more money than the film industry and, as games become more commonplace, there is a growing demand for people with the knowledge and skills to design and produce them.

This MSc combines a broad introduction to games development with an in-depth study of the technical aspects of games programming and production. You study advanced programming methods and apply them to computer game problems. These include real-time graphics, artificial intelligence and the use of applied physics. You also gain an understanding of, and the ability to implement, fundamental algorithms relating to 3D graphics including current shader programming and techniques for ray tracing, radiosity, tessellation, geometry manipulation, lighting, shadows, reflections, transparency, and texture mapping and specific programming methods for different gaming platforms.

**Core modules**

- Advanced Rendering and Artificial Intelligence
- C++ Programming and Design
- Development Project
- Game Development Architectures
- Real-time Computer Graphics
- Simulation and Concurrency

**Assessment**

Examinations, portfolios, programming and design exercises, and team work. The MSc stage includes a project dissertation.

**Special features**

We have a long-held interest in computer games and the technologies used to create them. This Masters programme is accredited by Skillset.

The personal computer or games console can be the most advanced item of technology in the family home, and games software uses this advanced hardware to its maximum capabilities. Programming experts are therefore highly regarded in software engineering. Graduates from this MSc have skills that are in demand across the software development industry and the technology sector.
UNITED KINGDOM

MSc in .NET Distributed Systems Development

About the programme
This MSc is suitable if you wish to specialise in large-scale software development for distributed systems and gain essential practical experience. It is also ideal if you are already employed in the computing field and wish to update your knowledge of contemporary computing and specialise in mobile and distributed systems.

The programme is studied full-time over one year and comprises two semesters of taught modules followed by a dissertation. It starts in September each year.

Programme content
Component based architectures such as Microsoft’s .NET framework provide an effective way of offering software services and supporting distributed computing, whether on handheld, desktop or internet or cloud-based platforms. The programme imparts highly marketable skills, giving you in-depth experience of working with .NET software and other managed code environments and putting you in a strong position to shape the future development of large-scale IT systems, including topics such as security and distributed programming.

Core modules
- C# Programming and Design
- Component-based Architectures
- Distributed Applications
- Maintaining Large Software Systems
- .NET Development Project
- Trustworthy Computing

Assessment
Examinations, portfolios, programming and design exercises and team work. The MSc stage includes a project and a dissertation.

Special features
Employers today demand a new breed of software specialist. They want people with proven real-world experience of systems development and the skills to develop systems that will operate on any computer or electronic device, regardless of its size or type. Collaboration between industry and universities is the key to meeting these challenges. That is why the University has cooperated with Microsoft UK to develop this programme, the world’s first .NET postgraduate degree. The course answers industry’s demand for programmers with the ability to work with large-scale code bases. It focuses on the crucial systems-level software development skills needed to extend the boundaries of software innovation.
**MSc in .NET Financial Systems Development**

**About the programme**

This MSc combines technical knowledge of .NET and other component-based architectures with knowledge of finance theory and systems to provide a grounding should you wish to develop applications for financial markets and related areas. It recognises the interest in, and the potential for, building robust and secure financial computer systems using .NET technologies and caters for you if you wish to cultivate skills in large-scale software development for financial systems. It is also suitable if you are already experienced in the computing field and wish to update your knowledge of the latest software developments and to specialise in the development of financial computer systems. This MSc provides a specialist computer science qualification that builds on the success and specialism of the department’s well-established MSc .NET Distributed Systems Development degree.

The programme is studied full-time over one year and comprises two semesters of taught modules followed by an individual project/dissertation. It starts in September each year.

**Programme content**

Microsoft’s .NET framework is well known within the computing industry as a platform for the development of commercial software. One particular application area is that of financial systems. This programme imparts highly marketable skills, giving you in-depth experience of working with .NET software and similar managed code environments alongside an understanding of finance terms and systems. It equips you with the skills required by financial market employers.

**Core modules**

- Component-based Architectures
- Distributed Systems
- Financial Analysis
- Foundations of Finance
- Object-Oriented Design and Development Using C#
- .NET Development Project
- Trustworthy Computing

**Assessment**

Examinations, portfolios, programming and design exercises, and teamwork. The MSc stage includes a project and a dissertation.

**Special features**

This degree programme provides students with a BSc in computer science with the opportunity to specialise at Masters level in applications of .NET distributed systems technology in computer systems for the financial sector. A particular feature is the inclusion of computer science and business modules, integrated at various points in the programme.
MSc in Computer Science

FastFacts

Duration
1 year

Attendance
Full-time

Entry requirements
You should have, or expect to obtain, at least a 2.2 Honours degree (or equivalent) in computing, or be able to demonstrate a significant level of computer programming experience. Please note that appropriate experience is essential as this is an advanced specialist programme. For international students, an IELTS score of 6.0 (5.5 in all skills) or equivalent, such as Pearson PTE, is also required.

Fees
www.hull.ac.uk/money

Location
Hull campus

Contact
Helen El-Sharkawy, MSc Admissions Secretary, Department of Computer Science, University of Hull, Hull, HU6 7RX, UK:
T: +44 (0)1482 465951
F: +44 (0)1482 466666
E: h.m.el-sharkawy@hull.ac.uk

FIND OUT MORE
E: dcs@hull.ac.uk
uniofhull.info/pgcompsci

About the programme
This MSc provides graduates in computer science (or a related discipline) with the opportunity to study the subject to Masters level. One distinctive feature of this degree is the opportunity to acquire industrial experience through Software Engineering Experience Development (SEED) – a software development company embedded within the department.

The programme is studied full-time over one year and comprises two semesters of taught modules followed by an Industrial Placement Project or Dissertation. It starts in September each year.

Programme content
The Computer Science MSc is designed to be more flexible than our other programmes, so students with particular interests and skills from previous studies or experience can choose from the widest selection of Masters-level modules. This is expected to be of particular interest to overseas students.

To allow maximum flexibility, most modules are optional, although a few must be taken in pairs. Choices depend on prior learning and experience.

The degree allows a balance between depth and breadth. Some aspects are studied at a very fundamental and detailed level, enabling you to become a technical problem-solving specialist in these areas. Others are treated more broadly, so you become aware of a wider spectrum of up-to-date software, hardware and human factors.

Core modules
• Industrial Placement Project or Dissertation

Optional modules
• Advanced Rendering and Artificial Intelligence
• C++ Programming and Design
• Component-based Architectures
• Development Project
• Distributed Applications
• Game Development Architectures
• Maintaining Large Software Systems
• .NET Development Project
• Real-time Computer Graphics
• Simulation and Concurrency
• Trustworthy Computing
• Visualization

Assessment
Examinations, portfolios, programming and design exercises, and teamwork.

Special features
The Industrial Placement Project module enables you to gain experience in the skills and practices of commercial software development through working within SEED. This allows you to work on real commercial software development projects.
MSc in Computer Systems Engineering

Fast Facts

Duration
1 year

Attendance
Full-time

Entry requirements
You should have, or expect to obtain, at least a 2.2 Honours degree (or equivalent) in computing, or be able to demonstrate a significant level of computer programming experience. Please note that appropriate experience is essential as this is an advanced specialist programme. For international students, an IELTS score of 6.0 (5.5 in all skills) or equivalent, such as Pearson PTE, is also required.

Fees
www.hull.ac.uk/money

Location
Hull campus

Contact
Helen El-Sharkawy, MSc Admissions Secretary, Department of Computer Science, University of Hull, Hull, HU6 7RX, UK:
T: +44 (0)1482 465951
F: +44 (0)1482 466666
E: h.m.el-sharkawy@hull.ac.uk

FIND OUT MORE
E: dcs@hull.ac.uk
uniofhull.info/pgcompsys

About the programme

This MSc provides graduates in computer systems, computer science, electronics, or telecommunications (with software development experience) an opportunity to study the subject to Masters level. The distinctive feature of this degree is the focus on low-level software development across a variety of hardware platforms, ranging from robots to parallelized computer devices.

The programme is studied full-time over one year and comprises two semesters of taught modules followed by a Dissertation. It starts in September each year.

