What will you discover about our world?
The scientific aim of the Global Carbon Project is to develop a complete picture of the global carbon cycle. The definitive source on carbon budgets, the GCP draws heavily on UEA research to better inform climate policy and increase our knowledge of trends in global emissions.

WHAT WILL YOU DISCOVER ABOUT OUR WORLD?

www.uea.ac.uk/research/360co2
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As a postgraduate student within UEA’s Faculty of Science you’ll have the chance to study at the forefront of postgraduate science education and research, with some of the world’s leading academics. You’ll play an integral role in a Faculty dedicated to personal and professional development.

At UEA you’ll benefit from a unique learning environment that encourages a ‘Faculty without walls’ approach to innovation and excellence, in both teaching and research. You’ll be able to take advantage of our strong, interdisciplinary approach, collaborating across the University and with our partner institutes on the Norwich Research Park. This is the ideal environment to unlock your potential and get deeper into your chosen subject.

You’ll be able to immerse yourself in an environment dedicated to producing world-leading research. And you’ll be encouraged and supported in tackling fundamental questions and agendas of global significance.

Whatever your specialism is, you can count on an intellectually challenging learning experience within a supportive educational environment that’s responsive to your needs.

Choose from the following areas of study: biological sciences; chemistry; computing sciences; engineering; environmental sciences; mathematics and pharmacy.

Our research is internationally renowned and we are in the top 10 in the UK for research outputs.

RESEARCH EXCELLENCE FRAMEWORK (REF2014)
WHY STUDY WITH UEA?

You will live and learn in a unique environment where we seek to address the global challenges we face today through our pioneering and boundary-breaking research, all to help build a better, healthier world.

Within the Faculty of Science at UEA you’ll enjoy a lively environment in which high-quality, innovative research flourishes across a broad spectrum of themes. This vibrant culture provides a base for our research-led teaching and underpins all our activities from influence of government policy to presentations at local schools.

WORLD-LEADING RESEARCH
At UEA you’ll be part of one of Britain’s premier research and teaching universities where we are committed to achieving international standards of excellence. In the latest government Research Excellence Framework rankings (REF2014) all of our science research submitted was judged to have international impact. 97% of our research environment, 90% of our research impact and 84% of our research output were all judged world leading or internationally excellent. Many of our scientists have won prestigious awards in recognition of their outstanding achievements. Our Faculty’s success has played a major part in UEA’s excellent reputation.

You will benefit from a research philosophy with interdisciplinarity at its heart. You could participate in collaborative projects not only within the Faculty of Science but with colleagues across UEA, from historians to economists to physicians and across the Norwich Research Park. You could be part of research projects that deliver new concepts and products with direct benefits to the wider community, from topics as diverse as improved digital imaging, to the detection of illicit drugs, and new methods of treating diseases.
FACILITIES
At UEA you’ll be part of an outstanding local scientific network, thanks to our partner institutes on the Norwich Research Park: the John Innes Centre; The Earlham Institute; The Sainsbury Laboratory; the Quadram Institute and the Norfolk and Norwich University Hospital. You’ll be able to take advantage of joint projects and seminar programmes, as well as unparalleled access to shared and coordinated research facilities from sophisticated bio-imaging equipment to the full range of ‘omic’ analyses and underwater gliders that sample the ocean depths.

Our facilities are constantly expanding and improving. You’ll benefit from several new buildings, extensions and refurbishments, thanks to awards from the Research Councils, Wellcome Trust, The Royal Society and The Wolfson Foundation and charities amongst others. Our latest additions include the £75 million Quadram Institute (due for completion in 2018), the Zuckerman Institute for Connective Environmental Research Building (ZICER); the Centre for Ocean and Atmospheric Sciences (COAS); the Biomedical Research Centre (BMRC) and imaging suites; a major new facility for biophysical chemistry; two new laboratories for energy research and the D’Arcy Thompson Centre which houses the UEA Computational Biology Laboratory.

FIRST-CLASS TEACHING
As well as an outstanding scientific network and state-of-the-art facilities, you will also enjoy world-class teaching. The standing of the University’s postgraduate programmes is confirmed by a rigorous process of external assessment by the Quality Assurance Agency (QAA) and by a framework of external peer review. Our most recent Higher Education Review by the QAA in 2015 confirmed that the University meets all UK expectations in relation to academic standards and the quality of students’ learning opportunities. The Review report also identified a number of areas of good practice.

Full-time Master’s (MSc) courses usually last for a period of one year, with the teaching element divided into two semesters. The programmes also incorporate an independent research project or dissertation, with guidance offered by a project supervisor. The Master of Research (MRes) programmes provide foundation training in the basic and advanced research skills sufficient to enter a doctoral programme.

The Faculty also offers Graduate Diploma programmes, ideal for students who have undertaken a first degree in a non or less scientific discipline, but who aim to pursue a career in the sciences.

See page 12 for more information on our research degrees.

ABOUT US
We currently have a total research grant holding of £50 million and around 200 postgraduate research students and 240 MSc students. A substantial number of postdoctoral associates and holders of personal fellowships work within the Faculty. These numbers double when fellows and students in the institutes of the Norwich Research Park are included.

The Faculty of Science encourages a truly collaborative approach, nurturing joint grants, studentships and publications. Both our research and our active population of postgraduate research students are funded from many sources: Research Councils; the EU; national and international governments; charities and industry.

CAREERS AND EMPLOYABILITY
Throughout your time with us you’ll be placed in direct contact with industry and potential employers. You can also take advantage of a full range of services designed to aid your transition into employment. For more information turn to page 52.
We are extremely proud to be a partner of the Norwich Research Park, one of Europe’s leading centres for research and development in plant and microbial sciences, food science, bio-medical science, environmental sciences, computer and information systems and chemistry.

Norwich Research Park is a partnership between the University, three BBSRC supported research institutes – the John Innes Centre, the Quadram Institute, the Earlham Institute – The Sainsbury Laboratory and the Norfolk and Norwich University Hospitals NHS Foundation Trust. Together we make Norwich one of the most highly-cited cities in the UK. The Park is also home to an increasing number of science and technology-based companies. These are growing rapidly with increasing investment to support enterprise and commercial activity, such as The Enterprise Centre at UEA and Leaf Systems International Ltd at JIC.

An Enterprise Zone location, Norwich Research Park offers offices and laboratories on flexible terms as well as land for development. A supportive and innovative environment, the Park also benefits from a number of shared facilities and a superb infrastructure.

The main strength of Norwich Research Park is the concentration of world-leading scientists coupled with the capability for multidisciplinary research. We continue to build on this by attracting new partners and innovative businesses to the Park to collaborate in our research and to develop our vision.

The vision of the Norwich Research Park partners and local government stakeholders is to develop
a thriving science and innovation business park by supporting spin-out and start-up companies and attracting inward investment from large corporate organisations involved in science and technology. With more than 12,000 people including 3,000 scientists, researchers and clinicians and an annual research spend of more than £100 million, Norwich Research Park is one of Europe’s leading centres for research in food, health and the environment.

JOHN INNES CENTRE
The John Innes Centre (JIC) is dedicated to generating knowledge of plants and microbes through innovative research, to applying its knowledge to benefit agriculture, the environment, human health and well-being, and to engaging with policymakers and the public. The Centre is also committed to training scientists for the future. The JIC is a dynamic, multinational community of scientists and students and its reputation for scientific research is known worldwide, attracting some of the best and brightest students from around the globe. As a major centre, the site attracts funding to maintain a broad range of state-of-the-art facilities that include specialist laboratories and controlled environment suites. It has an ongoing laboratory development programme and provides, or has access to, key platform technologies that underpin its science. It has, for example, invested heavily in electron and confocal microscopes, spectroscopy equipment and the advanced robotics and bioinformatics required for genomic, proteomic and metabolomics science. The extensive facilities include a 200 acre farm, the latest laboratories, glasshouses, conference centre and library. The JIC is an international centre of excellence in plant science and microbiology that generates over 200 refereed publications each year appearing in high-impact journals such as Nature and Science. The research covers a wide range of disciplines in biological and chemical sciences, including microbiology, cell biology, biochemistry, chemistry, genetics, molecular biology, computational and mathematical biology.

The Centre is home to more than 400 scientists and support staff including about 80 PhD students and nine Fellows of the Royal Society. As a PhD student working at JIC you will receive support via an interactive supervisory team and professional training and career development staff.

www.jic.ac.uk

THE QUADRAM INSTITUTE
The Quadram Institute (QI) is at the forefront of a new interface between food science, gut biology and health, developing solutions to worldwide challenges in food-related disease and human health.

QI integrates research teams from the former Institute of Food Research with teams from UEA’s Norwich Medical School and Faculty of Science, and clinicians from the Norfolk and Norwich University Hospitals’ Regional Endoscopy Centre, under one roof in a new state-of-the-art building to open in 2018.

Clinicians will work alongside scientists conducting fundamental and applied research. Genome scientists, microbiologists, immunologists, gut biologists, mathematicians, clinicians, food scientists and nutritionists combining to deliver scientifically-validated and clinically-tested strategies to improve human health and wellbeing throughout life.

QI will provide an important service to gastrointestinal endoscopy patients, and having this centre in the same building allows for close collaboration with researchers studying gut health.

The QI Clinical Research Facility will provide excellent facilities for trials with human participants, critical for understanding links between food and health.

At the heart of the Norwich Research Park, QI will deliver a unique pipeline of research from plants to food to digestion to health to deliver healthier foods, and interdisciplinary research that will unravel the microbiome and its influence on health, enabling novel therapies.
The Norwich Research Park has more than 60 food and health research groups based within its partner institutions.

As well as an exciting step in a career in food and health research, QI will provide postgraduate students with transferable skills usable in a wide variety of career paths, as well as opportunities to work with industrial partners and clinicians. Plus, you’ll benefit from the high standards of supervisory practice and mentoring, access to training and development courses, and the incredible student experience you’d expect from studying at UEA.

www.quadram.ac.uk

THE SAINSBURY LABORATORY

The Sainsbury Laboratory (TSL) is a world-leading research institute working on the science of plant-microbe interactions. TSL has developed an enviable reputation for the quality of its fundamental scientific research but is also committed to delivering science solutions that reduce crop losses to important diseases. TSL favours daring, long-term research and has state-of-the-art technologies and support services to enable cutting-edge science.

The Laboratory’s main goals are to:
- Make fundamental discoveries in the science of plant-microbe interactions
- Build on fundamental scientific research and deliver science solutions that reduce crop losses to important diseases
- Provide an outstanding training environment that prepares scientists to excel in their careers.
- Develop and deploy cutting-edge technologies to combat plant diseases and accelerate breeding.

Research topics include: plant innate immune recognition; signalling and cellular changes during plant-microbe interactions; mechanisms of pathogen virulence; evolution of plant-pathogen interactions; and biotechnological approaches to crop disease resistance.

Through TSL you’ll benefit from a vibrant postgraduate student community which hosts visits and seminars by leading national and international scientists, organises career development events and has strong links with the wider student community by way of an annual symposium with Norwich Research Park and Cambridge University students. TSL provides an outstanding training environment that will prepare you to excel in your career, whether you’re a postgraduate student, postdoctoral scientist or early career project leader. Many scientists who have passed through the Laboratory have gone on to work in prestigious laboratories and institutes around the world.

www.tsl.ac.uk

THE EARLHAM INSTITUTE

The Earlham Institute (EI) is a leading institute for the application of computational methods to biological research. EI is a UK hub for innovative bioinformatics through research, analysis and interpretation of multiple, complex data sets, with a cutting-edge high-performance computing facility that hosts one of the largest data centres dedicated to life science research in Europe. Our diverse projects covering the breadth of life on earth are helping us to improve human, animal and plant health – while tackling pressing global issues of food security, climate change, environment conservation and human wellbeing. EI operates a National Capability to promote the application of genomics and bioinformatics to advance bioscience research and innovation. Offering a state-of-the-art DNA sequencing facility, unique by its operation of multiple complementary technologies for data generation.

www.earlham.ac.uk
Choose UEA and you will find yourself in a Faculty of Science with a long and well-deserved international reputation. Your contemporaries will be some of the best academics in the world, and you will follow in the footsteps of students who have gone on to become leaders in their fields.

As a postgraduate student, you’ll be an important part of our research intensive university, contributing to the intellectual vitality and vibrancy of our institution as you learn, grow and develop. As today’s postgraduate, you could be tomorrow’s postdoctoral research fellow and a potential Nobel Prize winner of the future.

Research degrees available are the Doctor of Philosophy (PhD), Master of Philosophy (MPhil) and Master of Science (MSc) by Research. All research programmes involve independent and original research, resulting in an extensive thesis at the end of the programme. As a research student in the Faculty of Science you will undertake a specially developed skills training programme, designed to equip you with the necessary skills and methodological knowledge to undertake original research and progress to a future career.

PhD
A PhD is a research-based programme where you advance knowledge and understanding in your chosen subject, resulting in a thesis of up to 100,000 words.

PhD programmes usually last for a period of three years, however in some cases it may be four. A PhD will demonstrate your ability to conduct original research. It will involve an independent and original study, conducting field work or collecting data, which advances the frontiers of knowledge in the subject area.

