

PRE-MASTERS AND UNDERGRADUATE CERTIFICATE PROGRAMMES 2011/12

www.hw.ac.uk/isc

87% OF INTERNATIONAL STUDY CENTRE STUDENTS PROGRESSED TO A HERIOT-WATT UNIVERSITY DEGREE PROGRAMME IN 2010

HERIOT-WATT UNIVERSITY SCOTLAND'S INTERNATIONAL UNIVERSITY

Welcome **Message from the Principal**

Selecting a university is one of the most important decisions you will ever make. As a university ranked in the top 5% in the world, Heriot-Watt could be the right choice for you.

Heriot-Watt University's unique learning environment offers you the very best study opportunities, facilities, accommodation and social life. We are one of the world's leading universities for business and industry and have a reputation for innovative education, enterprise and research.

We offer a highly distinctive range of programmes in science, engineering, design, business and languages, designed to educate the professionals and thinkers of tomorrow. As the eighth oldest higher education institution in Britain, Heriot-Watt has a long-standing tradition of excellence dating back to 1821. Throughout this time, we have always supported our students, academically and personally in the spirit of inclusion, cooperation and friendship. With us, you have the chance to be a part of a truly international campus learning and living with a community of students from Scotland, the UK and over 150 countries worldwide.

I hope you find this prospectus informative and that it will encourage you to apply to Heriot-Watt University. If you choose to join us, you will discover that being a student here is not only academically stimulating but also a rewarding life experience.

ShC

Professor Steve Chapman FRSE, FRSC, CCHEM, PHD Principal and Vice-Chancellor



UNDERGRADUATE CERTIFICATE AT THE HERIOT-WATT INTERNATIONAL STUDY CENTRE WILL PREPARE YOU FOR POSTGRADUATE OR UNDERGRADUATE STUDY AT THE UNIVERSITY. EACH PROGRAMME COMBINES ENGLISH LANGUAGE TRAINING, ACADEMIC SUBJECTS AND STUDY SKILLS TO ENSURE YOU HAVE THE TOOLS TO

SUCCEED ON YOUR CHOSEN DEGREE."

"THE PRE-MASTERS AND



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Heriot-Watt University Scotland's International University

Our famous Scottish hospitality makes Heriot-Watt one of the most cultural, social and welcoming study centres in the UK.

A COSMOPOLITAN UNIVERSITY

Heriot-Watt has always welcomed international students, so it's not surprising that in 2010 over one third of our 8,000 students came from outside the UK. We have students from all over the world including Norway, China, India, Singapore, Malaysia, France, Germany, Spain, Mexico and Greece. Right now we are listed 4th in the UK for the highest percentage of international students.*

Heriot-Watt University won the 2007 Scottish Council Development and Industry annual award for Outstanding International Achievement in Scotland's Universities. The award is made to institutions that demonstrate a strong international focus with emphasis on transnational projects, overseas links, student recruitment and international support.

LIVING AND LEARNING

We stand out from other institutions because of our beautiful campus, safe environment and community that provides you with a sense of belonging throughout your time at University.

The beautiful green campus and its facilities are designed to accommodate all your requirements, be they academic, social, sporting, cultural, religious, transport or health related.

You'll find a really friendly, sociable community atmosphere on campus. It's easy to get to know people here and everything is in easy reach.

WHY CHOOSE HERIOT-WATT?

- We are a vibrant, progressive university with an established reputation for excellent teaching.
- Our degrees are highly regarded for their relevance to the workplace and employers actively seek out our graduates.
- Once you graduate, you will join one of the largest university graduate associations in the world, a valuable network for your developing career.
- We have an international expertise in science, business, engineering, languages and design.
- You'll experience a distinctive education and join a highly focused student community committed to learning and career success.
- Live and learn on a beautiful campus with a friendly atmosphere close to an iconic heritage city.
- Access to the very best social, cultural and sporting facilities – on campus and in Edinburgh.
- Be part of one of the UK's leading research organisations and deliver research of international standing.