Programme content

This programme explores the tools and techniques used in the production of embedded computer systems. It equips students with the skills needed to be effective developers of software for these systems and to plan, manage and evolve the software process.

The degree allows a balance between depth and breadth. Some aspects are studied at a very fundamental and detailed level, enabling you to become a technical problem-solving specialist in these areas. Others are treated more broadly, so you become aware of a wider spectrum of up-to-date software, hardware and human factors.

Core modules

- Robotic Systems and Artificial Intelligence
- C++ Programming and Design
- Development Project
- Game Development Architectures
- Real-time Computer Graphics
- Simulation and Concurrency

Assessment

Examinations, portfolios, programming and design exercises, and teamwork.

Special features

Students will develop an in-depth critical awareness of all phases of software development, an understanding of computer hardware and practical experience of software development for embedded hardware.
ENGINEERING

The School of Engineering  
MSc in Electronic Engineering  
MSc in Mechanical Engineering  
MSc in Petroleum, Oil and Gas: Chemical Engineering Management  
MSc in Petroleum, Oil and Gas: Chemical Engineering Technologies
The School of Engineering offers four one-year full-time taught Masters programmes, plus many exciting research opportunities.

We have well-established links with industry in the UK and overseas, and many senior academic posts are supported by industrial companies. The school also has extensive links with the international academic community, supports long-term visits of internationally recognised researchers to Hull and has formal exchange programmes with a number of overseas universities.

Information about our taught Masters programmes can be found on pages 33-36.

The School of Engineering is always developing its MSc provision to offer new and exciting programmes relevant to the employment market. We will soon be launching a suite of new programmes targeted at the energy industry focusing on developing knowledge and skill in Energy Technology, Energy Technology in the Built Environment, Renewable Technologies and Process Systems. In addition, we are developing new programmes in the areas of Medical Engineering, designed to meet the needs of this rapidly developing industry.

Keep updated on the latest exciting new courses by visiting us online: www.hull.ac.uk/engineering.
MSc in Electronic Engineering

About the programme
This MSc is for you if you wish to study a generic programme that is not biased towards a specialisation. It provides advanced knowledge across electronic engineering without being focused on a particular area. It is a flexible programme with a range of options to accommodate your preferences, allowing you to gain subject-specific and generic skills. It combines academic depth with current industrial practice in the context of real engineering applications.

Programme content
The programme’s aims and objectives are to:

• satisfy the demand for engineers trained beyond BSc level
• impart sound general knowledge in advanced electronic engineering
• provide an intellectual challenge
• facilitate your professional development and enhance your career prospects

Core modules

• Product Planning and Design Exercise (Semester 1)
• Complex Circuits and Systems (Semester 2)
• Dissertation

Optional modules
You choose four modules from the following (although not all modules may be available in any one session):

• Advanced Digital Systems Design
• Advanced Discrete Time Signal Processing and Integrated Circuit Design
• Applied Optoelectronics
• Advanced Control
• Control and Robotics
• Machine Vision
• Communication Systems
• Mobile Radio, Propagation and Antennas
• Radio Frequency and Microwave Devices, Techniques and Measurements

Assessment
The taught modules are assessed by coursework and by written examinations taken in January and May. The project is finished in September and examined by dissertation and viva.

Special features
There is a significant demand for engineers trained beyond BEng/BSc or graduate level. This MSc provides a rational, flexibly structured and coherent programme of postgraduate study. You achieve a profound knowledge base in a wide area of electronic engineering and develop your wider skills in IT, communication, problem solving, teamwork and task management. As a result, the programme can be a springboard to a successful professional career.

FastFacts

Duration
1 year

Attendance
Full-time

Entry requirements
Normally an Honours degree (typically 2.1 or above) in an engineering or related discipline, but less well-qualified applicants with relevant industrial experience may be considered. For international students, an IELTS score of 6.0 (5.5 in all skills) or equivalent, such as Pearson PTE, is also required.

Location
Hull campus

Contact
Postgraduate Admissions Secretary:
T: +44 (0)1482 465141
E: engineering.admissions@hull.ac.uk

FIND OUT MORE
E: engineering.admissions@hull.ac.uk
uniofhull.info/pgeleceng
About the programme

If you are an Engineering graduate, this MSc allows you to develop an in-depth knowledge of theoretical and practical applications of Mechanical Engineering, including a critical awareness of current issues and developments. Its general approach is applicable to all industry sectors, such as automotive, renewable energy, aerospace and product development. Our graduates are capable of applying advanced Mechanical Engineering topics to complex problems relating to engineering design, analysis and manufacturing processes.

Programme content

The aims and objectives of this MSc programme are to:

• integrate theory with current industrial practice in the context of Mechanical Engineering
• develop knowledge and skills in advanced Mechanical Engineering topics with the transferable skills required by today’s engineering professionals and managers
• provide the knowledge, skills and confidence to develop new products
• provide advanced skills in the latest computer-aided design and manufacture techniques
• provide training in research methods, and offer experience

Core modules

• Engineering Systems and Lifecycle Engineering
• Product Innovation and Support Technology
• Statistical and Reliability Engineering

Optional modules

You can choose three modules from the following (although not all modules may be available in any one session):

• Advanced Computer Aided Analysis and CADCAM
• Dynamics and Vibration of Mechanical Systems
• Energy Technologies
• Engineering for Manufacture and Flexible Automation
• Industrial Management, Research Skills and Project Planning
• Thermofluids and Acoustics
• Thermofluids and Research and Project Planning

In addition, you carry out a major project, which is usually linked to a current research project in the school.

Assessment

The taught modules are assessed by coursework and by written examinations taken in January and May. The project is finished in September and examined by dissertation and viva.

Special features

The school has a long history of delivering teaching and research in the area of mechanical engineering, producing graduates with excellent career prospects in all industry sectors. This MSc offers a broad education in advanced mechanical engineering while providing you with the flexibility to tailor your studies according to your interests.
MSc in Petroleum, Oil and Gas: Chemical Engineering Management

**FastFacts**

**Duration**
1 year

**Attendance**
Full-time

**Entry requirements**
You should, or expect to obtain, a 2.1 Honours degree (or equivalent) in an engineering or science-related subject. Applicants must have studied mathematics at level 4 or higher. For international students, an IELTS score of 6.0 (5.5 in all skills) or equivalent, such as Pearson PTE, is also required.

**Location**
Hull campus

**Contact**
Postgraduate Admissions Secretary:
T: +44 (0)1482 465141
E: engineering.admissions@hull.ac.uk

**About the programme**
This MSc is suitable for applicants from a wide variety of engineering and scientific backgrounds. It is appropriate for a managerial career in the petroleum, oil and gas industry.

**Programme content**
This programme integrates important, current and employer-relevant themes. It enables you to acquire knowledge and skills across a range of topics for petroleum, oil and gas technology, with an emphasis upon management. This MSc is taught by lectures, practical experiments and design projects, supported by problem classes and tutorials.

**Core modules**
- Engineering Management for Process Industries
- Sustainable Business: Principles and Practice of Green Management
- Management-based research project
- Petroleum and Petrochemical Engineering
- Energy Technologies
- Process Simulation and Modelling

**Optional modules**
- Qualitative Research in Business and Management
- Quantitative Research in Business and Management
- Advanced Research in Business and Management

**Assessment**
Problem-solving exercises, practicals, computer-based assessments, examinations and project work.

**Special features**
The focus on technology, its applications, uses and refinements, are novel features of this programme.

Our campus is ideally situated in the Humber region, which is home to more than 350 companies involved in the chemical and allied industries, including ConocoPhillips, BP Chemicals, Total, RB, formerly known as Reckitt Benckiser, and Smith and Nephew.

As a student on the MSc, you gain access to some of the best facilities in the UK including the Centre for Assessment of Technical Competency. This £8 million centre provides experience of realistic equipment and operating procedures.

We work closely with industry to ensure the standard of our programme keeps pace with advances in the profession. For this reason, our engineering graduates are highly sought-after by all employment sectors. The school’s continued development of chemical engineering-related provision has the support of the chemical and process engineering’s professional body, the IChemE.

