ENTRY REQUIREMENTS
A good honours degree in mathematics, statistics or another numerate discipline is required. Preferably, but not exclusively a First or Second Class Honours degree in a suitable numerate science or engineering subject.

For students who have not studied enough mathematics to gain direct entry to the MSc programme, we may be able to offer the opportunity to build up and enhance their general mathematical and statistical skills in the year for access to the specialist MSc in an individually tailored Graduate Certificate programme, comprising key undergraduate mathematics and statistics courses.

ENGLISH REQUIREMENTS
If your first language is not English, or your first degree was not taught in English, we’ll need to see evidence of your English language ability. The minimum requirement for English language is IELTS 6.0, TOEFL 80 (IBT) or equivalent. We offer a range of English language courses to help you meet the English language requirement prior to starting your Masters programme:
• 2 semesters English (for IELTS 4.5-5.0)
• 12 weeks English (for IELTS 5.5).

Further details can be found at www.english.hw.ac.uk

FEES, FUNDING AND SCHOLARSHIPS
Latest tuition fees are published on our fees web pages: www.hw.ac.uk/fees. We offer scholarships to well qualified applicants. Instructions on applying can be accessed from our scholarship web pages: www.scholarships.hw.ac.uk

HOW TO APPLY
You can apply by using our online application form available at: www.postgraduate.hw.ac.uk/apply
You must also provide a copy of your degree certificate and relevant academic transcripts, references from two academic sources and evidence of your English language ability. You can attach documents to the online application using the document upload facility. If you are an applicant from outside the European Union and require a visa for entry to the UK, please provide a copy of the photograph page of your current passport.

There is no official deadline for applying to the programme. However it is always better to submit your completed application as early as possible to have a good chance of securing a place and for overseas applicants to obtain their Tier 4 student visa in sufficient time.

FIVE GOOD REASONS TO STUDY AT HERIOT-WATT
1. The programme is taught by leading academics with a strong research record in mathematics
2. Our graduates have a wide range of career choices
3. Recruitment prospects are excellent in the coming years
4. Our degree will place you in a unique position at the core of this vibrant career
5. We are a green campus on the edge of the historic city of Edinburgh, the birth place of James Clerk Maxwell.

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E: pgenquiries@macs.hw.ac.uk
W: www.postgraduate.hw.ac.uk

APPLIED MATHEMATICAL SCIENCES WITH CLIMATE CHANGE IMPACTS MODELLING
MSc/PG Dip
12 MONTHS/24 MONTHS
FULL-TIME/PART-TIME

Distinctly Ambitious
www.hw.ac.uk
PrOGrAmmE BACKGrOund

Graduates with good mathematical and statistical skills are in high demand in industry and academia. Current research in the Mathematics Department at Heriot-Watt applies to a diverse range of problems related to climate change inputs: ground water reservoir simulations, ecology, squirrel populations and integrable systems.

Mathematical skills have consistently figured among the key criteria for securing the best jobs available in terms of: environment, income, employment outlook, physical demands and stress. The median annual income for mathematicians in 2011 is about £60,000. A postgraduate degree in mathematics from Heriot-Watt University will place you in an excellent position to pursue a wide range of exciting careers.

This Applied Mathematical Sciences MSc provides transferable, modern mathematical and statistical skills geared to careers in both research and industry. To achieve this we offer a solid theoretical and practical foundation through a broad range of courses.

PrOGrAmmE OBJECtivEs

Climate change is recognised as having potentially huge impacts on the environment and on human society. This programme aims to provide an understanding of climate change causes, impacts, mitigation and adaptation measures from a life science perspective in conjunction with developing a wide variety of mathematical modelling skills that can be used to investigate the impacts of climate change.

The programme closely follows the structure of our Applied Mathematical Sciences MSc. Two of the mandatory courses will specifically focus on understanding the issues related to climate change and are taught by the School of Life Sciences.

PrOGrAmmE struCturE

Taught courses are selected from:
- Climate change: causes and impacts
- Climate change: mitigation and adaptation measures
- Mathematical ecology
- Modelling and tools
- Approximation of continuous systems
- Optimization
- Statistical methods
- Foundation molecular biology
- Mathematical biology and medicine
- Dynamical systems
- Applied linear algebra
- Numerical analysis of PDEs.

ASSESSMEnt mEtHOds

Courses are assessed by a mixture of written examinations at the end of each semester and continuous assessment. The project is assessed by submitted report.

Typical projects include:
- Population cycles of forest insects
- The replacement of red squirrels by grey squirrels in the UK
- Vegetation patterns in semi-arid environments
- Climate change impact.

Your University

Heriot-Watt University offers a superb environment for postgraduate study. We are one of the UK’s leading universities, recognised internationally for excellent teaching and research in our specialist areas of science, engineering, business management, languages and textile design. Our community of postgraduate students is made up of bright, highly imaginative and self-motivated individuals, who work closely with our forward-looking and energetic research-active academic staff. This collaborative atmosphere is fundamental to Heriot-Watt’s enviable academic and research reputation. Those of you who choose to study with us will discover high quality taught and research programmes, flexible student-centred delivery, unrivalled facilities and pioneering research.