MPhil
The MPhil is a shorter research-based programme leading to a thesis of up to 65,000 words, depending on discipline. This should be an original piece of research that demonstrates practical and theoretical understanding. Students register for two years and usually complete within two to three years. An MPhil degree will demonstrate you have the skills necessary to carry out supervised research by the analysis of existing data or small original data sets.

MSc by Research
The MSc by Research is a short research-based programme leading to a thesis of up to 40,000 words, depending on discipline. This should show evidence of ability to conduct original investigations and test ideas. You can choose to study and research full time for 12 months and complete within two years. Or, study whilst working with one of our flexible options.

PhD by Publication
If you are an experienced researcher, you may be eligible for the degree of Doctor of Philosophy by Publication. The work submitted must show evidence of more than seven years’ active research effort in your field. It should also represent a significant contribution to the development of understanding.

If you wish to study part time, the length of all research programmes (PhD, MPhil, MSc by
Research and PhD by Publication) is normally twice that for full-time students.

ENTRY REQUIREMENTS
For all research degree programmes you should have, or expect to obtain, a good first degree (minimum 2:1 or equivalent) or a Master’s degree in a relevant subject. Some Faculty of Science postgraduate research studentship projects may have more precise entry requirements, which are contained in the individual project descriptions on the Faculty Graduate School webpages.

www.uea.ac.uk/science/graduate-school

International students should refer to page 57 or our website for English language requirements.

RESEARCH ENVIRONMENT
We regularly review and develop our programmes in line with our research discoveries. This ensures you are engaged in research at the leading edge of your chosen discipline. UEA is a centre of innovative research and postgraduate research students make important contributions to creating the stimulating environment that exists across the Graduate School.

We are here to ensure that your research studies at UEA fulfil your needs and expectations, and equip you for a successful future. Together with your supervisory team, we will help you to make the most of your time. In addition to your own independent study, you will take part in the general research life of your department, and will be involved in seminars, colloquia and other activities. At the end of your period of registration, you will present your thesis for assessment and be given an oral examination on it.

Research students on most programmes may register on 1 October, 1 January, 1 April or 1 July.

YOUR OWN SUPERVISORY TEAM
As a research student, you will work closely with a supervisory team who will guide and advise you throughout your period of study. The supervisors will also guide you in writing up your thesis, but you retain responsibility for your own work.

When you join us, you’ll receive a copy of our Code of Practice for Research Degrees, setting out how the responsibilities are shared between student and supervisors. We also adhere to the UK Quality Code for Higher Education published by the Quality Assurance Agency in assuring the academic standards of our research degree programmes and the quality of the learning opportunities they provide.

DEVELOPING YOUR SKILLS
Developing your personal and professional skills is part of becoming an effective researcher and making a successful transition into your future career, whatever your field of employment. Our innovative Researcher Development Programmes begin with your intellectual and practical needs as a higher-level researcher.

They aim to help you develop the research skills that underpin the production of high-quality research, from writing your thesis to communicating information to a variety of audiences. They will also help you understand the role of your research in the wider world, and encourage you to reflect on the commercial possibilities of your research, as well as any ethical implications.

A PERSONALISED DEVELOPMENT PLAN
At the start of each year you’ll be asked to review your existing skills, analyse your training needs and design a personal development plan with your supervisory team. Although each of UEA’s Graduate Schools has its own programme, we share a common desire to enhance the quality of postgraduate training. This means you are welcome to take modules from one or more of our three other Faculties – Arts and Humanities, Medicine and Health Sciences, and Social Sciences. This means you can create a bespoke training plan to meet your personal needs and ambitions. This flexible approach also offers an opportunity for you to interact with postgraduate researchers you may not otherwise have met.

www.uea.ac.uk/science/graduate-school
DOCTORAL TRAINING PARTNERSHIPS

Set yourself apart with our doctoral training partnership programmes. You will be part of a vibrant, multinational research community, learning from internationally recognised scientists while contributing to new and exciting discoveries.

NORWICH BIOSCIENCES DOCTORAL TRAINING PARTNERSHIP
The NRP Biosciences Doctoral Training Partnership (DTP) is a PhD training programme supported by the Biotechnology and Biological Sciences Research Council (BBSRC) who recognise Norwich as a major centre for biosciences research in the UK.

The programme involves five world-class research institutions based on the Norwich Research Park. It offers talented biosciences graduates an opportunity to work in a multidisciplinary research environment and join a vibrant student community. In addition to your research project you will develop a range of personal and professional skills through the DTP’s comprehensive training programme. These will help you to become an effective researcher and make a successful transition into a wide range of careers. You will also benefit from a number of cohort training sessions, designed so that DTP students learn together and from each other.

You will also be able to undertake a three-month professional internship in an outside organisation, an innovative and integral element of the programme that is designed to enhance your employability even further. This will widen your experience of the areas of work in which you can apply your PhD skills and training. Recent students have completed internships in policymaking, media, teaching and industry. The BBSRC works closely with our programme to support the delivery of excellent training and ensure you develop into a highly-skilled early career scientist.

www.biodtp.norwichresearchpark.ac.uk

ENVEAST DOCTORAL TRAINING PARTNERSHIP
Engage in cutting-edge research and receive advanced scientific training in a truly multidisciplinary environment with the EnvEast Doctoral Training Partnership. Established in 2014, EnvEast is funded by the Natural Environment Research Council (NERC) and led by the world-renowned School of Environmental Sciences at UEA. We encompass several Schools at UEA, the Universities of Essex, Kent, and Plymouth, and are partnered with 22 world-leading research institutes and enterprises, including the British Antarctic Survey, the Marine Biological Association of the UK, and Plymouth Marine Laboratory.

We offer fully funded NERC PhD studentships for research in the environmental sciences in three main areas:
- Climate, Marine and Atmospheric Systems
- Biodiversity, Ecosystem Services and Sustainable Development
- Natural Hazards.

We also fund projects across the NERC science remit, including those linked with other Research Councils.

www.enveast.ac.uk
We place a high priority on researcher development, offering courses to help you make the most of your doctoral study and prepare you for your future career, whilst building your peer network. EnvEast students have the opportunity to participate in national and international training events, and collaborative training and networking events through our partnership with the Cambridge ESS DTP. They also benefit from E3i, the student-run Enterprise and Innovation Club.

As an EnvEast scientist you will make an outstanding contribution to your discipline and apply your knowledge to the challenges facing society, the global environment, and the economy. We will help to ensure that your research has the maximum impact, both for society, and for your chosen career path.

www.enveast.ac.uk | env.east@uea.ac.uk

NEXUSS CENTRE FOR DOCTORAL TRAINING

The Next-Generation Unmanned System Science (NEXUSS) Centre for Doctoral Training is led by the University of Southampton and includes UEA, the National Oceanography Centre, the British Antarctic Survey, the Scottish Association for Marine Science and Heriot-Watt University (Edinburgh). Launched in 2016, NEXUSS is funded by the Natural Environment Research Council (NERC) and the Engineering and Physical Sciences Research Council (EPSRC).

As a NEXUSS PhD student you will benefit from a novel integration of environmental, engineering and Big Data technology and be guided by a multidisciplinary supervisory team of at least three expert researchers from two or more NEXUSS partner institutes. Your NEXUSS PhD will provide an exciting research project and membership of a cohort trained at the cutting edge of autonomous observations. You will receive 16 weeks of training in the use of Smart and Autonomous Observation Systems (SAOS) technologies and professional skills development. The centrepiece of a NEXUSS PhD is the annual two-week Grand Challenge in which teams of students design and deploy SAOS technologies and apply rigorous data analysis techniques to a simulated, real-world environmental problem. A PhD with NEXUSS represents an exceptional opportunity for you to experience training at world-leading institutes at the forefront of innovation in the field, including UEA – the only UK university to own and operate an ocean glider fleet.

If you are an excellent environmental and life scientist, physical scientist, mathematician, engineer or computer scientist, NEXUSS can help you become a future research leader contributing to both scientific breakthroughs and economic growth. See more at: www.enveast.ac.uk/nexus

SENSS DOCTORAL TRAINING PARTNERSHIP

The South East Network for Social Sciences (SeNSS) Consortium is a Doctoral Training Partnership funded by the Economic and Social Research Council (ESRC) which consists of the following UK universities in addition to UEA: City University London; Essex; Goldsmiths; Kent; Reading, Roehampton; Royal Holloway; Surrey and Sussex.

SeNSS will offer more than 40 fully-funded +3 (PhD) and 1+3 (Master’s and PhD) studentships each year for the next six years, with the first intake of students starting in September 2017. Through its 13 training pathways, advanced skills modules, cohort development, and engagement with research users and practitioners, SeNSS is committed to providing world-class doctoral training for the next generation of social scientists.

A distinctive feature of SeNSS is a focus on the impact of the social sciences. SeNSS will enable students to build strong relationships with both academic, user and practitioner networks at a number of different levels, with the consortium already containing more than 200 existing partnerships with external organisations.

SeNSS studentships are available in the Faculty of Science at UEA on a full and part-time, +3 (PhD) and 1+3 (Master’s and PhD) basis in the following subject areas:

- School of Environmental Sciences
  - Science, Technology and Sustainability
  - Human Geography.

For further information on SeNSS at UEA please see: www.uea.ac.uk/study/postgraduate/research-degrees/doctoral-training-partnerships/senss-dtp-studentships
Study in a vibrant and friendly community firmly embedded in the internationally renowned Norwich Research Park. We boast extensive, state-of-the-art research facilities as well as modern teaching laboratories.
TAUGHT PROGRAMMES
Choose from a diverse range of postgraduate degrees delivered by academic research staff who are experts in their field. More than 2,000 scientists working at our affiliated research institutes on the Norwich Research Park add strength and breadth to our teaching and research. Our research projects are hosted by laboratories across the Park, and much further afield for our ecologists. As a postgraduate student in the School of Biological Sciences, you will gain discipline-based knowledge, as well as all the transferable skills required by modern day scientists, including scientific writing, science communication and engagement, knowledge transfer and ethics for bioscientists.

During your studies, you’ll be fully embraced into our School environment, and all our students are allocated an academic adviser who is there to provide additional academic and pastoral support. This is particularly helpful early on to get you settled into life at UEA.

Your assessment will be through a diverse combination of formal exams, laboratory/field reports, coursework assignments and research projects submitted as a formal bound dissertation.

After graduation you could go on to a range of careers across the world, including further postgraduate study (PhD) or jobs in industry and NGOs.

RESEARCH EXCELLENCE AND FACILITIES
You’ll benefit from our collaborative research ethos across the wide-ranging disciplines of the biosciences. The School contains a dynamic research community with expertise that covers the full spectrum of biology.

The School is spread over two buildings (BIO and the Biomedical Research Centre) joined by the Atrium, which is a focal point for gatherings and networking and which houses the Bio Cafe, a great communal area for staff and students to meet.

OUR RESEARCH AREAS
Our four postgraduate taught courses and various postgraduate research programmes are organised around four areas of research.

Organisms and the Environment
Discover an array of plant and animal systems, in the field and the laboratory, to gain an integrated understanding of adaptation and ecology at the molecular, organismal, population and community levels. By studying questions in evolutionary biology, ecology and conservation, we address both fundamental issues and societal priorities, such as the preservation of biodiversity and essential ecosystem services.

Cells and Tissues
Focus on how cells, tissues and whole organisms develop and work. We have strengths in cell and developmental biology and use modern research facilities to investigate fundamental questions important in health and disease, using for example the cardiovascular and musculoskeletal systems, the gut, the eye and cancer models.

Molecular Microbiology
Address the fundamental aspects of microbiology and microbial biochemistry. Microbes are the most successful organisms on Earth and they are the driving force in the evolution, development and success of multicellular organisms. Our research addresses big questions in microbiology from the effect of microbial communities on host fitness and reproduction to mechanisms of bacterial infection and their role in driving the global sulphur and nitrogen cycles.

Plant Sciences
Study different aspects of plant molecular biology including biochemistry, gene expression regulation by small RNAs, flower development, modelling of cell polarity and disease resistance. We make fundamental discoveries and translate them to cultivated crops to increase nutrient level, yield and resistance against pathogens. The research theme includes The Sainsbury Laboratory, which is based in a separate facility on the Norwich Research Park.

Whichever path you choose, you will benefit from genuine research-led teaching, as well as partnerships with colleagues in other Schools within UEA and affiliated organisations within the Norwich Research Park.

For more information on our research visit:
www.uea.ac.uk/bio/research
For our research degree opportunities visit:
www.uea.ac.uk/bio/phd-research-degrees
“This outstanding course has helped many students develop a career in conservation. The range of skills taught provides a really solid grounding in planning and implementing ecological research. The opportunity to work directly with conservation organisations allows real-world conservation issues to be addressed while enhancing employment and PhD opportunities.”

BECKY LAIDLAW, MSc APPLIED ECOLOGY AND CONSERVATION GRADUATE
MSc APPLIED ECOLOGY AND CONSERVATION

GRADUATE DIPLOMA IN ECOLOGY

1 year full time, 2 years part time

Whether you wish to go on to research or a career in conservation, this flexible MSc course has a lot to offer. You will gain valuable interdisciplinary training as well as specific skills in study design, data collection and analysis, providing an ideal platform for your next step.

ENTRY REQUIREMENTS
For the MSc you should have or expect to obtain a good first degree (minimum 2:1 or equivalent) in a biology-related subject plus evidence of additional conservation experience. First degrees in geography or environmental management are also acceptable if these contain a strong ecological component.