* Higher Education Statistics Agency



VICTOR GOH, MALAYSIA UNDERGRADUATE CERTIFICATE, NOW STUDYING BSC QUANTITY SURVEYING

NATIONAL UNIVERSITY

"I CHOSE TO STUDY AT HERIOT-WATT AS IT IS WELL KNOWN FOR THE BUILT ENVIRONMENT SECTOR. EDINBURGH IS ONE OF THE BEST CITIES I HAVE SEEN AND PEOPLE ARE FRIENDLY. THE CAMPUS HAS VERY GOOD FACILITIES."

Your career starts at Heriot-Watt Be inspired to go further

Heriot-Watt is firmly focused on your future. We create the positive learning experience that will arm you for success in your chosen career.

Our degrees are career focused and relevant to the needs of business and industry which is why employers actively seek out our graduates. We think you'll find studying at Heriot-Watt a life changing, intellectually challenging, career boosting experience. Our superb teaching and research facilities, plus first-rate links with business and industry, will help to prepare you for success in your chosen career.

You'll enjoy a distinctive, high quality academic experience focused on developing your skills and knowledge to help you move smoothly into the world of work at the end of your studies.

Survey results show that 92% of first degree graduates are in work or further study 6 months after completing their programme, one of the highest rates in the UK.*

THE CAREERS ADVISORY SERVICE

The Careers Advisory Service provides impartial and confidential careers advice and guidance to students and graduates. Their role is to help you identify your career goals and develop the skills required to find employment. Highlights of this service include:

- a dedicated website with details of career options
- postgraduate study opportunities, graduate vacancies and job-hunting techniques
- a comprehensive careers information library and programme of talks and workshops
- mock interviews, CV advice, application and form checks
- individual career guidance from professionally qualified staff
- a Jobshop advertising part-time and vacation work
- an annual Careers Fair

GLOBAL ALUMNI NETWORK

When you graduate from Heriot-Watt University you'll automatically be a member of the Watt Club - a professional network connecting you with over 62,000 alumni worldwide. The Watt Club recently celebrated its 150th Anniversary, making it the oldest graduate association in the UK.

ALUMNI ACHIEVEMENTS

While the majority of our graduates have gone on to have stellar careers in their chosen area, there are a few that stand out as truly exceptional.

STEWART SEATTER

Stewart Seatter studied Offshore and Mechanical Engineering in Heriot-Watt. Graduating in 1981 he moved to Malaysia and is now the President and CEO of Source Venture Consultants. In 2008, Seatter was honoured by the Malaysian royal court with a knighthood equivalent.

DR JUAN JING

Dr Jing completed her PhD at Heriot-Watt in 2004. Since then she has gone on to become a Research Fellow at the Peking University-Lincoln Institute Centre for Urban Development and Land policy in China.

IRVINE WELSH

Critically acclaimed novelist Irvine Welsh graduated with an MBA from Heriot Watt in 1991. Five years later he shot to fame when his novel, Trainspotting, was made into a multi-award winning film.

*Higher Education Statistics (HESA) 2010



BUSINESS AND NATIONAL SUPPORT NETWORKS."

THE VIRGIN ALTERNATIVE GUIDE TO **BRITISH UNIVERSITIES**

Edinburgh A fantastic place to live and work

Studying in Edinburgh gives you the perfect opportunity to explore and experience one of the most exciting cities in Europe.

SCOTLAND'S INSPIRING CAPITAL

Edinburgh, the country's capital city, is the second largest city in Scotland. It is situated on the east coast of Scotland and has a population of 450,000. It has won more than 10 UK Best City Awards in the last six years and is listed 21st in the Lonely Planet's 200 most interesting, attractive and liveable cities in the world.