**Research areas**
The school focuses on the application of research to solve real-world problems by taking a multi-disciplinary approach. Specialist research activities include: process simulation; energy utilisation; carbon capture and sequestration; oil and gas engineering; heat transfer and fluid dynamics.
MSc in Petroleum, Oil and Gas: Chemical Engineering Technologies

About the programme
Designed in close collaboration with industry, this programme takes a theoretical and a practical approach to ensure it meets the requirements of potential employers. It is suitable for applicants from engineering and scientific backgrounds. It is appropriate for a technical career in the petroleum, oil and gas industry.

Programme content
This MSc integrates important, current and employer-relevant themes and enables students to acquire knowledge and skills for petroleum, oil and gas technology, with an emphasis upon chemical engineering applications. It is taught by lectures, practical experiments and design projects, supported by problem classes and tutorials.

Core modules
- Chemometrics
- Petroleum and Petrochemical Engineering
- Technology-based research project
- Energy Technologies
- Industrial Management, Research Skills and Project Planning

Optional modules
Semester 1
- Advanced Reaction Engineering
- Advanced Process Safety and Control

Semester 2
- Advanced Particle Technology and Separation Processes
- Advanced Process Simulation and Modelling Techniques

Assessment
Problem-solving exercises, practicals, computer-based assessments, examinations and project work.

Special features
The focus on technology, its applications, uses and refinements, are novel features of this programme.

Our campus is ideally situated in the Humber region, home to more than 350 companies involved in the chemical and allied industries, including ConocoPhillips, BP Chemicals, Total, RB, formerly known as Reckitt Benckiser and Smith and Nephew.

As a student on the MSc, you gain access to some of the best facilities in the UK, including the Centre for Assessment of Technical Competency. This £8 million centre provides experience of realistic equipment and operating procedures.

The school’s continued development of chemical engineering-related provision has the support of the chemical and process engineering’s professional body, the IChemE.

Research areas
The school focuses on the application of research to solve real-world problems by taking a multi-disciplinary approach. Specialist research activities include: process simulation; energy utilisation; carbon capture and sequestration; oil and gas engineering; heat transfer and fluid dynamics.
GEOGRAPHY, ENVIRONMENT AND EARTH SCIENCES

The Department of Geography, Environment and Earth Sciences
MSc in Environmental Technology
MSc in Environmental Technology: Renewable Energy
The Department of Geography, Environment and Earth Sciences is a world-class centre of excellence for interdisciplinary research into, and postgraduate study of, human and physical environments, and earth sciences.

The Research Assessment Exercise (RAE) of 2001 ranked Hull’s Geography, Environment and Earth Sciences Department as one of the leading centres for geographical research in Britain. The most recent RAE in 2008 reinforced this reputation for areas of world-class research.

Our facilities and training provision reflect these leading rankings, and we provide extensive teaching, library and support facilities in a friendly and supportive environment. In particular, we offer:

- An active and vibrant research culture with a large, but not impersonal, postgraduate community.
- High-quality resource, laboratory, computing and computer support facilities.
- A personal, yet thorough, training programme within the department, and access to the University’s comprehensive postgraduate training programme.
- Individual supervision, small-group tutorials and full seminar programmes.
- Selected scholarship, tutorship and fee support.
- Recognition by research councils for the award of studentships for MPhil, PhD and taught Masters programmes. Information about our taught Masters programme can be found on page 39–40.

With strong showings in the Research Assessment Exercises of 2001 and 2008, the department is a world-class centre of excellence for interdisciplinary research into human and physical environments.
MSc in Environmental Technology

About the programme

Environmental Technology is a major area of economic and policy relevance in the UK and internationally. This interdisciplinary MSc programme is based in the Department of Geography, Environment and Earth Sciences and is supported by the Department of Chemistry and the Schools of Engineering and Biological, Biomedical and Environmental Sciences.

This qualification is suitable for a career in environmental management, waste management, environmental consultancy or government agencies, or as preparation for a PhD. The programme commences in September and is also available for part-time study.

Programme content

This MSc imparts the key scientific and technical principles involved in environmental management, as well as a critical awareness of relevant current debates and contemporary policy and practices in environmental technology. The research and analytical skills you can develop include GIS, and group and independent study skills. Work placement is also available as an option.

Core modules

- Dissertation (18,000-words)
- Eco-Design
- Research Design
- Waste Management (accredited by the Chartered Institution of Wastes Management)

Optional modules

You choose three options from the list. Some modules have minimum or maximum students numbers. We regularly review all our programmes.

- Applied Project (work placement)
- Environmental Policy and Technology
- Industrial and Environmental Chemistry
- Principles of GIS
- Principles of Renewable Energy

Assessment

Assessment methods include essays, examinations, group projects, presentations and a project dissertation at the MSc stage.

Special features

We have strong links with local industry and government, so work-based modules or industry-based dissertations, or both, are possible. The programme is supplemented by visiting speakers and trips to industrial sites.

We were acknowledged as a leading department nationally in the two most recent Research Assessment Exercises.

Research areas

- Eco-design (products and materials)
- Water Quality
- Renewable Energy (especially tide- and wave-related)
- Waste Management
- Resource Efficiency
MSc in Environmental Technology: Renewable Energy

**About the programme**
Renewable energy is a major area of economic growth and career potential, in the Humber region and across the United Kingdom. This new, industry-facing Masters programme has been developed with a number of major renewable energy companies and is designed to provide you with the specific skills and knowledge to work in the renewables sector. There is a strong industrial component, including site visits, guest speakers from industry and the use of industry-standard software packages. The programme leads to careers in the marine, wind and solar sectors and includes full training in project management alongside and within the modules.

The programme is available for part-time study. Programme graduates can continue to study for research degrees within the Renewable Energy field.

**Programme content**
We regularly review all our programmes. Instruction covers traditional lectures, tutorials and a range of practical and computer classes in our well-equipped, new Renewable Energy laboratories and IT suites. Students experiment with model wind tunnels, wave and tidal power devices and with PV systems, as well as using industry-standard software for resource and environmental analysis.

**Core modules**
- Applied Renewable Energy
- Dissertation (18,000-words)
- Eco-Design

**FastFacts**

**Duration**
Full-time 1 year; part-time 2 years

**Attendance**
Full-time or part-time

**Entry requirements**
A good Honours degree or equivalent in a relevant subject, or appropriate experience in a professional environment. A minimum of GCSE Grade C Maths and/or Physics or equivalent required. For international students, an IELTS score of 6.0 (5.5 in all skills) or equivalent, such as Pearson PTE, is also required.

**Fees**
www.hull.ac.uk/money

**Location**
Hull campus

**Contact**
Professor Jack Hardisty: E: j.hardisty@hull.ac.uk

**Assessment**
Essays, examinations, group projects, presentations and a project dissertation at the MSc stage.

**Special features**
This programme has been designed to be suitable for a career in Renewable Energy. The department has very strong industrial links with engineering and environmental companies working within renewable energy. Placements are arranged for dissertation research projects. Recent placements have included working with Parsons Brinkerhoff, Balfour Beatty, Centrica and ABP.

Bursaries are available from companies where relevant and these are awarded by competition.

We were acknowledged as a leading department nationally in the two most recent Research Assessment Exercises.

**Research areas**
- Environmental resource analysis, particularly wind, wave and tidal stream power
PHYSICS AND MATHEMATICS

The Department of Physics and Mathematics
MSc by Research
MSc in Financial Mathematics*

*subject to final approval
THE DEPARTMENT OF PHYSICS AND MATHEMATICS

The Department of Physics and Mathematics was set up in August 2012 to build on the success and growth of Physics within the former Department of Physical Sciences and incorporating the Centre for Mathematics.

Physics has a long-established and thriving research culture at Hull, with a mixture of experimental and theoretical groups having an applied focus. Our research featured in the publication Eureka UK, which highlights 100 developments and discoveries in UK universities that have changed the world.