For the Graduate Diploma you should have or expect to obtain a good first degree (minimum 2:1) in any discipline.

International students should refer to page 57 or our website for English language requirements.

ALTERNATIVE QUALIFICATIONS
Non-scientists wanting to retrain may take the one-year Graduate Diploma in Ecology and enter the MSc Applied Ecology and Conservation the following year.

MSc APPLIED ECOLOGY AND CONSERVATION

COURSE CONTENT AND STRUCTURE
The course begins with a field course in addition to core modules. Examples include:

- Ecological Survey Methods
- Issues in Conservation
- Univariate Statistics
- Multivariate Statistics.

You can then choose from a broad range of optional modules. Examples include:

- Biodiversity Conservation and Human Society
- Evolutionary Biology Conservation Genetics
- Statistics and Modelling for Scientists Using R
- GIS for Ecology and Environmental Management
- Practical Conservation and Work Experience
- Ecological Responses to Climate Change
- Restoration Ecology.

The second half of the year is spent on an individual research project, often overseas. Many of these studies result in peer-reviewed publications, and typically three to four dissertations are published from each year group. Examples of recent projects can be found at: www.uea.ac.uk/bio/pgt

You will be taught by conservation biologists and ecologists in the Schools of Biological and Environmental Sciences, with input from staff from a wide range of leading conservation organisations. Assessment is on the basis of coursework, practical field work, research skills and a major research project dissertation.

EMPLOYMENT PROSPECTS
This MSc programme provides in-depth exposure to global conservation issues, training in a broad range of skills and, importantly, opportunities to establish valuable contacts with potential employers in a range of national and international conservation organisations. Through short-term work experience, co-development and supervision of research projects, you will work directly with practising conservation biologists in the UK and throughout the world. Like many of our graduates you could go on to work in research, teaching, government institutes and national and international conservation organisations. Or you could go on to study for a doctoral research degree.

GRADUATE DIPLOMA IN ECOLOGY

COURSE CONTENT AND STRUCTURE
Two compulsory modules are chosen from: Population Ecology and Management; Community, Ecosystem and Macro-Ecology; and Biodiversity Conservation and Human Society.

Two additional options can be chosen from a list including: Aquatic Ecology; Behavioural Ecology; Conservation, Ecology and Biodiversity in the Tropics; Ecology Research Project; Environmental Politics and Policymaking; Evolutionary Biology; Field Ecology; Food Domestication and Sustainability; and Science Communication. Courses are taught through a combination of lectures, seminars and field work and assessment is in the form of coursework, presentations, projects and examinations.

This course also runs an optional two week field course module, which takes place immediately before the start of the autumn semester (in September). If you are an international student and wish to take this module, you will be required to arrive at UEA before the field course commences in order to complete your visa and registration checks.

EMPLOYMENT PROSPECTS
In addition to core skills in ecology, this course is designed to ensure you develop transferable skills such as statistical analysis, field work, science communication, information technology, teamwork, and critical writing and reasoning. Most students go on to complete MSc courses in biodiversity, ecology and/or conservation biology as a stepping stone to PhD researcher or employment in ecology or conservation.

FOR FURTHER INFORMATION
+44 (0) 1603 591515
admissions@uea.ac.uk
www.uea.ac.uk/bio

FEES AND FUNDING
Details of our tuition fees and scholarships can be found on the fees and funding sections of the course profiles at:
www.uea.ac.uk/bio/pgt
www.uea.ac.uk/study/pgt/scholarships

HOW TO APPLY
See page 56.

www.uea.ac.uk/bio/pgt

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MSc MOLECULAR MEDICINE
1 year full time

Massive steps forward in science, such as the completion of the Human Genome Project and the advent of stem cell technology mean that diseases can now be studied at the cellular and molecular level. This will help us to understand them, to develop treatments and possibly, in the future, find cures.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent) in life or physical sciences. Candidates without a relevant degree but with other experience, such as employment with a biomedical company or relevant research experience, will also be considered.

International students should refer to page 57 or our website for English language requirements.

WHO IS THE COURSE FOR?
If you are fascinated by the molecular and cellular mechanisms of disease and have ambitions to work in medical research, the pharmaceutical industry or the health services, this is the course for you.

The MSc in Molecular Medicine draws upon the world-renowned strength of research in biomedical sciences at UEA and across the Norwich Research Park. You will graduate ready to take your career to the next level.

COURSE CONTENT AND STRUCTURE
The first half of the course will be taught through face-to-face lectures, workshops, problem-based learning sessions and hands-on experiments in our modern biomedical laboratories. These modules will provide the opportunity to learn skills in data analysis, laboratory working and report writing.

The second half of the programme will include a major research project where you will design experiments and carry out research in a chosen topic. Your project will provide an invaluable training environment to enhance research skills. It will be a substantial piece of work drawing on knowledge and understanding gained from your taught modules.

Taught modules include:
- Genetics, Genomics and Bioinformatics
- Data Handling Linked to Molecular Medicine
- Frontiers in Molecular Medicine
- Medical Biotechnology and Host: Pathogen Interactions
- Modern Experimental Techniques in Molecular Medicine.

Examples of research projects include:
- Looking for molecules that target to improve anti-angiogenic and anti-tumourigenic therapeutic outcomes
- The dark side of autophagy: a barrier to gene delivery?
- The role of the primary cilium in sonic hedgehog signalling and embryonic myogenesis
- Hazard assessment of engineered nanocarriers using in vivo and in vitro toxicity studies
- In vitro screening of antimicrobial plant extracts tested against Escherichia coli.

EMPLOYMENT PROSPECTS
As well as learning fundamental theory, you will develop valuable transferable skills. You'll also benefit from personal development sessions on topics such as presentation skills, interview skills, employability and time management. After graduation you could go on to do a PhD in the UK or overseas, enter medical school or work in the biomedical sciences.

COURSE ASSESSMENT
Assessment is through a combination of exams, laboratory reports, coursework assignments, presentations and problem-based learning sessions. In addition, the research project will be submitted as a formal bound dissertation and assessed by external as well as internal examination.
MSc PLANT GENETICS AND CROP IMPROVEMENT

1 year full time, 2 years part time

Organised jointly with the world-renowned John Innes Centre, this programme provides a comprehensive insight into contemporary plant genetics and the theory and practice of crop improvement for the 21st century.

"The small group size and interactive lectures gave me a clear view of the industry I wanted to work in, preparing me with the genetics, research and organisational skills required, plus many more – the MSc has certainly been one of my proudest achievements yet!"

JOANNA HALLIWELL, PLANT BREEDER

ENTRY REQUIREMENTS

You should have or expect to obtain a good first degree (minimum 2:1 or equivalent) in biological sciences or plant biology. Applicants are required to submit two references with their application – at least one of these must be related to your most recent academic study. A full, detailed CV should also be included with the application. Candidates without a relevant degree but with other experience, such as employment with a plant breeding company or relevant research experience, will also be considered.

International students should refer to page 57 or our website for English language requirements.

WHO IS THE COURSE FOR?

If you wish to take your passion for plant molecular genetics to the next level or aspire to a career in plant breeding and crop improvement this could be the course for you.

COURSE CONTENT AND STRUCTURE

The course focuses on current plant breeding practices and the application of new knowledge emerging from basic research in plant biology. The course is further enhanced by teaching from practising plant breeders, and visits to local breeding companies including Floranova.

Module examples include:
- Plant Breeding
- Genetics, Genomics and Bioinformatics
- Plant Genomics and Biotechnology
- Target Traits for Crop Improvement
- Statistics for Plant Science
- Practical Skills in Plant Molecular Genetics
- Research Project Plan
- Laboratory Research Project.

EMPLOYMENT PROSPECTS

Like many of our past graduates you could go on to a higher degree across the Norwich Research Park and beyond in the area of plant biology or crop improvement. Alternatively you could go on to a successful career as a plant breeder in multinational and local plant breeding companies.

There are a huge variety of external speakers. This means plenty of chances to create contacts from different research institutes and from relevant companies, which is vital when moving on from education. The course also offers a six-month lab project with research groups at the JIC and UEA, both of which are held in high esteem nationally and worldwide. Trips to companies and events such as Elsom’s Seeds, RAGT Seeds, KWS and NIAB complement the research side and give insight into the more applied roles available.
As one of the first disciplines to be established at the University, the School of Chemistry has always maintained its position as one of the leading research centres in the UK, while retaining a friendly, open and relaxed environment.
WHY CHOOSE US?

Chemistry at UEA provides a friendly, dynamic environment in which you can perform outstanding research. Studying chemistry at postgraduate level at UEA will prepare you for a career in a range of major industries including pharmaceuticals, plastics, healthcare, agrochemicals, education, science media and energy production. You will join our graduates who are applying their skills in laboratories worldwide at the forefront of topics as diverse as organic synthesis, theoretical chemistry, chemical biology, atmospheric science, security and medical imaging to name but a few.

SUPPORTIVE ENVIRONMENT

At UEA you’ll benefit from a support network tailored to your individual requirements. You will be assigned an adviser who will provide guidance for your academic career. Your adviser will usually be your research project supervisor, with whom you will have frequent contact. In addition to your day-to-day interactions with your supervisor, you’ll have a supervisory team which includes at least one other academic. You’ll meet with that team several times a year to discuss your progress and you can turn to any member of your team for support at any time. You’ll also be able to take advantage of our year-long seminar programme providing you with the opportunity to meet with visiting scientists. Plus, we run an annual research day giving you the chance to present your work and discuss it with the whole School.

OUTSTANDING RESEARCH

We are one of the top 10 Schools of Chemistry in the country, according to the recent Research Excellence Framework (REF2014) with 98% of our research classified as world-leading or internationally excellent. Our research quality was also ranked in the top five. The creativity, resourcefulness and authority fostered by first-class research feeds directly into the quality of our postgraduate taught courses. Our research work is financed by multi-million pound grant holdings, won competitively from sources such as the National Research Councils, the Royal Society, charitable trusts (including Wellcome and Leverhulme Trusts and the Wolfson Foundation), industrial companies and the European Union. Key research in the School includes biological, synthetic, materials, nanoscience and forensic chemistry.

Chemistry of Light and Energy

The Chemistry of Light and Energy theme brings together researchers working in areas connected to experimental and theoretical studies involving light and energy transfer. These range from the photodynamics of light activated proteins and light harvesting/electronic energy transfer, through to the development of new materials with applications in energy capture/conversion from the sun and next generation LEDs.

Chemistry of Materials and Catalysis

Under the Chemistry of Materials and Catalysis theme, research is focused on the synthesis of novel molecules and materials, including organometallics, organics, coordination complexes, liquid crystals, supramolecular assemblies and nanomaterials. Collectively, these have potential applications in a hugely broad range of areas such as next generation energy materials (new types of batteries), security (authentication), medicine (drugs and drug delivery), chemical sensing and many more.

Chemistry of Life Processes

Research under the Chemistry of Life Processes theme applies state-of-the-art technologies in areas such as biophysical chemistry, theoretical simulation, protein engineering and genetic programming to understand a wide range of biological processes and to develop synthetic biology approaches towards novel applications of biological systems. Systems under study include the roles of metals in life, nitrogen cycle enzymes, multiheme cytochromes, membrane transporters, protein-protein interactions and unnatural amino acids.

We pride ourselves on our collaborative spirit. This has led to strong interactions not only across the three principal themes, but also with the School of Pharmacy, the other Science Schools, and the research institutes on the Norwich Research Park.

For more information on our research and current research opportunities visit: www.uea.ac.uk/che/research
MSc ADVANCED ORGANIC CHEMISTRY

1 year full time

Organic chemistry is the central discipline that drives innovation across many diverse areas of the science and technology industry. The demands of contemporary research are such that advanced training beyond honours degree level is becoming increasingly necessary. If you wish to develop your knowledge and skills to prepare for PhD study or employment in industry, this course is ideal.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent) in chemistry or a related science degree. We are always happy to discuss your suitability for this course.

International students should refer to page 57 or our website for English language requirements.

COURSE CONTENT AND STRUCTURE
The course runs over a full calendar year and begins with small group lectures, seminars and problem-solving classes alongside advanced laboratory exercises designed to familiarise you with the research environment and train you in modern synthesis and spectroscopic techniques. The taught programme will introduce you to areas of advanced organic chemistry relevant to tackling issues of current industrial and academic priority including:

- Synthesis and synthetic strategy
- Organic structure elucidation
- Natural products
- Physical organic chemistry
- Catalysis.

The programme centres on a substantial research project following completion of the initial advanced laboratory exercises. You will join an active research group and carry out original research in purpose-designed laboratories, presenting your work in an individual dissertation. Research projects can be collaborations across groups, and you can choose to include work on new synthetic methods, asymmetric synthesis and catalysis, natural products, bio-organic chemistry, organic materials and organometallic chemistry.

Recent projects include:
- Palladium catalysed reactions of allenes in organic synthesis
- Asymmetric organocatalysis
- Complex molecular materials based on porphyrins
- Synthesis of aziridines and application to natural product synthesis
- Adding value to natural resources through synthetic functionalisation
- Organometallic catalysis using metallocenes.

EMPLOYMENT PROSPECTS
The knowledge and skills you gain from this course mean you'll be equally well placed to pursue a career in industry or to continue academic research. You could follow past graduates by going on to study for a PhD, then enter academic careers, or by working in industry.