Edinburgh has been the capital of Scotland since 1437 and has a rich history with both the Old and New Towns of Edinburgh listed as a UNESCO World Heritage Site in 1995. This makes it a top destination for both students and tourists. Edinburgh receives over four million visitors each year, one million of whom walk the Royal Mile all the way to the spectacular Edinburgh Castle which has overlooked the city for 1,000 years.



The annual Edinburgh Festival is the largest performing arts festival in the world and the population of the city literally doubles during this time. Comedy, theatre, dance and writing are all part of the city's cultural identity and come to life during festival season. Even in the depths of winter, Edinburgh is alive with music and a festival atmosphere at the Hogmanay New Year's Eve street party, when it's definitely a time to wrap up warm and let your hair down.

Throughout the year and across the city you will find a good mix of pubs and clubs as well as restaurants. Complementing all this is Princes Street, Edinburgh's main high street, providing a cosmopolitan mix of eclectic shops, high-street brands and cafés.

Edinburgh is also a city for sport with two top Scottish Premier League football teams, athletics at Meadowbank Stadium, swimming at the Commonwealth Pool, rugby at Murrayfield, skiing and snowboarding at Hillend, climbing at Ratho Adventure Centre and an array of top golf clubs.

The weather in Scotland is not what people often imagine. It is said to be cold and wet; however average rainfall is lower in Edinburgh than Manchester and only slightly more than London. Average temperatures in winter are only 0.1 degree C lower than Manchester and only 0.6 degrees C lower than London.



- XIAN IN CHINA

A FANTASTIC PLACE TO LIVE AND WORK 9

DID YOU KNOW EDINBURGH IS TWINNED WITH: • DUNEDIN IN NEW ZEALAND • KIEV IN UKRAINE • VANCOUVER IN CANADA • FLORENCE IN ITALY • MUNICH IN GERMANY • SAN DIEGO IN USA

The Edinburgh Campus Learning resources and facilities

Our campus brings you the best of both worlds: state-of-the-art facilities right beside the city.

Students at Heriot-Watt consider the beautiful green campus and its facilities their home. With easy access to the heart of the city, Edinburgh itself becomes a home from home.

THE STUDENT UNION

The Student Union is run by students for students and provides advice and support to help you have the best possible experience while you are here.

While you're on campus, the Student Union plays a key role in providing a range of services including:

- Accommodation Office
- Student Welfare Services
- International Student Advisors
- Careers Service
- Disability Service
- Health Centre
- Chaplaincy

The Student Union run a full programme of social events including live music, quizzes, stand-up comedy and club nights, bars, a café with wireless internet access, and catering.

Getting involved with the Student Union is very rewarding. From supporting students with welfare issues or writing for the student news magazine, to setting up an entertainments venue or representing students to the University's management, you can make the most of our sports clubs and student societies.

LIBRARY AND IT FACILITIES

The Edinburgh Campus Library is open for over 80 hours per week – 24 hours a day in busy exam times. Library staff will help you find and use the information you need to succeed in your programme. Staff are available to help you make the best use of the library. There is wireless internet access in the library.

SPORTS FACILITIES

If you have an interest in sports and exercise, you will love the excellent indoor and outdoor facilities at Heriot-Watt. Facilities include sports halls, tennis and squash courts, football pitches, a golf academy, climbing wall and cardiovascular suite.

The coaching and support team can help you to develop the skills you need to keep fit, play sport for the University or even achieve national and international status. There's also a Sports' Union run by students where you can join more than 30 clubs, from football to fencing and from snow-sports to sub-aqua.

MUSIC

Music is a big part of the very special atmosphere at Heriot-Watt. With a Director of Music in residence every year there is a constant focus on musical activity throughout the University. The local community actively participate as both audience and performer, singing and playing musical instruments with students and staff. There are lots of different ways to become involved in music through the many groups and societies.



Living on campus

Students can enjoy a place in safe and comfortable University accommodation from the first year of study.

We offer a range of comfortable and affordable accommodation options, designed to make your life at Heriot-Watt University as easy as possible.