There are five main groups: experimental solid state physics; lasers; theory of condensed matter; astrophysics and gravitation; and applied mathematics. We have an international reputation in areas such as: photonics; nanophysics; organic electronic and optoelectronics; laser processing of materials; condensed matter theory, both inorganic and organic; also in cosmology; observational astronomy; string theory; and solar physics. Our research is funded by public and private bodies, such as the EPSRC, the EU, the Leverhulme Trust and the Office for Naval Research. We also attract industrial funding. Recently, we established a spin-out company, Polar OLED, to exploit our research in organic semiconductors.

Physicists contributed to the Research Assessment Exercise (RAE) submissions for chemistry and engineering; reflecting the interdisciplinary character of the department’s research. The department operates an ‘open-door’ policy and is committed to providing a friendly and supportive teaching environment. Lectures are complemented by small-group tutorials and one-to-one academic supervision during the one-semester research project. We are proud of the good employability of our postgraduate students. More than half of our recent MSc graduates have gone on to further study for a PhD.

Physics is located in the heart of the Hull campus with excellent research and teaching laboratories, which were recently refurbished. Research facilities include lasers, spectroscopy, device fabrication, a microscopy suite, a clean room and high-performance computing.
MSc by Research

About the programme
We offer a one-year full-time MSc programme for study by research in Physics and Mathematics.

Research covers the following areas:
- Lasers and their Applications
- Theory of Condensed Matter
- Experimental Solid State Physics
- Astrophysics and Gravitation
- Applied mathematics

Research is funded from a range of sources, including the Engineering and Physical Sciences Research Council, the Royal Society, government and industrial establishments. Our work also benefits from strong interdisciplinary links within the University and with other groups at national and international level.

We have well-established links with a number of industrial companies and research centres with which we conduct collaborative research.

Our postgraduates are eagerly sought after by employers and commonly find jobs in universities, research establishments, industry or commerce, in the UK and abroad.

Supervision and progress
All research students have one primary research supervisor and at least one other supervisor, depending on their project. There is a well-established supervisory and training programme with strong additional support through the University’s nationally recognised postgraduate training scheme.

Applications
Details of how to apply are available at uniofhull.info/appresearchdegree.

Enquiries about specific areas of research may be directed to the appropriate member of staff, but formal applications and general enquiries should be addressed to:

Postgraduate Admissions Secretary
Department of Physics
University of Hull
Hull
HU6 7RX

T: +44 (0) 1482 465464
F: +44 (0) 1482 466410
Email: admissions-physics-maths@hull.ac.uk

Or

Dr Ali Adawi
Admissions Tutor for PhD students
Department of Physics of Mathematics
The University of Hull
Hull
HU6 7RX
UK

T: +44 (0)1482 465037
F: +44 (0)1482 465606
Email: a.adawi@hull.ac.uk

Fees
www.hull.ac.uk/money

Location
Hull campus

Contact
Dr Ali Adawi,
Department of Physics and Mathematics:
T: +44 (0)1482 465037
F: +44 (0)1482 465606
E: a.adawi@hull.ac.uk

Find Out More
E: admissions-physics-maths@hull.ac.uk

uniofhull.info/pg-research
Adjusting a laser beam for optical spectroscopy
MSc in Financial Mathematics

FastFacts

Duration
1 year

Attendance
Full-time

Entry requirements
You should have, or expect to obtain, a 2:1 Honours degree (or equivalent) in a business or science-related subject. Applicants must have studied mathematics at level 5 or higher. For international students, an IELTS score of 6.0 (5.5 in all skills) or equivalent, such as Pearson PTE, is also required.

Fees
www.hull.ac.uk/money

Location
Hull campus

Contact
Postgraduate Office, Hull University Business School, University of Hull, Hull, HU6 7RX, UK:
T: +44 (0)1482 463254
E: businessmasters@hull.ac.uk

About the programme
In recent years, there has been an increased focus on financial risk assessment and informed decision making, which has highlighted the need for financial specialists who not only understand finance, but can also independently model the behaviour of complex financial instruments within risk management, compliance and regulatory restrictions. Experts within Hull University Business School (HUBS) and the Department of Physics and Mathematics in the Faculty of Science and Engineering have collaborated in developing and delivering this programme.

This MSc is studied full-time over one year starting in September. It comprises two semesters of taught modules followed by an individual dissertation project.

This MSc is led by HUBS. For details, see www.hull.ac.uk/hubs.

Programme content
This programme equips you with knowledge, comprehension and practical applications of mathematical and computational finance techniques, some of which are at the forefront of the finance discipline.

Core modules
- Quantitative Techniques in Finance and Investments
- Mathematic Methods in Finance
- Risk and Insurance
- Portfolio Management
- Individual Project/Dissertation
- Numerical Methods in France
- Professional Skills and Ethics
- Risk Management
- One Optional Module

Assessment
Problem-solving exercises, computer-based assessments, coursework reports, examinations and project work.

Special features
This programme is distinctive in that it provides:
- A holistic approach to Financial Mathematics and its applications
- Core finance that has been tailored to mathematical derivatives
- Opportunities for informed financial decision making through mathematics
- A bespoke Professional Skills module ensures you are work-ready
- A Research Methods module that develops your research skills
- A curriculum that is relevant to the needs of employers
- An opportunity for growth in new areas, such as new models generation, and business development
- A pre-Masters stage for students who do not have the necessary mathematical skills for direct entry.

Find OUT MORE
E: admissions-physics-maths@hull.ac.uk
uniofhull.info/pgfinmath
PSYCHOLOGY

The Department of Psychology 48
MSc Clinical Applications of Psychology 50
MSc in Health Psychology / Psychology and Health 52
MRes in Research Methods in Psychology 54
MSc Psychology 55
THE DEPARTMENT OF PSYCHOLOGY

Psychology has more to offer at Hull. The department is one of the oldest and most firmly established in the UK, starting in 1928 when the University College of Hull was founded. We conduct research at the forefront of scientific psychology that has impact on practice in psychology, mental and physical health, in education, sport and industry.

In the department's nine-decade history, many well-known psychologists in all branches of the profession, from university professors and government scientists to psychologists in research and development, have begun their careers at Hull. With York, we offer a unique opportunity whereby undergraduates can take specialist modules in clinical psychology then compete to be selected for direct entry to the Hull Clinical Psychology Training Programme.

We are a friendly yet focused department, determined to give students an excellent education and qualifications that are sought after by employers. Currently we are made up of 36 academics, five administrative staff, four technicians, 550-plus undergraduates and many postgraduate students. We have a vibrant and forward-looking culture and are always welcoming.

Our home buildings provide a suite of highly specialised laboratories for psychophysiology, neuropsychology, cognition, perception and motor skills, human performance and human nutrition. We also have a large networked computer suite and many other features that support our cutting-edge research and commitment to teaching excellence.

In the most recent Research Assessment Exercise in 2008, 35% of our research was rated as internationally excellent or world-leading, and a further 45% was internationally recognised in terms of originality, significance and rigour.
Researchers in the department examining the phantom limb syndrome
MSc Clinical Applications of Psychology

About the programme

This programme is designed to provide knowledge and experience relevant to a career as a mental health practitioner, including a possible future application to train as a Chartered Clinical Psychologist, and to develop students’ knowledge and experience of the psychology of mental health. It does not confer any license to practice. There is substantial local and national need for more mental health practitioners, because mental health problems are more widely recognised than they used to be. Moreover, psychological wellbeing is an important factor in a wide range of physical health issues, including health-compromising behaviours, the effective management of long-term health conditions and healthy aging.

During this MSc you improve your research skills and learn what is required to practice professionally as a psychologist or other mental health practitioner. You also learn how to apply psychological knowledge to form interventions for a variety of mental health problems and issues, and acquire a good knowledge of current thinking about the nature of mental health, its psychological and neurological causation, and what the best evidence-based interventions are for mental health problems.

Study is full-time over one year starting in September and comprises two semesters of taught modules. One module during the second semester includes a placement, followed by an individual empirical research project supervised by a member of staff over the summer.

Clinical Applications of Psychology

Is for students who wish to learn more about the use of psychological knowledge and techniques in clinical settings. It is structured around the core competencies required of Clinical Psychologists. You are introduced to and learn about the competencies, but are not required to achieve them in order to graduate. If you are seeking a Clinical Psychology training place it offers relevant skills and experience. It is relevant to other careers related to mental health, although it does not provide any license or qualification to practice. It is also suitable if you are already working in health and social care and you wish to increase your knowledge and skills in psychology.