COURSE ASSESSMENT
You will be assessed on your coursework, presentation and research project dissertation.

GRADUATE DIPLOMA IN CHEMICAL SCIENCES
If you have studied a science degree but with chemistry content below that expected for UK MSc Chemistry courses, our Graduate Diploma is a great route into chemistry. Your programmes can be individually designed by selecting modules from the undergraduate programme. And you will graduate ready for further postgraduate study in chemistry.

FOR FURTHER INFORMATION
+44 (0) 1603 591515
admissions@uea.ac.uk
www.uea.ac.uk/che

FEES AND FUNDING
Details of our tuition fees and scholarships can be found on the fees and funding tab of individual course profiles at:
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www.uea.ac.uk/study/pgt/scholarships

HOW TO APPLY
See page 56.

www.uea.ac.uk/che/pgt

PROFESSOR ANDREW CAMMIDGE, COURSE DIRECTOR

“\This intensive course has evolved over many successful years to keep up with the changing demands of modern research. Graduates have a superb record of achievement, securing a wide range of industrial and academic positions.”

PROFESSOR ANDREW CAMMIDGE,
COURSE DIRECTOR
For more than 40 years we have taken pride in our research-led teaching. We combine a practical hands-on approach with the latest theories. You will enjoy excellent facilities and exciting course modules. You will also benefit from dynamic programmes aimed at rapidly growing sectors of the job market.
WHY CHOOSE US?
- Be part of highly acclaimed research. 85% of our research is rated as world-leading or internationally excellent in the 2014 Research Excellence Framework (REF2014)
- Take advantage of our high-quality facilities including a specialised computer graphics and haptics laboratory, motion capture equipment, 3D printing and electronics hardware, all with cutting-edge resources
- Benefit from Master’s programmes that are accredited by the BCS, and The Chartered Institute for IT (excluding the MSc in Computing Science). For further information see www.uea.ac.uk/study/accred
- Enjoy the chance to collaborate with industry through projects
- Study in a School with an international reputation for research in machine learning, statistics, computer vision, colour vision, computer graphics, speech processing, virtual humans, bioinformatics and computational biology.

EMPLOYMENT PROSPECTS
Your MSc will give you an extra edge and after graduation you will be in high demand by employers in computing and technology. The job market is excellent and salaries are among the highest university graduates can expect. You will leave us ready for a successful career in anything from industry, government and consultancy to education and research. The majority of our postgraduate taught students are in graduate-level employment within three months after completing their degree.

RESEARCH AREAS
Our research is organised into three laboratories and each one is headed by a professor of international standing:
The Graphics, Vision and Speech Laboratory addresses problems that range over analysis, recognition and generation of both images and speech. These technologies have common theoretical foundations, and are integrated in our research on lip-reading, audio-visual speech synthesis and avatars. Our laboratories are equipped with fast graphics computers, spectrometers, 3D displays, haptic devices, a soundproof recording booth and an eight camera video-based motion capture system. Recent notable successes include the development of the leading colour constancy and white balancing algorithms which have been implemented in a commercial camera and state-of-the-art lip-reading systems. The group has spun out companies in the areas of image processing for art, colour image processing and water leak detection.
The Computational Biology Laboratory focuses on research spanning the biological hierarchy, from genome through to ecosystem. The laboratory provides an interdisciplinary environment for research and education, specialising in the computational and mathematical sciences. Areas of research include biological pattern recognition, protein structure, imaging, RNA bioinformatics, growth and development, phylogenetics, medical bioinformatics and systems biology. In addition to carrying out internationally-leading research with national and international partners, the laboratory has strong links with the School of Biological Sciences, the John Innes Centre, the Quadram Institute, The Sainsbury Laboratory, The Earlham Institute and the Norfolk and Norwich University Hospital.
The Machine Learning and Statistics Laboratory combines researchers from machine learning, data mining, statistics and software engineering. Members are developing analysis approaches for “Big Data” processing, linkage, model selection and analysis, aimed at large and complex social and health databases and real-time data. They also analyse real time and historical data to support software development. The work is funded by ESRC as part of the Local Government and Business Big Data Research Centre. This partnership, led by the University of Essex with UEA and the University of Kent, will place the three universities at the forefront of the UK’s Big Data network. The group also has a long-standing collaboration with Aviva and is funded by the EPSRC to conduct research into time series classification. Algorithms they have recently developed are currently the best known in the world at this particular task and are being applied in collaboration with the Quadram Institute, Imperial College and the Vermont Energy Corporation to a range of real-world problems, with the potential for genuine societal and economic impact.

For more information on our research and current research opportunities visit: www.uea.ac.uk/cmp/research
MSc ADVANCED COMPUTING SCIENCE
1 year full time, 2 years part time

If you want to study a range of advanced computer science topics, including advanced programming, distributed computing, artificial intelligence, embedded technology, machine learning and many more subjects, work with the latest technology and value flexibility, this could be the postgraduate course for you.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent) in computing science or have a significant computing background. Other degrees may be considered if they are supported by substantial relevant work experience. We are always happy to discuss your suitability for this course.

International students should refer to page 57 or our website for English language requirements.

COURSE CONTENT AND STRUCTURE
The full-time course runs over a full calendar year. The part-time alternatives enable you to study one or two modules per semester, depending on your work commitments and available time.

With help from your academic adviser, you can choose your modules from a wide range. This will allow you to build either a more versatile or more focused and specialised programme, fitting your interests and needs. You can choose from themes such as software engineering and systems development, computer multi-media technologies (graphics, vision and speech), games development and distributed computing and more.

Compulsory module examples:
- Research Techniques
- Advanced Programming Concepts and Techniques
- Dissertation.

Optional module examples:
- Systems Engineering Issues
- Human Computer Interaction
- Distributed Computing
- Modern Embedded Technology
- Computer Vision
- Computer Graphics
- Audio and Visual Processing
- Internet and Multimedia Techniques
- Artificial Intelligence
- Data Mining
- Information Visualisation.

DISSERTATION PROJECTS
Recent dissertation projects include:
- Computerised lip-reading in non-English languages
- Brain connectivity in deaf and hearing individuals
- Modelling of fluids in a virtual environment
- Developing a recommendation system for environmental monitoring
- Sentiment classification of text messages on social media (Twitter and/or blogs).

EMPLOYMENT PROSPECTS
After completing this course, you will be equipped with advanced knowledge and skills in one or more areas, depending on your specialisation. You will graduate ready for a successful and paid career in any of a number of fields, such as consultancy, software development, system analysis or IT project management. According to IT Job Watch (March 2017), average salaries for developer, consultancy or project management jobs are in the range of £40,000-£60,000. The programme is research led and may provide an opportunity to continue studies in research.

COURSE ASSESSMENT
Assessment is on the basis of coursework and exams (for a few modules) and a research project dissertation. Coursework can take the form of study on a designated topic, programming assignments and group development projects. It can be assessed by writing a technical report, course tests, oral presentations and/or demonstrations.
MSc COMPUTING SCIENCE

1 year full time, 2 years part time

If you are a graduate from a non-computing subject who aspires to study computer technologies and skills, the MSc Computing Science course is designed for you. We will prepare you to become a multi-disciplined professional capable of fulfilling diverse roles in many fields of computing.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent) in any subject other than computer science or information technology. You are welcome to contact us to discuss your suitability for this course.

International students should refer to page 57 or our website for English language requirements.

COURSE CONTENT AND STRUCTURE
The full-time course runs over a full calendar year. The part-time alternatives enable you to study one or two modules per semester.

You will gain core skills in programming, databases, internet technology and research techniques before going on to choose from a range of optional advanced modules.

Compulsory module examples:
- Research Techniques
- Dissertation.

Essential module examples:
- Applications Programming
- Database Manipulation
- Internet and Multimedia Technology.

Optional module examples:
- Systems Engineering Issues
- Artificial Intelligence
- Data Mining
- Distributed Computing
- Information Visualisation
- Applied Statistics
- Computer Vision
- Modern Embedded Technology.

DISSERTATION PROJECTS
Recent dissertation projects include:
- Machine learning ensemble methods for big data mining
- Mobile app development – real-time public transport information systems
- Developing a web application to enable simple multiplayer games
- Developing a data warehouse for managing patient records and clinical data
- Smart meter analysis for non-intrusive electricity load monitoring
- Predicting the results of tennis matches in real time
- Analysis of Google trends/correlate data to discover public health events.

EMPLOYMENT PROSPECTS
As computers have become ubiquitous, there is an increasing demand for multi-disciplined professionals in the job market. After completing this course in combination with your first degree, you will have more flexibility and a greater range of skills than single-discipline graduates. You’ll be able to choose from any number of highly paid roles such as software developer, systems analyst, IT manager, project leader or manager, or other roles that entail combinations of knowledge and skills from your first degree and computing. The programme will also prepare you for a further research degree in computing science and related areas.

COURSE ASSESSMENT
Assessment is on the basis of coursework, exams and a research project dissertation. Coursework is varied and interesting and can take the form of writing technical reports, programming assignments, presentations, group projects, course tests or data analysis tasks.

“The skills and confidence I gained from the MSc Computing Science course prepared me to take on new challenges and helped me to land a good job with China Mobile, the world’s biggest mobile service operator.”

SA XIAO, MSc COMPUTING SCIENCE GRADUATE

“I started the MSc Computing Science after studying philosophy; I had no background in mathematics or computing. The course covers programming, databases, and web technologies, as well as allowing flexibility in the choice of optional specialised modules.”

JON HILL, MSc COMPUTING SCIENCE GRADUATE

FOR FURTHER INFORMATION
+44 (0) 1603 591515
admissions@uea.ac.uk
www.uea.ac.uk/cmp

FEES AND FUNDING
Details of our tuition fees and scholarships can be found on the fees and funding tab of individual course profiles at:
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www.uea.ac.uk/study/pgt/scholarships

HOW TO APPLY
See page 56.

www.uea.ac.uk/cmp/pgt
MSc INFORMATION SYSTEMS
1 year full time, 2 years part time

If you are driven by a desire to learn about the role of information systems in contemporary organisations, this specialised MSc programme is for you. The course covers topics from requirements analysis, data analysis and the management of the software process, to usability issues and systems development.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent) in computer science, information systems or equivalent qualifications with high computing content. We are always happy to discuss your suitability for this course.

International students should refer to page 57 or our website for English language requirements.

COURSE CONTENT AND STRUCTURE
The full-time course runs over a full calendar year. You will take a mixture of compulsory and optional taught modules. The optional modules complement these and allow you to specialise in human centred or analytical aspects of information systems. The options to study internet law and privacy issues add a further dimension to the course, integrating current legal concerns with technical developments in the area.

Compulsory module examples:
– Research Techniques
– Dissertation.

Optional module examples:
– Systems Engineering
– Human Computer Interaction
– Database Manipulation
– Internet and Multimedia Technologies
– Information Visualisation
– Data Mining
– The Protection and Management of Privacy and Reputation
– Internet Law and Governance.

You will benefit from our excellent links with a range of organisations, who provide us with guest speakers, case studies and examples. Recently we’ve welcomed speakers on topics such as a developer’s perspective on mobile app development, a large company's experiences of outsourcing and a usability evaluation for an international HR and survey company. These links give you access to expertise and experience of current issues and concerns from practitioner and user perspectives.

RESEARCH PROJECTS
Recent projects include:
– Social media usability
– Mobile survey tools
– e-Government usability
– Cultural differences and systems usability evaluation
– Barriers to e-commerce development.

EMPLOYMENT PROSPECTS
You will graduate fully prepared for a successful career in information systems development and management or in the wider area of business intelligence. You'll be in demand for jobs such as: systems analyst, business intelligence analyst, user experience specialist and consultant. These are all growth areas where well-qualified graduates have a range of interesting (and well-paid) opportunities all around the world. You'll also be well placed to undertake a further research degree in the field.

COURSE ASSESSMENT
Assessment is on the basis of coursework, exams (for selected modules) and a research project dissertation. Coursework is varied, including presentations, case studies, behavioural observation, experimental projects, data analysis and essays. Many of the case studies, usability evaluations and other assignments arise from collaborative work we do with other organisations.

Flexible part-time options mean you can undertake the degree on day release from a full-time job.
MSc KNOWLEDGE DISCOVERY AND DATA MINING

1 year full time, 2 or 3 years part time

If you are passionate about the role of data in modern business, its collection, maintenance, access and analysis, this specialised MSc programme is for you.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent) in computer science, mathematics or other relevant disciplines. Other degrees may still be considered if they are supported by substantial relevant work experience. We are always happy to discuss your suitability for the programme.

International students should refer to page 57 or our website for English language requirements.

COURSE CONTENT AND STRUCTURE
The full-time course runs over a full calendar year. The part-time alternatives enable you to study one or two modules per semester. You will take a mixture of compulsory and optional taught modules. The compulsory modules cover essential data analysis skills. The optional modules give you the opportunity to update your computing skills.

Compulsory module examples:
- Artificial Intelligence or Visualisation
- Data Mining
- Applied Statistics.

Optional module examples:
- Database Manipulation
- Human Computer Interaction
- Application Programming.