As an ISC student, you can apply for on-campus accommodation. At the Edinburgh Campus the accommodation is within easy reach of your lectures, gym sessions or nights at the Student Union and all transport to the city.

Accommodation consists of self-catered residences. You will have your own bedroom with individual shower and toilet (en-suite) and share a kitchen with four to six other students. Facilities include:

- free broadband access
- TV lounge
- laundry
- 24-hour computer labs

Each accommodation block has a warden who is there to help you settle in and sort out any problems along the way. Alternative catered accommodation may be allocated when necessary.

If you want a break from cooking for yourself, there are plenty of places to buy food, depending on the time of day and type of food you want. Your choices include 'Elements', the Middle Floor Refectory, Café Brio and the Elements Bar, as well as the facilities in the Students' Union.

20 bedrooms on the Edinburgh Campus are equipped for students with mobility difficulties or students who are wheelchair users. These are in self-catering residences, most with accessible en-suite facilities, telephone and internet access.



Student support and welfare

As an international student, you will be fully supported by our dedicated staff. As you progress onto your degree programme, the high levels of support you receive will be maintained by the University's Student Support Service.

Heriot Watt provides a strong support service throughout your time at the University.

Our academic staff are a key part of the Student Support Service and provide general guidance for students. The on-campus Health Centre is always available to you and provides top quality medical, nursing and dental care. For advice on practical issues, the Student Welfare Service offer support on all kinds of issues including settling into University life, money, accommodation, disability and safety. The Student Counselling Service is on-hand to offer support should you ever need it.

CHAPLAINCY AND RELIGIOUS SERVICES

The Chaplaincy is open to everyone and welcomes those who are religious and those of no faith. All are welcome to use the chapel, prayer room and meeting room as a place of relaxation. There are also dedicated Muslim Prayer Rooms on-campus.

SPECIAL NEEDS

Students with special needs or disabilities can make an appointment with one of the medical staff when they arrive, in order to discuss their needs and how these can best be met. Heriot-Watt offers positive assistance and encouragement to students and applicants with special needs or disabilities and our buildings are accessible to people with mobility problems.

STUDENT INSURANCE

In our experience, it is essential that international students have the protection of personal insurance for the duration of their time in the UK.

For this reason we automatically add an insurance policy (called StudyCare) when you confirm your place. The full cost of StudyCare insurance is £8 per week, regardless of programme length. This insurance will cover you until the end of your ISC academic programme.

Full information about StudyCare insurance is published in the StudyCare policy booklet, available from the International Admissions Centre. Please refer to the inside back cover of this brochure for contact details. Alternatively, you can view information about StudyCare at www.hw.ac.uk/isc





The International Study Centre

The International Study Centre (ISC) offers international students direct entry to Postgraduate degrees at Heriot-Watt University via the Pre-Masters programme, and to the second year of Undergraduate degrees via the Undergraduate Certificate. You get a choice of routes into key subject areas and full access to the University's facilities.

ON THE UNIVERSITY CAMPUS

The ISC is based in a modern well-equipped facility on the University's Edinburgh Campus. You will be part of the University from the day you start your programme.

SPECIALIST PREPARATION FOR YOUR DEGREE

The Pre-Masters and Undergraduate Certificate programmes have been tailor-made for international students, combining academic modules with study skills and English language training to provide the best possible path to degree entry.

ACCESS TO UNIVERSITY FACILITIES

All the academic and social facilities at the University are available to you as an ISC student. You will also have full access to the Student Union which runs a wide range of student activities.

FLEXIBLE ENTRY

You can start the Undergraduate Certificate in either September or January. Pre-Masters entry is September, January or April, depending on your level of English. You will start your degree programme the following September.