Using psychology in mental health practice

Many health and care professionals use psychological knowledge and techniques, such as cognitive behavioural therapy and related psychological interventions, in their practices. As well as Clinical Psychologists, examples include Psychiatrists, Mental Health Nurses, Social Workers, Youth Workers, Criminal Justice and Youth
Justice Workers, Counsellors, Public Health staff, and staff from a variety of professional backgrounds working in specialised areas such as addictions, tobacco control, weight management, eating disorders, neurological rehabilitation, end-of-life and bereavement, and the management of severe and chronic health conditions.

Programme content
The knowledge, skills and experience acquired are not only relevant to careers in clinical psychology, but also to other careers in mental health. Learning takes place in lectures, seminars, laboratories, via directed personal study and during a placement, as well as during the design, conduct, analysis and write-up of an empirical research project.

On this programme, you acquire knowledge of psychology relevant to mental health, learn how to do mental health research, understand the nature of evidence-based practice in clinical psychology, develop the knowledge and skills underpinning professional practice as a psychologist – including the ability to reflect on practice – and ethical and confidential practice. There will also be the opportunity for you to increase your experience and skills relating to working with people, and health and social care organisations.

Core modules
- Design and Statistics
- Case Studies in Mental Health
- Mental Health in Practice: In-depth study of a specific topic, including a placement
- Professional Practice and Communication Skills
- Theories of Mental Health
- Psychological Interventions

Optional modules
Students may replace any one of the following modules with an appropriate and agreed 20-credit module from elsewhere in Hull’s postgraduate catalogue: Case Studies in Mental Health; Theories of Mental Health; Psychological Interventions.

Assessment
You are assessed by a variety of methods, including computer-based assessments, essays, examinations and dissertation/project work.

Special features
This MSc will provide Psychology graduates with a career pathway towards becoming a Mental Health Practitioner, such as a Clinical Psychologist. The mixture of applied and practical learning and experience provides a solid basis for developing other careers in psychology, or elsewhere in the health and social care sector, where psychology is coming to play a pivotal role.

This MSc has been developed by the Department of Psychology in partnership with the Department of Clinical Psychology to ensure the utmost relevance to future service needs.

We have excellent links with local health and social care services and will offer and support a wide variety of placements for students.

The Department of Psychology is well placed to support cognitive and neuropsychology research related to health.

Research areas
Our research investigates a broad range of psychological processes, from the measurement of brain activity to the investigation of individual and group behaviour, from infancy to old age. This research makes a difference to the real world and influences policy and practice in health care, education, sport and the workplace. Our research is centred around three main themes: Cognitive and Clinical Neuroscience; Cognition and Perception and Psychological Health and Applied Psychology.
MSc in Health Psychology / Psychology and Health

FastFacts

Duration
1 year

Attendance
Full-time

Entry requirements
You should have, or expect to obtain, a 2.1 degree in psychology or a related subject. You should also have 30 hours of voluntary or paid work experience relevant to health and social care. For international students, an IELTS score of 6.0 (5.5 in all skills) or equivalent, such as Pearson PTE or, is also required. For MSc Health Psychology you must also have British Psychological Society (BPS) Graduate Basis for Registration (GBR) normally by graduating with a BPS-accredited psychology degree, or by the Special Case route. If you do not have GBR, we recommend MSc Psychology and Health, for which you should have, or expect to obtain, a 2.2 degree in psychology or a related subject. You should also have 30 hours of voluntary or paid work experience relevant to health and social care.

Fees
www.hull.ac.uk/money

Location
Hull campus

Contact
Postgraduate Secretary:
T: +44 (0)1482 466707
F: +44 (0)1482 465599
E: enquiries@psynet.hull.ac.uk
FIND OUT MORE
E: enquiries@psynet.hull.ac.uk

About the programmes

Health-compromising behaviours contribute to the leading causes of morbidity and mortality in many countries, including the UK, so understanding and changing health behaviours is increasingly important for health and social care in a wide variety of NHS services, in other public sector services, and in private and charitable services.

These programmes have been designed according to the requirements of the British Psychological Society (BPS) and the Health Professions Council, to ensure the skills acquired are relevant to contemporary healthcare. These two programmes are identical in content:

Health Psychology is for students who have Graduate Basis for Registration (GBR) with the BPS and confers Stage 1 of qualification as a Chartered Health Psychologist.

Psychology and Health is for other students without GBR and does not confer Stage 1, so it is suitable for students not wishing to become Chartered Health Psychologists in the UK, because they come from another professional background, or do not plan to practice in the UK.

To become a Chartered Health Psychologist: In the UK you need a BPS-accredited undergraduate degree conferring GBR as a member of the BPS, a Stage 1 qualification and a Stage 2 qualification. Stage 2 requires supervised practice as a health psychologist to demonstrate competencies. This can be studied independently, or as a professional doctorate. People lacking a BPS-accredited degree but who have appropriate psychological knowledge and experience, can apply for GBR by the BPS Special Case Route.

What is Health Psychology? It researches and promotes changes in people's attitudes, behaviour and thinking about health and illness. Health psychologists work in universities, in the NHS and in other health and social care settings, such as charities and the private sector. The breadth of the discipline is far-reaching and includes: prevention of health-compromising behaviours; encouraging health-protective behaviours; modelling health-related cognitions as predictors of health behaviours; researching health-care delivery and practitioner communication; and understanding the psychological effects of illness and disease.

Study is full-time over one year starting in September and comprises two semesters of taught modules, a unique clinical placement and an individual research project.
Programme content

The knowledge and skills acquired are not only relevant to careers in health psychology, but also to other careers in psychology, such as clinical psychology, and in other professions in health and social care, including mental health, and the management of wellbeing and illness. Learning takes place in lectures, seminars and laboratories, via directed personal study and an empirical research project, and during a placement.

On this programme, you: acquire knowledge of health psychology; learn how to do health-related research; understand the nature of evidence-based practice in health psychology; develop the knowledge and skills underpinning professional practice as a psychologist – including the ability to reflect on practice; and ethical and confidential practice. There will also be the opportunity for you to increase your experience and skills relating to working with people and health and social care organisations by undertaking our 6–12 week placement in Semester 2.

Core modules

- Design and Statistics
- Health-related Behaviours
- Health Psychology in Practice: In-depth study of a specific topic, including a placement
- Professional Practice and Communication Skills
- Contexts of Health: Social, cultural and organisational contexts
- Understandings of Health: Qualitative and quantitative methods, and the philosophies underlying them

Optional modules

Due to BPS Stage 1 requirements, options are not possible on this programme.

Assessment

Computer-based assessments, essays, examinations and dissertation / project work.

Special features

The opportunity to develop a career as a Chartered Health Psychologist. This MSc has been developed by the Department of Psychology in partnership with the Department of Clinical Psychology to ensure the utmost relevance to future service needs.

We have excellent links with local health and social care services and offer and support a wide variety of placements for students.

The Department of Psychology is well placed to support health psychology research and cognitive and neuropsychological research relevant to health.

Research areas

Human feeding, eating disorders and obesity; substance use and addiction; placebo and nocebo effects; itch and pain; memory; processing of emotional and social stimuli, including faces; processes of attention; hypnosis; sleep; habit acquisition and learning; dementias and other neuropsychological disorders; cognitive development; and theory of mind.

Monitoring brain activity to help formulate an understanding of brain injuries
MRes in Research Methods in Psychology

About the programmes
The MRes in Research Methods in Psychology is of interest to those wishing to improve their research skills in various areas of psychology and who need specific training in statistics and research methods. The research areas include cognitive psychology and cognitive neuroscience, developmental psychology and applied psychology. It provides a good foundation for progressing to PhD studies in psychology, or can lead to jobs requiring advanced research skills in academia, industry, the NHS, the social care sector or education.

Optional modules
You may choose other appropriate modules from the wide range of postgraduate modules available at Hull.