RESEARCH PROJECTS
Recent research projects include:
- Data mining analysis to understand cross-purchasing patterns (with Virgin Money)
- Analysis of students’ performance and employability (with the UEA Business Intelligence Unit)
- Classification of hand radiographies and bone outlines
- High content and high throughput bio-image analysis (with The Sainsbury Laboratory)
- Text mining analysis of survey data (with the Norfolk Police and Crime Commissioner’s Office).

EMPLOYMENT PROSPECTS
You will gain skills and knowledge that are highly valued in an extremely diverse range of areas, including finance, medicine, biology and the environment. You will graduate ready for a successful career in data mining and in the wider area of business intelligence. You’ll be in demand for jobs such as data analyst, data scientist, data miner, business intelligence developer and consultant. Data science is a new area experiencing exponential job growth. This means there is a shortage of skilled data scientists. According to IT Jobswatch (March 2017) data mining jobs have average salaries in excess of £55,000. The programme will also prepare you for a further research degree in knowledge discovery and data mining.

COURSE ASSESSMENT
Assessment is on the basis of coursework, exams (for selected modules), and a research project dissertation. Coursework is varied and interesting and can take the form of essays, programming assignments, presentations, group projects, course tests or data analysis tasks.
“As an international student, settling in at UEA was easy. From the beautiful location and artistic campus structures, to the various learning-enhancement resources available and the 24/7 library facility, the academic and social environment is enjoyable to everyone.”

TOLU OGUNDARE, MSc GRADUATE
WHY CHOOSE US?
- Take advantage of our strong links with the 400 member companies of the East of England Energy Group and Skills for Energy
- Gain industry experience when you spend up to three months in a company working on an industrial project
- Increase your commercial awareness and experience from day one of your degree, when you present your team’s ideas to an invited panel of experts
- Up-to-date industry information and case studies thanks to visiting lecturers who are practising engineers
- A pool of scholarships available annually
- Take part in site visits to consultancy offices, power stations and energy manufacturers’ process plants
- Experience new teaching laboratories that support and enhance your learning
- Enjoy a packed social calendar through the student-led Engineering Society.

ENGINEERING AT UEA
Engineers are in huge demand nationally and internationally. We launched a new engineering unit within the School of Mathematics in 2011 and since then we have been establishing high-quality research groups and a suite of engineering undergraduate and postgraduate programmes to support that rapidly growing demand.

The growth of provision in engineering in subjects such as electronic and electrical, mechanical and other engineering disciplines, is stimulating a lot of interest across the country. There are opportunities for exploiting the industrial links with industry-sponsored research focused on energy-related challenges associated with onshore and offshore developments.

ENERGY ON CAMPUS
With our reputation for low energy buildings, and our on campus expertise, UEA is an ideal place to study energy engineering. The University has been at the forefront of low energy building procurement and operation for more than 20 years. We won the first ever Low Energy Building of the Year Award in 2005 for the Zuckerman Institute for Connective Environmental Research building. And our new Enterprise Centre building achieved Passivhaus certification, BREEAM Outstanding and ultra-low embodied carbon and is a benchmark for sustainable design. As a UEA postgraduate engineering student, you will benefit from a wealth of low energy building expertise through our on campus energy networks.

TEACHING
The MSc in Energy Engineering with Environmental Management was created as a direct response to a shortage of postgraduates in the energy industry.

You will be taught by staff across the Faculty, as well as honorary and visiting lecturers with specific industrial experience. You can also take full advantage of engineering laboratory provision for fluid mechanics, structures, materials, thermodynamics and electrical and electronic engineering. You will have access to an extensive collection of books and major journals via the School and University libraries. And you will benefit from an excellent range of computing facilities as well as a state-of-the-art high-performance computing cluster.

INDUSTRY INTERACTION
You will benefit from significant industry involvement including case studies, site visits, breakfast meetings, attendance at energy conferences and networking events, and donations for equipment and prize funds. You’ll also be supported in work-based placements and project work. The Industrial Advisory Board consists of a number of senior professional engineers who meet regularly to support the School in ensuring you are taught the latest industry thinking.

RESEARCH
Our research strengths reflect developments in energy engineering. They include solar energy, bioenergy, energy in the built environment, energy engineering, energy economics and finance, energy meteorology, energy policy, energy in the climate system, renewables, fossil energy and carbon capture and energy materials.

For more information on our research visit: www.uea.ac.uk/eng/research
“UEA’s unique course addresses a real need in today’s corporate world. Energy management professionals need to be as comfortable in the boardroom discussing environmental impacts and sustainability as they are in a plant room driving efficiency with modern technology. Being qualified in both areas represents a tremendous opportunity for students.”

GREG LUXFORD, FORMER DIRECTOR AND INDUSTRIAL ADVISORY BOARD MEMBER
**MSc ENERGY ENGINEERING WITH ENVIRONMENTAL MANAGEMENT**

1 year full time

Whether you have completed a scientific first degree and are looking to develop career opportunities in a different and vibrant field, or you have completed a BEng and wish to secure your path to chartered engineer status, this degree is for you.

**ENTRY REQUIREMENTS**
You should have, or expect to obtain, a good first degree (minimum 2:1 or equivalent) in a relevant subject and a solid grounding in mathematics or equivalent to at least UK A level. If you are unsure about the suitability of your mathematics qualifications please contact us for further guidance.

International students should refer to page 57 or our website for English language requirements.

**COURSE CONTENT AND STRUCTURE**
Through a combination of compulsory and optional modules you will learn a range of important concepts. Lectures will be brought to life through site visits. And you’ll discuss famous case studies in order to address topics such as health and safety risk management, professional ethics and engineering responsibility. Once your confidence is built through networking with industry professionals at East of England Energy Group (EEEGR) conferences, you will have the opportunity to present your work to a variety of audiences. And by working on industry data you will develop those all important spreadsheet skills.

A range of transferable skills from intense teamworking, through challenging mathematical and spreadsheet applications, to concise technical writing will prepare you for the world of engineering work. The dissertation often involves a work placement and provides that much-needed industry experience essential in today’s job market.

Compulsory modules span the range of key renewable and non-renewable sources and include preparatory material in mathematics, thermodynamics, fluid mechanics, electronics and electricity, wind energy, commercial risk and other sectors.

A selection of optional modules includes the study of environmental sciences, environmental assessment, marine renewables, solar, nuclear, energy materials and opportunities to develop programming skills.

A compulsory dissertation completed after the taught modules allows you to apply your new knowledge in a real-world context.

**PROFESSIONAL DEVELOPMENT**
You’ll have the opportunity to network throughout your studies, at conferences and exhibitions, breakfast meetings, gala dinners, site visits and branch meetings.

**PROFESSIONAL ACCREDITATION**
The UK Energy Institute has accredited our courses as meeting the academic requirements of the Engineering Council (UK) for further learning towards registration as a Chartered Engineer (CEng). For further details see www.uea.ac.uk/study/accred. We therefore welcome applications from graduates with Incorporated Engineer (IENG) accredited Bachelor’s degrees wishing to develop their career towards CEng.

UEA is an Affiliate Member of the Energy Institute which allows our students free membership and a free energy sector magazine.

**EMPLOYMENT PROSPECTS**
As a UEA engineering graduate you will be uniquely placed to use your energy engineering expertise in design and management roles throughout the sector.

Our graduates are much sought after by local and regional companies for their energy knowledge and their transferable skills. Opportunities for networking through the EEEGR, the professional institutions and the Norwich Engineering Society help students to secure jobs.

“**The course allowed me to develop knowledge from my undergraduate degree into skills required by industry, providing a route into employment in the energy sector.”**

PETER KERRISON, MSc GRADUATE
Due to the consequences of global environmental change, including climate change, societies will increasingly need individuals who understand the challenges of sustainable development and who have the experimental, numerical and verbal skills necessary to engage critically in these debates. Choose postgraduate study at UEA and you will graduate with the skills and experience to meet that need.
Established more than 50 years ago, the School of Environmental Sciences was one of the first departments of environmental sciences in the world. We developed a novel approach by bringing together physical and social scientists to study the natural and human environment and their interactions. This approach to understanding the environment is now regarded as part of the mainstream in academia. We are one of the largest Environmental Sciences Schools in the UK and our academics are at the forefront of research into global and local environmental change, working across all elements of the Earth’s system, to help societies around the world better maintain their environment.

WHY CHOOSE US?
- Benefit from the excellent teaching and research environment created by our staff and around 470 undergraduates, 50 Master’s and 140 PhD students
- Learn from and interact with staff that are involved in understanding and minimising impacts of the immense challenges our planet faces (such as increasing demands on energy, transport and technology, climate change, eroding biological diversity and natural hazards)
- Learn from the wide variety of modules covering earth, atmosphere and oceans, and ecological, physical and social sciences
- Experience our holistic approach of doing environmental sciences by integrating several academic disciplines
- Take advantage of our strong links with local companies in the East of England and to national and international governmental and non-governmental organisations

We offer three MSc degrees; a broad-based Environmental Sciences degree and more specialised programmes in Climate Change and Environmental Assessment Management. Choose the MSc Environmental Sciences and you can select from a wide range of modules across the full breadth of environmental sciences or opt to follow one of two pathways on specific aspects of sustainability: Science, Society and Sustainability or Ecology and Economics for Sustainability.

OUR TEACHING
We are a large School, with around 80 Faculty and Research Fellows. You will learn through a mixture of lectures and practical classes in seminars, labs and in the field, with typically 15-18 hours contact time a week. A third of your assessment will be related to a major research project.

OUR RESEARCH AND FACILITIES
Our research addresses three overarching themes, namely: climate, ocean and atmospheric interactions; the governance of resources and sustainability; and geosciences and natural hazards.

Our research has major global influence. Results of the Research Excellence Framework (REF2014) ranked us first in the UK for research impact with 88% of research ranked world leading or internationally excellent. This is further exemplified by the QS World University Rankings 2017 where our citations score is seventh in the world and bettered by only one other university in Europe. Furthermore, no other university has made as substantial a contribution to the Intergovernmental Panel on Climate Change (IPCC) as UEA. Our research is underpinned by excellent, well-funded facilities including the recent additions of a sea glider facility and a sea-ice chamber. Our facilities provide many opportunities for your research projects.

CAREERS AND EMPLOYABILITY
Whichever of our MSc degrees you choose, it will be intrinsically linked to employability and putting theory into practice. The School of Environmental Sciences has well-established links with some of the biggest industry names, who work alongside us in ensuring you are ready for the job market.

You will graduate with excellent career prospects. You could follow our past graduates to go on to work in environmental management and conservation, local and central government agencies, environmental consultancy, weather forecasting, government and university research, geophysical services, the energy sector, oil industries and the water industry. Alternatively you could follow in the footsteps of the large proportion of our MSc students who go on to study for a PhD.

For more information on our research visit: www.uea.ac.uk/env/research
For our research degree opportunities visit: www.uea.ac.uk/env/research-degrees
MSc ENVIRONMENTAL SCIENCES
1 year full time, 2 years part time

If you are seeking to gain greater in-depth training in environmental sciences, this interdisciplinary course is for you. The programme allows you to choose from several areas of expertise including earth sciences, atmospheric sciences, oceanography, ecological sciences, and social sciences.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent). This could be in geography, earth sciences, and environmental sciences or related disciplines. The course is also suitable for graduates with single-discipline degrees in chemistry, physics, biology, mathematics, computing, engineering, economics and politics.

International students should refer to page 57 or our website for English language requirements.

COURSE CONTENT AND STRUCTURE
The full-time option of the course runs for one year starting in September. You will take a combination of taught modules during the autumn and spring semesters with the summer spent on an individual research project. In addition to core modules, you will be able to choose from a broad range of optional modules. The part-time course option runs for two years with the Research Skills module in the first year and the Dissertation module in the second. The same number of optional modules as in the full-time option is spread over two years.

You will be taught by environmental, climate and social scientists in the School of Environmental Sciences, with contributions from leading policy and industry experts.

Compulsory module examples:
- Climate Change: Physical Science Basis
- Science, Society and Sustainability
- Research Topics in Earth Science
- Environmental Assessment Effectiveness
- Theory of Environmental Assessment
- Energy and Climate Change
- Statistics and Modelling for Scientists Using R
- Sustainable Consumption
- Atmospheric and Oceanic Composition: Measurement and Modelling
- Stable Isotope Geochemistry
- Modern Methods in Air Pollution Science
- Geoengineering the Climate: Science and Society
- Natural Resources and Environmental Economics
- Oil and Gas Engineering
- Wave, Tidal and Hydro Energy Engineering.

Optional module examples:
- Modelling Environmental Processes
- Evidence-Based Global Conservation
- GIS and its Applications for Modelling Ecological and Environmental Change

RESEARCH PROJECTS
Recent research projects include:
- Hydrocarbon degradation efficiency of selected bacteria isolates from contaminated soil samples using solid culture media
- Estimate the short-term exposure all-cause mortality by PM2.5 and PM10 data seasonally in Beijing urban and suburb area
- Elucidating the physiological role of rhodopsin proton pumps in marine dinoflagellates
- The impact of economic, social and environmental factors on the sensitivity of children to the allergen Ambrosia Artemisiifolia (common ragweed) in Croatia.

EMPLOYMENT PROSPECTS
The MSc in Environmental Sciences will offer you a range of subjects to choose from and a wide array of career options, both in postgraduate research and vocational employment.