DIRECT PROGRESSION TO YOUR DEGREE

Joining an ISC programme guarantees that you will receive a conditional offer of a postgraduate or undergraduate degree place at the University. Soon after you join, you will be helped to choose the degree programme onto which you want to progress. Once you have successfully completed the programme and have met the required entry standards, you will proceed directly to your taught Masters programme or the second year of your undergraduate degree at Heriot-Watt.

PERSONAL MONITORING AND SUPPORT

The Pre-Masters and Undergraduate Certificate programmes are validated by Heriot-Watt University and taught by Study Group, specialists in University preparation. Your progress will be monitored at all times to make sure you remain on track to successfully complete the programme. You will also benefit from regular assessment through examination and marked course work.

UNIVERSITY-STYLE TEACHING

The Pre-Masters and Undergraduate Certificate programmes at Heriot-Watt University introduce you to the style of teaching that you will experience when you progress onto your degree. You will experience tutorials, seminar style classes and larger group lectures.

ENGLISH LANGUAGE PREPARATION

If you require additional language training before you start your academic programme you can first join the intensive English Language Preparation (ELP) programme, delivered at the ISC.

See page 38 for details or visit www.hw.ac.uk/isc



HILARIO OLIVEIRA DO AMARAL GOURGIEL, ANGLOLAN, UNDERGRADUATE CERTIFICATE

"I LIKE MY CLASSES AND HAVE FOUND THE PROGRAMME AND MY TEACHERS TO BE EXCELLENT. MOST OF ALL, I AM ENJOYING MEETING PEOPLE FROM ALL OVER THE WORLD."

PRE-MASTERS

20 PRE-MASTERS PROGRAMME 22 STUDY STRUCTURE 24 MASTERS STUDY AT HERIOT-WATT

Pre-Masters Programme Specialist Preparation

The Pre-Masters is a tailor-made two or three-term programme of academic subjects, study skills and English language training. Designed specifically to meet the needs of international students, it provides a direct path to a Masters degree.

DEVELOPED FOR INTERNATIONAL STUDENTS The Pre-Masters is a programme designed specifically to prepare you fully for Masters study at the University.

PROGRESSION TO YOUR MASTERS DEGREE

Joining the Pre-Masters guarantees you will receive a conditional offer of a place on a choice of Masters degrees at the University. Once you have successfully completed the programme and have met the entry standards, you'll proceed directly to your preferred Masters programme (pages 24-28).

FLEXIBLE ENTRY

You can begin the three-term Pre-Masters in either September or January, or for those studying a two-term Pre-Masters you can begin in either January or April.

All start dates prepare you for progression onto your chosen Masters in the following September.

HOW MANY TERMS DO I REQUIRE?

If you have an IELTS of 6.0 or equivalent, you can study the two-term Pre-Masters, whilst if you have an IELTS of 5.0 or equivalent you can study the three-term Pre-Masters.

If you have an IELTS of 4.0, you will need to take an additional term of English Language Preparation, and two terms if you have an IELTS of 3.0 or equivalent.

THREE-TERM PRE-MASTERS

Entry dates

September 2011 or January 2012 (September to June or January to August) **Term dates** September start: Term 1 – 12/09/11 to 09/12/11 Term 2 – 09/01/12 to 23/03/12 Term 3 – 10/04/12 to 15/06/12

January start:

Term 1 – 09/01/12 to 23/03/12 Term 2 – 10/04/12 to 15/06/12

Term 3 – 18/06/12 to 24/08/12

MSc start date September 2012

Entry requirements

English language

- IELTS of 5.0 (minimum 5.0 in writing) or
- TOEFL 510 (180 computer-based test/64 internet-based test), or
- Pearson Test of English minimum 43, or equivalent
- Academic
- Recognised higher/advanced diploma in a related subject area, or
- Recognised degree in related field, or
- Honours degree in any subject (eg BA International Relations)

Tuition fees

See the enclosed application or visit www.hw.ac.uk/isc

Visit www.hw.ac.uk/isc for full information on entry requirements.