Assessment
You are assessed by dissertation, while the taught modules are assessed by a variety of methods, including computer-based assessments and examinations.

Programme content
Although mostly centred on developing research, the programme includes three core taught modules. These allow you to become a fully trained and competent psychology researcher, with the advanced knowledge and skills required to formulate, design, plan, conduct, analyse, interpret, critique, write up and present psychology research.

Core modules
- Design and Statistics
- Professional Practice and Communication Skills
- either Critical Appraisal Skills and Philosophy of Psychology or Matlab Programming for Behavioural Scientists
- Empirical Dissertation: The design, planning, conduct, analysis and write up of a piece of rigorous psychological research

Special features
The Department of Psychology is well placed to support cognitive and neuropsychology research.

Research areas
Our research investigates a broad range of psychological processes, from the measurement of brain activity to the investigation of individual and group behaviour, from infancy to old age. This research make a difference to the real world and influences policy and practice in healthcare, education, sport and the workplace. Our research is centred around three main themes: Cognitive and Clinical Neuroscience; Cognition and Perception; and Psychological Health and Applied Psychology.
MSc in Psychology

FastFacts

Duration
1 year

Attendance
Full-time

Entry requirements
You should have, or expect to obtain, a 2.1 in Psychology or an allied discipline.

For international students, an IELTS score of 6.0 (5.5 in all skills) or equivalent, such as Pearson PTE or, is also required.

Fees
www.hull.ac.uk/money

Location
Hull campus

Contact
Postgraduate Secretary:
T: +44 (0)1482 466707
F: +44 (0)1482 465599
E: enquiries@psynet.hull.ac.uk

About the programme

The MSc in Psychology is a research degree of interest to those wishing to improve their research skills in various areas of psychology, including cognitive psychology and cognitive neuroscience, developmental psychology and applied psychology. It provides a solid foundation for progressing to PhD studies in psychology, or can lead to jobs requiring advanced research skills in academia, industry, the NHS, education or the social care sector.

Programme content

This is a research-only programme. It allows you to become a fully trained and competent psychology researcher, with the advanced knowledge and skills required to formulate, design, plan, conduct, analyse, interpret, critique, write up and present psychology research.

Core modules

Design and Statistics: A compulsory module covering types of research design and statistical analysis.

Empirical Dissertation: The design, planning, conduct, analysis and write up of a piece of rigorously conducted psychological research.

Optional modules

An optional module is available in Matlab, one of the most complete experimental packages available. You may choose other appropriate modules from the wide range of postgraduate modules available at Hull.

Assessment

You are assessed by dissertation, while the modules are assessed by a variety of methods, including computer-based assessments, essays and examinations.

Special features

The Department of Psychology is well placed to support cognitive and neuropsychology research.

Research areas

Our research investigates a broad range of psychological processes, from the measurement of brain activity to the investigation of individual and group behaviour, from infancy to old age. This research makes a difference to the real world and influences policy and practice in healthcare, education, sport and the workplace. Our research is centred on three main themes: Cognitive and Clinical Neuroscience; Cognition and Perception; and Psychological Health and Applied Psychology.

FIND OUT MORE

E: enquiries@psynet.hull.ac.uk

uniofhull.info/pgpsychol
SPORT, HEALTH AND EXERCISE SCIENCE

The Department of Sport, Health and Exercise Science
MSc Cardiovascular Rehabilitation
MSc Clinical Exercise Physiology
THE DEPARTMENT OF SPORT, HEALTH AND EXERCISE SCIENCE

The Department of Sport, Health and Exercise Science has experienced sustained growth and investment over the past few years. The department has world-class staff and facilities, and a variety of contacts in sport, exercise and health industries.

New academic staff and the development of research facilities within the department, alongside the widening of inter-disciplinary collaboration, have led to the establishment of two research groups of national and international standard:

- Exercise, Health, and Human Performance (EHHP)
- Sport, Pedagogy and Practice (SPP)

The EHHP group undertakes research across the domain of applied sport and exercise sciences, and health and wellbeing from a contemporary integrated-systems perspective.

The SPP group contributes on a range of sport social science topics, including sports coaching, applied sport psychology, reflective practice and contemporary methodology from a critical social-science perspective.

Both of our research themes are applied in orientation and influential in their capacity to inform applied and practice-based settings, including community-based exercise rehabilitation; treatment and management of clinical conditions; regional sports coaching in community sports coaching and education settings; and sport and exercise science support for local and international elite and professional sports.

Within EHHP, specific staff research interests include:

- physiology of intermittent exercise and team sport performance
- ventilatory, cardiac and vascular responses, adaptations to exercise testing and training in groups ranging from the clinical, cardiovascular, respiratory, cardiometabolic disease, through to elite athletes
- nutritional supplementation for sports performance, recovery and health
- environmental physiology, especially effects of hypoxia and heat-acclimation strategies
- age-related and training-induced changes in musculo-articular, muscle and tendon stiffness
- biomechanics of gait and activities of daily living in various groups, for example the obese, the elderly and amputees
- effects of physical activity and exercise programmes on functional mobility in various groups, for example, the elderly, the obese and those with related metabolic disorders
- the impact of psychology in acute and chronic disease conditions, specifically in relation to physical activity or exercise
- the impact of psychological considerations on weight loss and maintenance.
- age-related changes to muscular strength, balance and performance with particular focus on growth, training history and maturation
- exercise and conditioning for injury prevention in sport
- rehabilitation of musculoskeletal conditions, including anterior cruciate ligament
The EHHP research group is responsible for managing laboratories for exercise testing and endurance exercise training equipped with numerous motorised and non-motorised treadmills (Cosmos), Lode and isokinetic (Watt) cycle ergometers, several Oxycon-Pro and other indirect calorimeters, and with Biodex isokinetic equipment.

The department’s laboratories are supported by three members of trained technical personnel. Access and collaboration across a range of established clinical networks, laboratories and analytical and imaging tools of the wider University have been key to EHHP research. The availability of state-of-the-art equipment and facilities supported by dedicated technical staff has provided numerous research opportunities for postgraduate students.

Our facilities include a high-specification environmental chamber and the Biomechanics laboratory contains multiple force plates, an integrated high-speed system of 20 cameras (Mocap), EMG (Noraxon), isokinetic dynamometer (Biodex) and dynamic computerised posturography and balance systems (NeuroCom Smart Equitest).

The Sport, Pedagogy, and Practice (SPP) research group adopts a critical social science approach to research. The group’s work seeks to problematise the predominant rationalistic representation of pedagogy, learning and practice in sport science and sports coaching literature.

The SPP group uses a range of qualitative methodologies to explore the following inter-related topics of inquiry:

- the emotional and micro-political nature of practice in coaching and coach education settings
- the relationship between pedagogical practice and learning in coaching and coach education settings
- the challenges of understanding complexity through qualitative means
- the role of reflexive and reflective writing in the exploration of life experiences
- the role of critical social science and critical reflection in contesting applied practice

In the department we are striving to create and develop an atmosphere in which research is viewed as an important and integral part of our work, such that it adds to the current body of knowledge in our field and underpins our teaching. As researchers, we collaborate with individuals and groups across the UK and around the world.
MSc Cardiovascular Rehabilitation

About the programme
The MSc Cardiovascular Rehabilitation has been developed, in conjunction with the British Association of Cardiovascular Prevention and Rehabilitation (BACPR) to provide postgraduate training and education opportunities for current healthcare professionals or those aspiring to work in this rapidly evolving field. This programme is aimed at a wide variety of groups, including sport and exercise science graduates and personal trainers, as well as established professional groups including doctors, nurses, physiotherapists and sports rehabilitators.

Programme content
The programme provides a distinctive blend of theory and practical skills giving students the knowledge and skills to work directly with patients undertaking cardiovascular rehabilitation in the community, in conjunction with the BACPR exercise instructor qualification. You undertake a clinical placement and also gain advanced academic skills and knowledge to undertake an extended research project in the discipline area. The programme is available at Postgraduate Certificate, Postgraduate Diploma and Masters level.