FOR FURTHER INFORMATION
+44 (0) 1603 591515
admissions@uea.ac.uk
www.uea.ac.uk/env

FEES AND FUNDING
Details of our tuition fees and scholarships can be found on the fees and funding tab of individual course profiles at:
www.uea.ac.uk/env/fee
www.uea.ac.uk/study/pgt/scholarships

HOW TO APPLY
See page 56.

www.uea.ac.uk/env/pgt

“The course met all my expectations and more – teaching staff are knowledgeable, committed and enthusiastic, going out of their way to help students reach their potential. The course is challenging and varied, with a range of modules that teach and develop scientific skills, plus a dissertation which is a great opportunity to pursue a new interest with the support of world-class researchers.”

CECILIA LISZKA, MSc ENVIRONMENTAL SCIENCES STUDENT 2013-14, NOW A UEA PHD STUDENT

www.uea.ac.uk/env/pgt
MSc ENVIRONMENTAL SCIENCES
(SCIENCE, SOCIETY AND SUSTAINABILITY)
(ECOLOGY AND ECONOMICS FOR SUSTAINABILITY)
1 year full time, 2 years part time

Our students have the flexibility to choose which MSc pathway suits them. In addition to the standard MSc in Environmental Sciences, we offer a further two pathways within this MSc course. At the start of the course you can decide to enrol on the standard MSc or one of the two pathways.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent). This could be in geography, earth sciences, environmental sciences or related disciplines. The course is also suitable for graduates with single-discipline degrees in chemistry, physics, biology, mathematics, computing, engineering, economics and politics.

International students should refer to page 57 or our website for English language requirements.

To meet the demand for training in the skills required to address the challenges of sustainability, and recognising the research strengths that we have in this field, we have developed two pathways on this topic through our MSc in Environmental Sciences:

– Science, Society and Sustainability

Each of these pathways focuses on a particular aspect of sustainability, whilst still applying an interdisciplinary approach.

SCIENCE, SOCIETY AND SUSTAINABILITY

WHO IS THE COURSE FOR?
If you are interested in working or researching in the field of sustainability across a range of governance levels, local, regional, national and international, this is the pathway for you. It is designed to provide you with the advanced level skills needed to address the sustainability challenges you’ll meet when working in the public sector, NGOs or business. It is also geared towards research-orientated students keen to develop their skills and explore processes of social change, science and sustainability in a world-leading research group, Science, Society and Sustainability (3S).

PATHWAY CONTENT AND STRUCTURE
Compulsory module examples:
– Science, Society and Sustainability
– Sustainable Consumption
– Research Skills
– Dissertation.

Optional modules come from the range of modules offered for the MSc Environmental Sciences, see page 39.

RESEARCH PROJECTS
Projects are carried out within the world-leading research group 3S or with sustainability-orientated organisations, offering academic research experience in the field, and providing you with a track record of working in the sector.

EMPLOYMENT PROSPECTS
You will graduate with a wide range of diverse career options in public, private and third sector organisations working for sustainability at local, regional, national and international scales. The course will also provide excellent training for a research career in academia or other sectors. You will gain the skills required for: designing and implementing sustainability initiatives; social research; survey design; social marketing; environmental reporting; participatory research; facilitation of public and stakeholder engagement; risk communication and environmental education.

ECOLOGY AND ECONOMICS FOR SUSTAINABILITY

WHO IS THIS COURSE FOR?
If you are looking to deepen and enhance your knowledge and skills on natural resources and sustainability, or wish to develop a research career in the management of natural resources, this is the pathway for you.

You will benefit from advanced level teaching aimed at assessing scientific evidence that supports sustainable management of natural resources, developing an understanding of the economic, social, political and legal frameworks for sustainability, and identifying future priorities for sustainable management of natural resources.

PATHWAY CONTENT AND STRUCTURE
Compulsory module examples:
– Evidence-Based Global Conservation
– Natural Resources and Environmental Economics
– Research Skills
– Dissertation Project.

Optional module examples: These can be chosen from the range offered for the MSc Environmental Sciences on page 39.

RESEARCH PROJECTS
You can receive supervision from world-leading experts in ecology and environmental economics. This includes staff from the Centre for Social and Economic Research on the Global Environment (CSERGE), a leading interdisciplinary research centre in the field of sustainable development and decision making.

EMPLOYMENT PROSPECTS
You will graduate with a range of skills such as GIS, experimental design, economics and ecosystem services. You’ll also have experience of case studies on the management of natural resources such as fisheries, forestry and game species.
Climate change and variability have played major roles in shaping human history. The prospect of global warming as a result of human activities will present society with increasing challenges over the coming decades.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent). This could be in geography, earth sciences, environmental sciences or related disciplines. The course is also suitable for graduates with single-discipline degrees in chemistry, physics, biology, mathematics, computing, engineering, economics and politics.

International students should refer to page 57 or our website for English language requirements.

WHO IS THE COURSE FOR?
If you are looking to gain in-depth, interdisciplinary knowledge of climate change science, society and policy, this course, based at the Climatic Research Unit in the School of Environmental Sciences is for you. This course will provide you with an authoritative assessment of the subject, including recent climate history, present-day variations and climate prediction, the ways in which climate change may impact on the environment and society, and the interplay between climate science, energy and policy development. Its temporal focus spans the last 2,000 years through to the 21st century, with particular emphasis on contemporary issues.

COURSE CONTENT AND STRUCTURE
You will cover the fundamentals of the changing climate, including the Earth’s energy balance, causes of climate change and variability and the greenhouse effect. You will also learn about research methods, consisting of empirical approaches to climate reconstruction (such as tree ring analysis), data preparation and analysis, detection of anthropogenic changes and model-based approaches to climate prediction. You will study the evidence and causes of recent climate change, including the atmospheric build-up of greenhouse gases and its consequences for the behaviour of the Earth’s system.

You will learn through a combination of taught modules and an individual research project. Compulsory modules are taught by members of the Climatic Research Unit and the Tyndall Centre, and you can choose three more from a broad range of options.

Compulsory module examples:
- Climate Change: The Physical Science Basis
- Energy and Climate Change
- Research Skills
- Dissertation.

Optional module examples:
- Climate Change Policy and Development
- Modelling Environmental Processes
- GIS and its Applications for Modelling Ecological and Environmental Change
- Science, Society and Sustainability
- Research Topics in Earth Science
- Environmental Assessment Effectiveness
- Theory of Environmental Assessment
- Statistics and Modelling for Scientists Using R
- Sustainable Consumption
- Stable Isotope Geochemistry
- Modern Methods in Air Pollution Science
- Geoengineering the Climate: Science and Society
- Natural Resources and Environmental Economics.

RESEARCH PROJECTS
Recent research projects include:
- GIS Modelling of potential coastal flooding caused by sea level rise in Bangladesh
- Fuel switching in the UK electricity sector during Phase II of the EU ETS
- Karaca Cave speleothem high resolution record through the last glacial maximum 24.5 to 18.4KA in Northeast Turkey
- An analysis of changes in atmospheric circulation over the UK during the extended winter months using reconstructed Lamb Weather Types from 1697-2014.

EMPLOYMENT PROSPECTS
You will graduate equipped for a career in areas as diverse as business, environmental and engineering consultancies, local and national government agencies, meteorological and climate services and academia. Many of our graduates choose to build on their experience at UEA by going on to study a research degree.

COURSE ASSESSMENT
Assessment is on the basis of coursework, exams (for some optional modules), a research project proposal and a dissertation.
MSc ENVIRONMENTAL ASSESSMENT AND MANAGEMENT

1 year full time, 2 years part time

If you are looking for a vocational course providing training in the key environmental management skills of environmental assessment at all levels of decision making, and of sustainability appraisal, this is the course for you. It focuses on both the theory of environmental assessment, and its effectiveness in practice.

ENTRY REQUIREMENTS
You should have or expect to obtain a good first degree (minimum 2:1 or equivalent) in a related discipline across the sciences, social sciences and arts and/or relevant work experience. Please contact us if you are unsure about the suitability of your background.

International students should refer to page 57 or our website for English language requirements.

COURSE CONTENT AND STRUCTURE
The course runs for one year starting in September. You will take a combination of taught modules during the autumn and spring semesters with the summer spent on an individual research project. In addition to core modules, you will be able to choose from a broad range of optional modules.

The compulsory modules focusing on environmental assessment are taught by an experienced member of staff who is a member of the Institute of Environmental Management and Assessment’s Quality Mark panel, and advises the Nuclear Decommissioning Authority on environmental and sustainability assessment in relation to the Managing Radioactive Waste Safely programme.

Compulsory module examples:
- Theory of Environmental Assessment
- Environmental Assessment Effectiveness
- Research Skills
- Dissertation.

Optional module examples:
- Modelling Environmental Processes
- Evidence-Based Global Conservation
- GIS and its Applications for Modelling Ecological and Environmental Change
- Climate Change: Physical Science Basis
- Science, Society and Sustainability
- Research Topics in Earth Science
- Energy and Climate Change
- Statistics and Modelling for Scientists Using R
- Sustainable Consumption
- Stable Isotope Geochemistry
- Modern Methods in Air Pollution Science
- Natural Resources and Environmental Economics
- Oil and Gas Engineering.

RESEARCH PROJECTS
Recent research projects include:
- Farmers willingness to participate in biodiversity offsets and how contract attributes may influence the supply of land for offsets
- Maximising the potential ecosystem services in County Wicklow, Ireland
- The equator principles III: An effective framework for managing environmental and social risk in development projects?
- An assessment of the accuracy of the Zone of Theoretical Visibility technique for wind farms.

EMPLOYMENT PROSPECTS
The course has been specifically designed to align with the Institute of Environmental Management and Assessment’s Skills Map www.iema.net/skills, which is increasingly the basis for staff development programmes within environmental consultancies. All those completing the course successfully will possess all the graduate entry skills, and some operational and specialist skills.

Accreditation for the MSc is being sought from the Institute of Environmental Management and Assessment, to allow entry at Associate level. Visit www.uea.ac.uk/study/accred

COURSE ASSESSMENT
Assessment is on the basis of coursework, assessed presentations, practical field work, and exams (for a few optional modules) and a research project proposal and dissertation.

“My MSc was invaluable in helping me secure my job. It not only helped me gain the skills required but also demonstrated my commitment and interest in that area. The core modules provide a good grounding in the discipline.”

PHILIPPA RICHARDSON,
UNITED UTILITIES
INTERNATIONAL MASTER IN APPLIED ECOLOGY (IMAE)

2 years full time

If you wish to train as an environmental specialist, are motivated to travel and experience different cultures and educational systems, this course is ideal. You will learn a variety of subjects from conservation genetics to ecosystem services, as well as the skills needed to carry out practical and research work in applied ecology. This international Master’s programme is highly challenging and extremely rewarding.

ENTRY REQUIREMENTS
This programme is open to students with a good first degree in environmental sciences, ecology, zoology or related disciplines.

COURSE CONTENT AND STRUCTURE
IMAE is an Erasmus Mundus Master of Sciences based at four European and five non-EU institutions with a wide-ranging leadership in ecology. The European institutions are the UP – University of Poitiers (France, coordinating institution), CAU – Christian Albrechts Universität in Kiel (Germany), UC – University of Coimbra (Portugal) and UEA – University of East Anglia in Norwich (UK). The IMAE study programme runs for two years and includes 20 months of study. Each year, approximately 10 studentships are offered, half to non-European students and half to European students. You will start the programme in Poitiers (September to February), followed by a field trip to Ecuador (Galapagos, Paramo and Rainforest). At the end of the field trip you will either move to Coimbra and/or Kiel (April–July). In your second year you’ll be based at one of five institutions depending on your specialism.

Your specialism options are:
– Environmental sciences and conservation – UEA, United Kingdom
– Biodiversity assessment, conservation and management – UFRGS, Brazil
– Ecosystems management or evolutionary ecology – UP, France
– Ecosystems functional analysis – CAU, Germany
– Environmental quality assessment – UC, Portugal.

The specialisation projects can be carried out in any of the IMAE institutions, these include the overseas partners in Australia, Brazil, Ecuador, New Zealand and the US. Teaching is in English, except for one sub-specialisation in France during the second year which will be mostly in French. Language courses, including French, Portuguese and German, are offered throughout the programme.

Recent research projects include:
– Modelling species distribution from atlas data for a selection of priority areas for bird conservation
– Home ranges and den site selection of introduced urban possums (Trichosurus vulpecula) in New Zealand
– Long term effectiveness of REDD+ projects in the Brazilian Amazon: opportunity costs to local participants
– Impact of climate change on European breeding birds: community re-assembly and changes to functional diversity.

COURSE PROFILE
Second year programme at UEA:
Compulsory module examples:
– Dissertation
– Multivariate Statistics
– Evidence-Based Global Conservation.

Optional module examples:
– Climate Change: Physical Science Basis
– Ecological Survey Methods
– Energy and Climate Change
– Statistics and Modelling for Scientists Using R
– GIS and Its Applications for Modelling Ecological and Environmental Change
– Globalised Agriculture Food Systems
– Modelling Environmental Processes
– Natural Resources and Environmental Economics
– Practical Conservation and Work Experience
– Restoration Ecology
– Stable Isotope Geochemistry
– Sustainable Consumption
– Univariate Statistics
– Statistics and Modelling for Scientists Using R.