TWO-TERM PRE-MASTERS

Entry dates

January 2012 or April 2012

(January to June or April to August)

Term dates

January start: Term 1 – 09/01/12 to 23/03/12 Term 2 – 10/04/12 to 15/06/12 April start: Term 1 – 10/04/12 to 15/06/12

Term 2 – 18/06/12 to 24/08/12

MSc start date

September 2012

Entry requirements

English language

- IELTS of 6.0 (minimum 6.0 in writing) or
- TOEFL 547 (210 computer-based test/78 internet-based test)), or
- Pearson Test of English minimum 48, or equivalent Academic
- Recognised higher/advanced diploma in a related subject area, or
- Recognised degree in related field, or
- Honours degree in any subject (eg BA International Relations)

Tuition fees

See the enclosed application or visit www.hw.ac.uk/isc

Visit www.hw.ac.uk/isc for full information on entry requirements.

Pre-Masters Programme Specialist Preparation

STUDY STRUCTURE

As a three-term Pre-Masters student you will study three English language and academic study skills modules in term one and six academic modules in terms two and three. As a two-term Pre-Masters student you will study two language modules and six academic modules over two terms.

ENGLISH AND SKILLS FOR UNIVERSITY STUDY 1 (THREE-TERM ONLY), 2 AND 3

Over these three modules, you will develop your English communication skills and learn a range of study skills, including: writing and reading strategies, presentation and seminar participation, organisation of time and materials, meeting deadlines and responding to feedback.

When you have completed these modules, you will be able to take notes and write essays in English. You should also have the confidence to give presentations, answer follow-up questions and contribute to seminar discussions.

IMPROVING READING AND ACADEMIC VOCABULARY (THREE-TERM ONLY)

Reading academic texts can be difficult – this module will make it easier. It will improve your understanding of academic words and help you use them in your own work.

ACADEMIC BUSINESS ENGLISH SKILLS (THREE-TERM ONLY)

Enhance your English skills by focusing on a range of contemporary issues such as globalisation, the environment, business ethics, team work and business communications.

QUANTITATIVE METHODS IN BUSINESS

You will demonstrate and develop your numeracy skills and learn to utilise mathematical methods and techniques to inform the decision-making of managers.

ECONOMICS

This module strengthens your knowledge and understanding of economic theories and systems and equips you to examine information relevant to economics topics, problems and issues. Among the topics studied are economic models, the concept of allocative efficiency and the role of government.

BUSINESS AND MANAGEMENT 1

You will gain greater insight into the role played by sociology, psychology and economics in the development of business and management subject matter. You will also deploy your critical skills in the analysis of management styles and business related models, learn how to gather and interpret business related data and study the differences between qualitative and quantitative data collection.

FINANCE AND INVESTMENT

This module strengthens your understanding of the role played by finance and investment in the operation and strategic direction of the firm. It provides an in-depth analysis of the different types of business organisations, of risk and return and of the Capital Asset Pricing Model.

BUSINESS AND MANAGEMENT 2 – OPERATIONS MANAGEMENT AND ORGANISATIONAL BEHAVIOUR

You will develop further your understanding of the

key concepts of organisational behaviour, including management and leadership styles and the analysis of different cultural models. Operations management sessions will focus on supply chain management and inventory planning.

BUSINESS AND MANAGEMENT 3 – STRATEGY

You will develop your understanding of key models and concepts in the field of strategy. Building on your work in earlier modules you will consider topics such as resource and capability analysis, competitive advantage and corporate, global and diversification strategies. This module is assessed through a case study based on a FTSE100 company and so allows you to develop your skills as an independent learner, researching a range of materials and deploying techniques of critical analysis.