The Masters programme is a 45-week programme of full-time study although different levels of award are available as follows:

Postgraduate Certificate: Three x 20-credit taught modules taken over an academic year (part-time).

Postgraduate Diploma: Six x 20-credit taught modules taken over an academic year.

Masters Degree: Successful completion of the Postgraduate Diploma stage allows progression to the Masters stage which consists of a research project and dissertation, written up as a journal article with the intention of submitting, where possible, to a relevant peer-reviewed national/international academic journal.

Part-time routes are also available for the Postgraduate Diploma and Masters.

Core modules
- Clinical Exercise Testing, Prescription and Programming
- Psychology of Health and Disease
- Professional Practice and Clinical Placement
- Cardiovascular Disease, Investigations and Treatments
- Essentials of Cardiovascular Rehabilitation
- Research Methods and Statistics
- Research Project Dissertation

MSc Cardiovascular Rehabilitation continued overleaf
MSc Cardiovascular Rehabilitation continued

Assessment
Assessment is through a combination of unseen written exams, essays, assessed coursework including laboratory reports, practical laboratory assessments and oral presentations. The dissertation is based on an independent piece of research.

Special features
The programme has been designed in conjunction with BACPR practitioners and scientists who have been providing specialist training courses in cardiovascular rehabilitation for more than 10 years. The department is currently in the process of seeking accreditation which will allow students from this programme to apply directly to the BACPR, to register for the BACPR Exercise Instructor Training qualification, permitting them to work directly with cardiac patients undertaking structured exercise training programmes in the UK. The department works very closely with the Department of Academic Cardiology, the Hull York Medical School and the local NHS cardiac rehabilitation service which has recently set up a community rehabilitation programme with the department.
MSc Clinical Exercise Physiology

FastFacts

Duration
- MSc 1 calendar year full-time; 2.5 calendar years part-time
- PGDip 1 academic year full-time; 2 academic years part-time
- PG Cert 1 year fast-track part-time or 1.5 years part-time

Attendance
- Full-time or part-time

Entry requirements
- A minimum second class honours degree in a relevant programme (sport and exercise science, nursing, sports therapy, physiotherapy, public health, or medicine). For international students, IELTS ≥ 6.5 with a minimum standard of 6.5 in each component (reading, writing, listening, and speaking).
- DBS clearance required prior to commencing the programme.

Fees
www.hull.ac.uk/money

Location
Hull campus

Contact
PG Administrator, Department of Sport, Health and Exercise Science, University of Hull HU6 7RX
T: +44 (0) 1482 463608
F: +44 (0) 1482 463855
www2.hull.ac.uk/science/shes.aspx

FIND OUT MORE
E: a.k.milson@hull.ac.uk
uniofhull.info/pg-cephysio

About the programme
This programme is aimed at a wide variety of groups, including sports and exercise science graduates and personal trainers, as well as established professional groups including nurses, physiotherapists and sports rehabilitators.

The MSc Clinical Exercise Physiology programme provides a wealth of applied laboratory skills in conjunction with traditional academic knowledge and expertise which is invaluable to professionals working in, and those seeking employment in, the NHS and private healthcare providers, including BUPA and Nuffield Health.

Programme content
This MSc provides you with a distinctive blend of theory and practical skills, focusing on advanced exercise physiology, clinical exercise testing and training, exercise prescription, pathophysiology of disease and exercise adherence and includes phlebotomy, submaximal exercise testing, electrocardiography and much more. You can undertake a placement in one of our regional network clinical healthcare providers. You also undertake a significant research project communicated in an end-of-year postgraduate conference.

The Masters programme is a 45-week programme of full-time study although different levels of award are available as follows:

Postgraduate Certificate:
Three x 20-credit taught modules taken over an academic year (part-time).

Postgraduate Diploma:
Six x 20-credit taught modules taken over an academic year, opportunity to choose an optional module in the second semester.

Masters Degree:
Successful completion of the Postgraduate Diploma stage allows progression to the Masters Stage which consists of a research project and dissertation, written up as a journal article for submission, where possible, to a relevant peer-reviewed national/international academic journal.

Part-time routes are also available.

Core modules
- Clinical Exercise Testing, Prescription and Programming
- Biochemical Analysis of Health and Disease
- Pathophysiology of Cardiometabolic Disease
- Psychology of Health and Disease
- Research Methods and Statistics

Optional modules
- Cardiovascular Disease, Treatments, and Investigations
- Professional Practice and Clinical Placement

Masters stage
- Research Dissertation

MSc Clinical Exercise Physiology continued overleaf
**MSc Clinical Exercise Physiology continued**

**Assessment**

Assessment is through a combination of unseen written exams, essays, assessed coursework including laboratory reports, practical laboratory assessments, and oral presentations. The dissertation is based on an independent piece of research.

**Special features**

The British Association of Sport and Exercise Sciences has an Interest Group in Clinical Exercise Physiology. You have the opportunity to work with national and international leaders in the field of clinical exercise physiology.

This programme is aimed at a wide variety of groups, including sports and exercise science graduates and personal trainers, as well as established professional groups including nurses, physiotherapists and sports rehabilitators.
GENERAL INFORMATION

Support and Study Facilities 64
How to Apply 66
Hull Campus Map 68
Well Connected 70
Money Matters 72
Useful Contacts 73
SUPPORT AND STUDY FACILITIES

The University has a deserved reputation for being welcoming and supportive.

Supervision

Personal supervision of your programme of research is provided by academic staff who are experts in their fields. Our research students are allocated either two joint supervisors or a supervisory panel, with a named individual as main supervisor. This system ensures quality and continuity of support. It also promotes the concentration of expertise in small groups of staff and postgraduates who work closely together. Students are encouraged to meet regularly with their supervisors to gain from their expertise and guidance.

Postgraduate training

The University is a pioneer in the development of training programmes for research students. Training for students on traditional research Masters or PhD programmes is more broadly based and is administered under the Postgraduate Training Scheme (PGTS). This scheme is accredited by the University and has been developed to help you do two things:

• undertake research more effectively
• gain transferable skills which can be used in your future career

The exact course of training that you undertake depends on your specific needs as identified by you and your supervisor.

Part-time students and those generally working away from the University’s campus are offered other opportunities such as week-long Easter and Summer Schools in order to be able to undertake this training.

Through the PGTS you can achieve a Certificate (60 credits) or a Diploma (120 credits) in Postgraduate Research Training. Each is a formal qualification in its own right and adds significantly to your CV. The skills and experience that you gain from the training not only facilitate your research but also enhance your standing in many areas of employment.

The Graduate School

This serves two main purposes. Firstly, it is the main administrative office on the Hull campus for our research students, supplementing the personal supervision and discipline-specific support that you receive in your department. Secondly, it provides a number of valuable facilities for all postgraduate students, whether on taught or research programmes.

The building houses 60 networked workstations, as well as quiet study areas, photocopying facilities,
The library has recently undergone a major expansion and transformation to provide a contemporary learning environment.

lockers for the storage of personal items, a seminar room and a common room for social activities. This makes it the perfect place in which to meet other postgraduate students.

All facilities are available 24 hours a day, 365 days a year.

The library service

The Brynmor Jones Library, which has been newly renovated, holds particularly rich collections of material, including theses, microfilms, videos, music and DVDs, as well as books and periodicals. There is also a well-stocked map library — the Map Room has 60,000 sheet maps — the largest collection in the region. You are automatically entitled to use all library facilities.

All the research specialisms in the University are supported by designated library funds.

Our web pages give access to the electronic catalogue, databases, e-books and e-journals, and to a wide variety of self-services, including book reservation and renewal.

The library has plenty of study spaces, there are more than 1,600 in the Brynmor Jones, networked computer workstations and multimedia equipment.

Find out more, by visiting www.hull.ac.uk/lib.

Computing services

More than 1,100 open-access computers are available across the Hull campus for use by students. Included in this provision is the 24-Hour Centre, which is open to students throughout the year. A wireless network service is also available in the Brynmor Jones Library and at various other sites across the campus. Students have access to more than 500 applications, including the latest Microsoft Office suite and a wide variety of specialist teaching software.