EMPLOYMENT PROSPECTS
You will graduate ready to join former IMAE students working in research, conservation organisations, biotechnology and pharmaceutical companies. Many go on to study research degrees. You will gain multidisciplinary training with an emphasis on management and conservation of natural resources and the environment. In addition, you’ll benefit from training in a range of transferable skills, and the opportunity to carry out a research project in a world-leading academic institution, and in collaboration with a national or international NGO or governmental organisation. You will enjoy opportunities to establish valuable contacts with potential employers through short and long-term work experience and research interactions.

COURSE ASSESSMENT
Assessment is on the basis of coursework, practical field work, research skills and exams (for a few optional modules) and a research project dissertation.

THE IMAE experience can be summed up with one word ‘diversity’. There is a diversity of modules and research specialisations ranging from ecotoxicology to conservation-related social studies.”

TER YANG GOH,
IMAE MSc STUDENT 2012-14

FOR FURTHER INFORMATION
+44 (0) 1603 591515
admissions@uea.ac.uk
www.uea.ac.uk/env

FEES AND FUNDING
Details of our tuition fees and scholarships can be found on the fees and funding tab of individual course profiles at:
www.uea.ac.uk/env
www.uea.ac.uk/study/pgt/scholarships

HOW TO APPLY
For more information email: contact@emmc-imae.org
Apply online at:
www.emmc-imae.org

www.uea.ac.uk/env/pgt
Join a School of Mathematics with a strong international reputation for research, where students work with leading experts on a broad range of topics. We have distinguished research groups in pure and applied mathematics. We offer the chance to collaborate with industry, business and other academics around the world.
ABOUT US
We believe that mathematics can be studied both for its own sake, and for its practical application. There is a long history of important mathematical developments with no immediate application going on to underpin future discoveries in all fields of human endeavour. Today mathematics plays an essential part in many areas of society, from ship design to weather forecasting. At UEA we are firmly committed both to producing new fundamental mathematics and to using our expertise to tackle real societal challenges.

OUR RESEARCH EXCELLENCE
The quality of our world-leading and internationally excellent research ranks the School of Mathematics seventh in the UK in terms of our output in the 2014 Research Excellence Framework (REF2014). In the REF2014, 88% of our research output was found to be world-leading or internationally excellent, and 100% of our research was internationally recognised.

OUR WORLDWIDE CONNECTIONS
We have excellent research links and co-operation with mathematicians in Australia, the United States and all across Europe and Asia. The School facilitates a lively and ambitious environment for its students. We encourage and fund student participation in national and international conferences and workshops. Regular seminars are held in both applied mathematics and pure mathematics, and research students also run their own seminar series.

CHOOSE A PhD RESEARCH DEGREE IN MATHEMATICS
The School of Mathematics accepts students for PhD research degrees each year. You can apply for one of several fully funded studentships. We also welcome applications from students with their own funding.

Our Faculty members have a range of interests and are more than happy to discuss possible projects with potential students.

TRAINING
In addition to the research skills that students gain directly from their project, research training is delivered through a personal and professional development programme. Students can hone their skills by selecting courses from almost 200 offered annually. The courses include postgraduate mathematics lectures, which are mainly delivered through the EPSRC-funded MAGIC network. MAGIC comprises 20 universities, which deliver joint postgraduate courses in mathematics via a dedicated video conferencing network. Funding is also available to our students for attendance at specialised summer schools.

YOUR OPTIONS

Pure Mathematics Research Group
Join this group and you will explore the structural underpinning of our understanding of mathematics, creating the potential for future applications. You'll be able to take advantage of international collaboration networks across the globe. This allows you both to disseminate your research globally and to benefit from world experts visiting UEA. Our research areas include:
- Logic, including Set Theory and Model Theory
- Combinatorics
- Algebra, including Representation Theory.

Applied Mathematics Research Group
Research in this group utilises analytical and numerical tools for problem-solving in applied mathematics. You will have the opportunity to collaborate with industry, as well as other academics and mathematicians, to address real-life problems. You'll be encouraged and supported to develop relationships with industrial partners and academics through the Centre for Interdisciplinary Mathematical Research. You will also have the chance to participate in collaborative study groups, including the European Study Groups with Industry and the Mathematics in Medicine Study Groups. Work in the group is wide in scope, but falls broadly into these areas:
- Environmental Mathematics
- Fluid and Solid Mechanics
- Industrial Mathematics
- Mathematical Biology
- Mathematical Physics
- Numerical Analysis.

Centre for Interdisciplinary Mathematical Research
As a UEA research student you'll be able to build important collaborative relationships through the Centre for Interdisciplinary Mathematical Research (CIMR). Established by the School of Mathematics in 2000, its remit is to provide industry, business and academic partners direct access to the research expertise within the School. This Centre facilitates contact with academic and non-academic partners through joint seminars and joint research projects.

www.cimr.uea.ac.uk

Complex Systems with Interfaces
Research Network
You will also be able to benefit from the Complex Systems with Interfaces (COSI) research network. Set up in 2015, COSI is hosted by the Schools of Mathematics at the University of Birmingham, University of Nottingham, and UEA. Researchers in the network study complex interfacial problems, including multiphase flows, tumour growth, and geophysical flows.

For further information on research topics and applications, visit: www.uea.ac.uk/mths/research-degrees
For further information about research within the School of Mathematics, visit: www.uea.ac.uk/mths/research
PERFECT DOSE

PHARMACY

We have developed a reputation as an innovative, progressive department producing excellent research that is having a real impact on people’s lives.
TAUGHT PROGRAMMES
As a postgraduate student in the School of Pharmacy, you will be taught by a mixture of academic and practising pharmacists who are dedicated specialists in their field. That means you can be sure of access to the most up-to-date clinical and operational pharmacy knowledge as well as novel teaching and learning techniques. We work closely with employers to ensure that we are helping to shape the pharmacists required in our workplaces locally and in the pharmacy workforce nationally.

WHY CHOOSE US?
UEA’s School of Pharmacy is the top-ranked School in the UK for research outputs, as confirmed by the 2014 Research Excellence Framework (REF2014). This means that you not only benefit from cutting-edge teaching, you can also access state-of-the-art facilities for research-based project work. Plus, thanks to our close relationship with institutes of the Norwich Research Park and the Norfolk and Norwich University Hospital, you can also enjoy research opportunities in food and plant-related science, health and disease, chemical and structural biology, bioanalysis and biotechnology.

Our research is highly innovative in its breadth of topics. All aspects of pharmacy-related research are covered – from molecular pharmacology and drug design, pharmacutic technology and process, through to professional practice, service and health policy research.

Research is focused on four broad themes, although much of our research is cross-disciplinary in nature and collaborations between the sections are common. Our four research themes are:

DRUG DELIVERY AND PHARMACEUTICAL MATERIALS
Research in this area focuses on the development of novel drug delivery systems based on a fundamental understanding of their structure and properties. The research grouping is internationally recognised for developing applications of state-of-the-art analytical (such as solid-state NMR, thermal methods and atomic force microscopy) and modelling tools within the pharmaceutical sciences. Other key areas of research in the group include development of new nanopharmaceuticals, materials for pulmonary delivery (including peptides), and polymer-based pharmaceutical dispersions.

MEDICINAL CHEMISTRY
Research has a strong focus at the chemistry-biology interface, ranging from the synthesis of natural products and classical medicinal chemistry through to new approaches to drug delivery vehicles and the discovery and study of new microbial drug targets at the molecular level. Natural products form a key starting point for the synthesis of new agents and biological targets include protein-protein interactions, enzymes and nucleic acids. Supramolecular compounds are being investigated as potential delivery systems for DNA, siRNA and small molecules.

MEDICINES MANAGEMENT
Medicines management research is designed to optimise the use of medicines in patients, with a focus on improving the selection and monitoring of medicines and on enhancing patient medicine taking behaviour. The research grouping, which collaborates with colleagues from the Faculty of Medicine and Health Sciences and local NHS Trusts, is currently developing interventions to improve medicines used within care homes, to help patients with swallowing difficulties to take their medicines and to help patients who are unable to take their medicines due to either intentional or unintentional reasons.

MOLECULAR PHARMACOLOGY
The major focus of this research is on age-related diseases (including cancer, cardiovascular disease, inflammatory diseases and neurodegenerative disorders). There is a strong emphasis on understanding receptor function and cell signalling mechanisms in these diseases, identifying novel therapeutic targets and understanding the mechanisms of action of novel therapeutics and nutraceuticals. Researchers in this area collaborate with other Schools in the Faculty of Science, the Norwich Medical School and the research institutes within the Norwich Research Park.

Find out more at: www.uea.ac.uk/pha/research
For our research degree opportunities visit: www.uea.ac.uk/pha/research-degrees
MSc/POSTGRADUATE DIPLOMA
PHARMACY PRACTICE

2 years part time (PGDip) with a further year part time to achieve an MSc

Join a dynamic programme that is novel and aspirational, driving our pharmacists towards being the most highly effective practitioners.

ENTRY REQUIREMENTS

You should have a degree in pharmacy and be working at least 0.4 FTE in a patient-facing role as a GPhC-registered pharmacist within the East of England region. You should continue in this role throughout the course. You must have the support of your employer to attend study days as well as a tutor either based in or able to visit the workplace to regularly assess your practice.

WHO IS THE COURSE FOR?

If you are a pharmacist working in a patient-facing sector, this course is ideal. You will be passionate about enabling delivery of patient-focused services and utilising the clinical and consultation skills that complement the pharmacist’s evolving role.

COURSE CONTENT AND STRUCTURE

The diploma course is delivered on a part-time basis over two years. Course topics include basic clinical skills and drug knowledge in a wide range of therapeutic areas. This is coupled with practice knowledge of how to maximise patient safety, introduce change within the workplace, design research, teach peers and engage with the national agenda for pharmacy and the wider NHS.

You will learn common skills such as consultation in mixed groups of community and NHS pharmacists. However you will also learn sector-specific skills and benefit from specialist experiences tailored to each sector. This approach facilitates the sharing of best practice both from within and across pharmacy sectors.

Following an induction day, there will be nine study days per year covering a range of clinical and operational topics listed in the table to the right.

COURSE ASSESSMENT

You will be assessed on:
- Delivery of patient care
- Building working relationships
- Management
- Leadership
- Education, training and development
- Research and evaluation.

This will be supported by a practice portfolio, coursework (such as clinical audit or service evaluation, critical appraisal of literature, service development and research), a range of presentations, a clinical simulation and a MCQ examination.

EMPLOYMENT PROSPECTS

At diploma level: you will graduate able to demonstrate the clinical and organisational skills required to participate fully and competitively in the changing NHS. If you are a hospital and primary care pharmacist, you will be able to apply for band 7 posts or if you are a community pharmacist, you will be able to provide a range of enhanced services.

At MSc level: NHS pharmacists will be looking towards band 8 roles or are established senior pharmacists introducing research expertise into their professional portfolio. Community pharmacists attaining the MSc will be looking towards leadership roles in service design and delivery.

ALL STUDENTS

- Patient Assessment
- Working in the NHS
- Audit/Service Evaluation
- Risk Management
- Adverse Drug Reactions and Interactions
- Patient Consultation
- Healthcare at the Interface.

NHS ONLY

- Medicines in Renal/ Hepatic Impairment
- Fluids and Clinical Nutrition
- Enteral and Parenteral Drug Therapy
- Therapeutic Drug Monitoring
- Antimicrobials.

COMMUNITY ONLY

- Pharmacy Management
- Enhanced Services: Cardiovascular Risk
- Enhanced Services: Sexual Health
- Enhanced Services: Smoking Cessation
- Enhanced Services: Substance Misuse.

YEAR 1: FOUNDATION IN PHARMACY PRACTICE

- Change Management
- Respiratory Disease
- Mental Health
- Endocrinology
- Cardiovascular Disease
- Critical Appraisal
- The Pharmacist Teacher
- Research Proposal.

YEAR 2: APPLIED THERAPEUTICS

- Gastrointestinal and Liver Disease
- Cerebrovascular and Renal Disease
- Care of the Perioperative Patient.

The above is an example programme of what you may study on the course.
LIFE AT UEA

Choose UEA and you will study at an internationally renowned university based on a spacious campus that provides top quality academic, social and cultural facilities to more than 15,000 students. You’ll also be among the most satisfied students in the country, according to the latest National Student Survey. We have been in the top five English mainstream universities for student satisfaction since the survey began.

“There is so much to do here, the campus is vibrant and I love that it is a hive of activity. The teaching and research facilities are excellent, but I think one of the biggest attributes is the Sportspark, which is incredible.”

JEN BARWELL, MB BS MEDICINE GRADUATE
AN IDEAL LOCATION
Study at one of the most distinctive campuses in the country. Built on 200 hectares of beautiful parkland on the outskirts of the historic city of Norwich, our campus combines natural beauty with architectural flair. The campus has won more than 20 architectural awards and ongoing multi-million pound investment continues to enhance teaching and research facilities. Virtually no part of our campus is more than a few minutes’ walk from anywhere else, and almost everything you could need is available on site – there’s a large food shop, incorporating a newsagent, post office and bakery, a bank, three launderettes, restaurants, bars and even a Waterstones bookshop. There are good public transport links into the city, where you will find a mainline railway station with regular services to London and other parts of the country. Norwich also has an international airport.

ACCOMMODATION
Choose from some of the best student accommodation in the country. It has twice been ranked first in the UK by the Whatuni Student Choice Awards and achieved one of the top scores in the most recent Times Higher Education Student Experience Survey.

If you are a single international postgraduate student, you are normally guaranteed accommodation in your first year, provided you have been offered and accepted a place at the University by the published deadline.

LEARNING RESOURCES
Take advantage of a library containing more than 800,000 books and journals, as well as extensive collections of specialist materials with 15,000+ new titles added annually. It is staffed seven days a week and open 24 hours a day. As a postgraduate taught or research student, you’ll have access to two study rooms in the Library specifically designed to meet your needs and equipped with desks, computers and lockers.

You’ll also have access to a wide range of IT services including campus internet access via a wireless network and in student residences. If you have mobility problems or visual impairment we offer equipment such as scanners, colour printers and work stations that are specially equipped to meet your needs.

www.uea.ac.uk/is

LANGUAGE LEARNING FOR ALL
Whichever programme you choose, you will have the opportunity to improve or learn another language, although there may be an additional charge for this. We currently offer classes in Arabic, British Sign Language, Advanced English, Mandarin Chinese, French, German, Italian, Japanese, Russian and Spanish.

www.uea.ac.uk/lcs/learning-a-new-language

STUDENT SUPPORT
Whether you want to find out more about the opportunities available to you at UEA or are experiencing difficulties, we offer a wide range of advice and guidance. From counselling to childcare, money matters to our multifaith centre, it’s good to know there’s help available whenever you might need it. Help is available from financial advisers, an international student advisory team, learning enhancement tutors, an excellent nursery and a disability team. We also have a purpose built campus medical centre, a Boots pharmacy and a dental service offering NHS treatment to you and your family.

portal.uea.ac.uk/student-support-service

SPORTING FACILITIES
The University’s £30 million Sportspark is one of the finest sports complexes in Britain, boasting a state-of-the-art Olympic-sized swimming pool, athletics track, climbing wall, superbly equipped 125-station fitness centre, two indoor arenas, a gymnastics centre and all-weather pitches hosting an extensive range of sports and leisure activities, from gymnastics and trampolining to aerobics and dance. Our sports facilities were ranked highly in a recent Times Higher Education Student Experience Survey.

www.sportspark.co.uk
CAREERS SERVICE
CareerCentral works in partnership with academic Schools to plan and deliver a comprehensive programme covering career management, employer and industry-focused events and one-to-one guidance. Building links with employers, industry and start-up enterprises is central to our work, enabling us to provide you with a wealth of vacancy, internship, voluntary, mentoring and graduate opportunities. We encourage enterprise, innovation and aspiration throughout your time at UEA.

We know employment is important to you and actively strive to equip all our postgraduate students with the attributes necessary to succeed in whichever field you enter. There are careers advisers affiliated with each School to support Master’s level postgraduates and three advisers specifically for research postgraduates across all Schools. They will provide you with impartial information, advice and guidance, helping you develop suitable career-related skills and knowledge. Additional careers support for PhD students is provided through the Faculty Researcher Development programmes.

You can access comprehensive resources with information on occupations, employers and further study opportunities. There are numerous opportunities throughout the academic year to meet employers at presentations and many other events, fairs and workshops. These include a range of networking opportunities with experienced professionals, many of whom are themselves UEA alumni.

We maintain a targeted database of quality graduate vacancies and run a vacancy service for part-time or casual work locally or on campus during your studies.

Even after graduation, we will continue to offer you professional careers support for up to three years. This includes an internship programme to help increase your employability through undertaking a strategic level project.

GIGS AND EVENTS
The Independent says our Student Union gig roster is “like pop music’s roll of honour, with the biggest names performing each year and other students’ unions wondering how on earth we manage it”. The Nick Rayns LCR plays host to a wide range of popular bands, with around 60 gigs on campus each year. Regular club nights cover a wide spectrum of tastes and ensure there is something for every music fan. Recent high profile performers have included Ella Eyre, Years & Years, John Newman, Ellie Goulding, Kodaline, Clean Bandit, Rizzle Kicks, Tom Odell, Bastille, Sub Focus, Haim, Ed Sheeran, Kaiser Chiefs and Coldplay.

FINANCING YOUR STUDIES
Please refer to our postgraduate web pages for the latest information on fees and scholarships.

ARTS AND CULTURE
We are home to the Sainsbury Centre for Visual Arts, which provides access to permanent exhibitions of world art and a diverse range of touring exhibitions unrivalled by other universities. UEA also hosts an International Literary Festival which has included famous names such as Ian McEwan and Kazuo Ishiguro – both alumni of UEA’s Creative Writing course. Norwich is England’s first UNESCO City of Literature.

www.uea.ac.uk/careers
www.uea.ac.uk/internships
www.ucva.ac.uk
www.uea.ac.uk/litfest
www.uea.ac.uk/study/postgraduate/scholarships
www.uea.ac.uk/internships
www.uea.ac.uk/litfest
www.uea.ac.uk/study/postgraduate/scholarships
There is a lot going on in Norwich. A busy city with a real character all of its own, Norwich is friendly and lively.

Walk around the centre and you can see the historic reminders of its past, the two cathedrals, Norman castle and city walls, as well as its present with the stunning Forum library overlooking busy cobbled shopping streets and bustling cafes and restaurants. In short, Norwich is a charming mix of the historical and the new. There are plenty of opportunities to catch live music or theatre and the city is teeming with modern and traditional pubs. We have our own football team, Norwich City. And the city was recently ranked as one of the safest places to live in the UK. Our students love Norwich so much, many stay long after their studies.

SHOPPING
Norwich was voted one of the top 10 shopping destinations in the UK and it’s no wonder. With modern shopping malls, chain stores and half-timbered independent outlets sitting alongside stunning arcades and the UK’s largest open-air market, Norwich is a joy to explore. As well as the big names, Norwich has many department stores, plus plenty of small, local outlets, vintage second-hand shops and exciting new ‘pop-ups’.

ART AND CULTURE
Norwich was nominated as the UK’s City of Culture 2013, and it’s easy to see why. The city has six theatres with Norwich Theatre Royal regularly staging West End productions. There are also four cinemas, including the art house Cinema City, a number of established museums and a host of art galleries, from the renowned Norwich Gallery to artist-led galleries Outpost and Stew.

The Norfolk and Norwich Festival, held each May, is internationally acclaimed, attracting performers and visitors of all ages. Its programme covers everything from classical ensembles to French-Canadian acrobats and the Open Studios scheme where local artists open up their studios for an exclusive peek inside.

The carnival and firework display for the Lord Mayor’s celebration every July is not to be missed while the Royal Norfolk Show, at the end of June, is the country’s largest two-day county show, which celebrates all that is great about this diverse county from its agricultural heritage to its gourmet food producers.
FOOD AND DRINK
Norwich has plenty of choice when it comes to eating out. Japanese, Thai, Italian all sit alongside traditional English restaurants and pub grub. Celebrity chefs Delia Smith, Jamie Oliver and Antonio Carluccio all have restaurants in the city. Delia’s is an established restaurant situated alongside Norwich City’s football ground, whilst Jamie’s Italian is open for business in the stunning Royal Arcade. You’ll be pleased to know that many Norwich eateries also offer student discounts.

Look out for all the great delis and farm shops for fresh, seasonal produce (Norfolk produces everything from juicy mussels to organic chocolate). The local microbreweries are worth visiting too, with some gorgeous local beers and real ales.

NIGHTLIFE
Norwich has a thriving club and bar scene with new establishments opening all the time. There are also a number of live music venues such as the Norwich Arts Centre and UEA’s very own Nick Rayns LCR and the Waterfront.

You’ll find hundreds of pubs dotted around Norwich. At one time the city was said to have a tavern for every day of the year. Many pubs host comedy and quiz nights whilst real ale fans will not want to miss October’s famous Norwich Beer Festival.

PERFECT LOCATION
We are in a unique location. Situated on the edge of both the city and countryside, you are perfectly placed to explore both. The Norfolk coastline is home to world famous bird reserves and beautiful beaches, as well as ever-changing countryside interlaced with sleepy medieval villages, bustling market towns and stately homes.

One of England’s most beautiful national parks, The Broads, is also right on our doorstep for sailing, walking and cycling while paintballing, amusement parks, a trip to the zoo or a day at the races are all within easy reach of the University.

TRAVEL
Norwich has excellent public transport with trains every 30 minutes to London. Norwich International Airport is only 15 minutes from the city centre and has links worldwide via four daily flights to Amsterdam. National Express and Megabus also operate services directly from the campus to destinations all over the UK and Europe.

“Norwich is a fine city. None finer. If there is another city in the United Kingdom with a matchless modern art gallery, a University with a reputation for literary excellence which can boast Booker Prize-winning alumni, and an extraordinary new state-of-the-art public library then I have yet to hear of it.”

STEPHEN FRY, ACTOR, WRITER AND UEA HONORARY GRADUATE
APPLYING TO UEA

You should normally have a good first degree (minimum 2:1 or equivalent) from a recognised higher education institution in a relevant discipline. We will also take into account your educational and work experience. Requirements do differ from course to course.
INTERNATIONAL APPLICANTS

UEA welcomes applications from students outside the UK. We offer a high-quality educational experience for international postgraduates, visiting students, exchange students and undergraduates. If you join us as an international student you’ll be in good company. Over 2,700 non-UK students from more than 100 countries worldwide study at UEA. For further information about all aspects of life as an international student at UEA including English language requirements go to:

www.uea.ac.uk/international

To ensure you benefit fully from your postgraduate study, we ask for evidence of proficiency in English. Our usual entry requirements are:

IELTS (or an equivalent qualification):

Taught/Research: 6.5 (minimum 6.0 in all components).

These do vary for certain courses, so please check the ‘Essential Information’ section for your chosen degree on your School’s website.

Alternatively email:

admissions@uea.ac.uk

In order to meet these requirements, you may wish to complete a Pre-Sessional English for Academic Purposes course prior to beginning your programme. This can be taken at the University’s INTO Language Learning Centre.

www.intohigher.com/uea

HOW TO APPLY

Your applications should be made directly to the University and can be completed online at:

www.uea.ac.uk/study/postgraduate/apply

Please read the guidance notes, as incomplete forms or missing references can delay decisions. If you have any questions about your application email:

admissions@uea.ac.uk
or telephone: +44 (0) 1603 591515

Your application must be accompanied by certified transcripts and, if available, the final graduation certificate from your earlier university, setting out examination results to date and, where applicable, the official results of IELTS (or equivalent) English tests. You should also include one formal academic reference.

If you are applying for a research degree, you should also include your full curriculum vitae and a statement of your proposed area of research unless applying for a specified studentship.

If you are interested in one of our research degrees we strongly encourage you to make contact with staff working in your area of interest to discuss research projects before making a formal application. You can refer to the research interests of members of academic staff on each School of Study’s webpage. For further information contact us via:

pgr.enquiries.admiss@uea.ac.uk
or telephone: +44 (0) 1603 591709

STUDENTS WITH DISABILITIES

We welcome applications from students with disabilities. The Disability Service aims to offer information, advice and the co-ordination of support required before and during your studies. We encourage you to provide us with as much information as possible in advance of your arrival, so we can make any necessary preparations. This can include adjustments to your studies or accommodation.

portal.uea.ac.uk/student-support-service

VISITING US

We are always delighted to meet prospective students, either before or after your application. The best way to assess a university is to visit and experience what it has to offer. We warmly invite you to come and meet us. Please contact us to make arrangements.

GENERAL ENQUIRIES

www.uea.ac.uk
or telephone: +44 (0) 1603 456161
DISCLAIMER
We have taken great care in compiling the information contained in this brochure, which we believe to be accurate at the time of going to press. However, the provision of facilities and other arrangements described in the brochure are regularly reviewed and may, with good reason, be subject to change without notice. Applicants will be notified immediately of any material changes likely to have a bearing on their application, such as changes to accommodation provision.

Should industrial action or other circumstances beyond the control of the University occur, and this interferes with the University’s ability to deliver services in accordance with the descriptions provided, the University will use all reasonable endeavours to minimise disruption as far as it is practicable to do so. Provided the University complies with its obligations set out above, it shall not be liable to students or applicants, for any loss, costs, charges or expenses arising out of the information set out in this brochure, changes to that information or any disruption or interference of the type described above.

EQUAL OPPORTUNITIES
The University of East Anglia operates an equal opportunities admissions policy. It aims to ensure that no applicant will receive less favourable treatment on the grounds of sex, age, marital status, race, colour, nationality, ethnic origin, sexual orientation, or political or religious belief. The University welcomes applications from candidates with disabilities. Information contained in this brochure may also be made available in other formats, to ensure access for everyone. Please call +44 (0) 1603 593753 to discuss.

ETHICAL INVESTMENT POLICY
The University of East Anglia operates an Ethical Investment Policy.

PROFESSIONAL, STATUTORY AND REGULATORY BODY (PSRB) ACCREDITED PROGRAMMES
For an up-to-date list of accredited PSRB programmes, including a summary of the type of accreditation and accreditation dates please see: www.uea.ac.uk/study/accred

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When you have finished with this brochure please recycle it.
“I completed my BSc in Microbiology at UEA, a University with emphasis in current research. Studying now for my PhD within the Norwich Research Park makes me feel like part of a force with resources to make the real discoveries of our generation.”

MICHAEL NORMAN, DOCTORAL TRAINING PARTNERSHIP PhD STUDENT