Taylor Court flats in Hull and the halls of residence have network connections in study-bedrooms, with 24-hour internet and email access. Students living in other accommodation are able to use the University’s dial-in service.

www.hull.ac.uk/asc

The Postgraduate Society

The Postgraduate Society has an office on the first floor of the Students’ Union where students are free to call in for advice or a chat. The society organises a regular programme of social activities, including parties, meals, theatre trips and networking events, so there are many excellent opportunities to meet fellow postgraduates across disciplines.
There is no single deadline for applications. We ask that your application reaches the University by 1 August (for a September start) or otherwise at least six weeks before your intended start date. International applicants are advised to give sufficient time for processing by the University and to make visa and travel arrangements.

Please use one of the following methods to apply:

1. Apply online at www.hull.ac.uk/pgapplyonline.
2. Download and print the postgraduate application form and the reference form available online: www.hull.ac.uk/pgapplication and www.hull.ac.uk/pgrefform.
3. Apply directly through a University of Hull recruitment partner in your country. For a full list, please visit our website: www.hull.ac.uk/international.

**Postgraduate research**

In addition to the above, to be considered for a research degree, your application must include your research proposal to enable us to decide if we can match up your interests with a research supervisor. Guidance on writing a research proposal for a research Masters or PhD degree is given on the following page: www.hull.ac.uk/preparingresearchproposal.

**Supporting documents**

With your application you are required to provide academic transcripts, academic references, proof of English language proficiency (if applicable), a copy of your passport and you may be required to provide a copy of your CV and write a personal statement.

The original statement of results, certificate or transcript issued to you by the examination board or awarding institution is required to support your application. You can only provide photocopies if these are officially verified with an original legible stamp and a legible signature from an authorised person. Where documents are not in English it is the applicant’s responsibility to obtain official translation to English if required by the University and to submit both the translation and the original documents that have been translated.

**Entry requirements**

For graduate study, applicants are expected to have the equivalent of a British Honours degree. Detailed entry requirements are provided by course in this brochure. Please note that each application is considered on its own merit and admissions tutors will give careful consideration to other factors, such as work experience and nature of previous studies.

**Funding and fees**

For the latest postgraduate fees please visit our website: www.hull.ac.uk/money.

**Scholarships and bursaries**

**Postgraduate taught programmes**

As part of our planned growth and expansion in Science and Engineering, we are awarding scholarships, valued at £2,000, to international students on application. This scholarship is for taught Masters programmes only.

For more details, see our website: uniofhull.info/scholarshipsandbursaries.

**Postgraduate research programmes**

The University offers a number of scholarships and bursaries to its students, including PhD scholarships in specific research areas. The majority of these are offered directly by the academic departments and are based on academic merit.

On postgraduate research degrees, students are either self-funded or have acquired scholarships from funding bodies such as research councils, commercial sponsorship or government agencies.

**Loyalty discount for Hull graduates**

If you are already a graduate or alumnus of the University of Hull and are considering a taught Masters programme, we offer a loyalty discount of £1,000 for students who achieved a first class honours degree or £500 for students who attained an upper second class honours degree or below.
HULL CAMPUS MAP

1. Brynmor Jones Library
2. Venn Building – Reception
3. Students’ Union
4. International Office
5. Sports Centre
6. Faculty of Arts and Social Sciences
7. Faculty of Education
8. Faculty of Health and Social Care
9. Hull University Business School
10. Enterprise Centre
11. Hull York Medical School, Hull campus

Faculty of Science and Engineering

12. The School of Biological, Biomedical and Environmental Science (CEMS)
   - Hardy Building
   - Wolfson Building
   - Allam Building
13. The Department of Chemistry
   - Chemistry Building
14. Department of Computer Science
   - Robert Blackburn Building
15. The School of Engineering
   - Engineering – Robert Blackburn Building
   - Chemical Engineering
16. The Department of Geography, Environment and Earth Science
   - Cohen Building
17. The Department of Physics and Mathematics
   - Robert Blackburn Building
   - Applied Science
   - Fenner Building
18. Department of Sport, Health and Exercise Science
   - Don Building
   - Health and Human Performance Laboratory
19. The Department of Psychology
   - Fenner Building
   - Applied Sciences 3

Download the iHull app for campus maps and more up-to-the-minute information.

hull.ombiel.co.uk/get
WELL CONNECTED

You have the best of all worlds at the University of Hull.

Not only does our campus in Hull have beautiful surroundings and an abundance of outdoor leisure opportunities right on the doorstep, it is also well situated – making it easily accessible by road, rail, sea and air.
The city of Hull is in East Yorkshire, on the north bank of the Humber Estuary. A gateway to Europe and beyond, it has strong global transport connections as well as good road and rail links to other major UK cities.

Scarborough, a picturesque seaside town, is situated on the North Yorkshire coast, and is within an hour’s drive of York and only 40 miles from the University’s Hull campus.

By road, the M62 puts Hull on the national motorway network. By rail, direct trains between Hull and London take as little as two-and-a-half hours.

By sea, daily overnight passenger ferries run from the city’s port to Rotterdam in the Netherlands and Zeebrugge in Belgium.

And by air, Hull is served by international airports including nearby Humberside Airport, which has direct flights to Europe and a global reach via Amsterdam’s Schiphol Airport; Robin Hood Airport in South Yorkshire; Leeds Bradford Airport in West Yorkshire; and Manchester Airport.

1 HOUR

1 HOUR from Hull to Scarborough

2 HOURS to Manchester Airport

2.5 HOURS to central London

1 HOUR to Amsterdam (Schiphol) from Humberside Airport

Copenhagen

Denmark

Germany

Poland

Luxembourg

Czech Republic
MONEY MATTERS

Transparent costing policy

The University of Hull believes in transparency regarding costs incurred by students studying for its awards. We will clearly identify mandatory costs which arise from undertaking a programme and/or its core modules. The costs of all compulsory field trips and of all field trips at Level 4 (typically the first year) of a programme will be free of charge, as will essential equipment. We will be clear in our information about necessarily incurred costs (e.g. living costs, accommodation, parking and so on) associated with studying at the University and will provide clear guidance in our information about what these are likely to be. A further category is optional costs which may arise from particular module choices. Though optional, these costs may nonetheless be seen by students as necessary if they are to do well on a programme or to get the most out of it, and as such will be made transparent and easily accessible.

Welcome back – Loyalty Scholarships

We know that loyalty is a two-way street. That’s why we offer our alumni a range of fee discount options on our postgraduate taught courses. As a Hull graduate, you already have a lifelong connection with your university; if you’re considering further study, you don’t have to start all over again at a brand new university – a postgraduate programme at Hull would be a natural extension of your student experience with us. Whether you’re looking for an injection of career momentum, a change of direction, or purely to explore your area of academic interest in even greater depth, the wide range of postgraduate studies across our faculties will have something for you. As a postgraduate here, you can take advantage of world-class research expertise, cutting-edge facilities and unrivalled student support.

Be inspired, further information about Loyalty Scholarships and how your University can make postgraduate taught studies more affordable for you is available by contacting:

For faculties and course information; hetuition@hull.ac.uk or Elaine Warrener on +44 (0)1482 465363.

For a range of international scholarships offered by the University of Hull Business School (HUBS); businessmasters@hull.ac.uk or Bella Anand at b.anand@hull.ac.uk
USEFUL CONTACTS

Apply online:
www.hull.ac.uk/pgapplyonline

For further information, please contact:
T: +44 (0)1482 466850
E: pgstudy@hull.ac.uk
www.hull.ac.uk/pgapply

We welcome enquiries on:
T: +44 (0)1482 466904
E: international@hull.ac.uk
www.hull.ac.uk/international

For a full list of fees and funding advice:
www.hull.ac.uk/money

For further information, please visit:
www.hull.ac.uk/scholarshipsandbursaries

You can apply online at:
www.hull.ac.uk/pgapplyonline

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Without limiting the effect of the previous paragraph, we reserve the right to introduce changes to the information given in our brochure, including the addition, withdrawal, re-location or restructuring of courses.

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Publications
Marketing and Communications,
University of Hull,
Hull, HU6 7RX, UK