STUDY PLAN OPTIONS									
Current IELTS	Duration	Apr	Jun	Sept	Jan	Apr	Jun	Sept	
3.0 or equivalent	5 terms								
3.0 or equivalent	5 terms								
4.0 or equivalent	4 terms								
4.0 or equivalent	4 terms							Start Masters	
5.0 or equivalent	3 terms							Degree	
5.0 or equivalent	3 terms							Degree	
6.0 or equivalent	2 terms								
6.0 or equivalent	2 terms								
English Language Preparation				Pre-Masters				Vacation	

Masters study at Heriot-Watt **A first-class educational experience**

The relevance and quality of our programmes, our excellent study environment and the commitment of our staff are all recommended to those thinking of undertaking graduate study. Come and join around 1100 Masters students and 400 on-campus research postgraduates.

TEACHING EXCELLENCE

In 2009, Heriot-Watt opened a new multi-million pound Postgraduate Centre. It provides an opportunity for crosscultural and interdisciplinary exchange for postgraduate students. This community is currently 1500 strong with representation from around 100 countries.

The Postgraduate Centre has lecture theatres, seminar, study and social spaces. Advanced video-conferencing facilities enable research and teaching between oncampus and off-campus students at many partner institutions worldwide.

We are consistently rated as one of the top universities by leading national newspapers, and almost all research activity is independently assessed at international or national excellence levels.

I FARNING BENFFITS

We will provide you with the following:

- the opportunity to develop the skills, qualities and values characteristic of all Heriot-Watt graduate and postgraduate students, including the personal, professional and enterprise skills required by employers;
- work-based learning experiences so that the knowledge and skills can be put into practice. (Depending on the programme, this may range from placements to projects involving industry or business);
- the ability to use English to a high standard in an academic environment;
- a range of feedback mechanisms to enable you to learn from assessment and improve your performance;
- an international learning experience, reflecting Heriot-Watt's cultural diversity and the international flavour of programmes offered by the University.

PROGRESSION TO YOUR MASTERS DEGREE

The Pre-Masters leads to a range of specified MSc programmes in the fields of Management and Languages, Maths and Computer Science, The Built Environment and Life Sciences:

- International Business Management with International Finance
- International Business Management with Human Resource Management
- International Business Management with Marketing
- International Business Management with Logistics
- International Business Management with Sustainability
- Information Technology
- Construction Project Management
- Real Estate Investment and Finance
- Real Estate Management and Development
- Urban Regeneration
- Sustainable River Catchment Flood Management
- Water Resources and Catchment Management
- Engineering Psychology
- Business Psychology
- Applied Psychology

In addition, students can apply through the existing Pre-Masters route for a range of programmes on a case by case basis, including:

- Renewable Energy and Distributed Generation
- Bioprocessing
- Energy
- Forensic Science
- Sustainability Engineering
- Renewable Engineering
- System Level Integration
- Embedded Systems
- Mobile Communications





"I WOULD HIGHLY RECOMMEND HERIOT-WATT UNIVERSITY, BOTH THE PRE-MASTERS AND POSTGRADUATE MSc PROGRAMME FOR ANY INTERNATIONAL STUDENT. I HAVE THOROUGHLY ENJOYED MY TIME SO FAR HERE AND AM LOOKING FORWARD TO THE YEAR AHEAD ON MY MASTERS PROGRAMME."

NOY (SUMALEE JAIWANGYEN), THAI PRE-MASTERS, NOW STUDYING INTERNATIONAL ACCOUNTING AND FINANCE MSC

Masters degrees

Once you have completed the Pre-Masters and reached the required grade, you will progress to your chosen Masters degree. Following are just some of the options; for a full list and description visit www.hw.ac.uk/isc

INTERNATIONAL BUSINESS MANAGEMENT WITH EITHER MARKETING/HUMAN RESOURCE MANAGEMENT/FINANCE/ LOGISTICS OR SUSTAINABILITY MA

The programme is designed to enhance and build upon existing skills and/or experience to provide relevant business and management training and skills. Graduates who have little or no business or management background in their first degree and who wish to gain a broad based business qualification to enhance their future career prospects will strongly benefit from this programme, as will those looking to develop business management knowledge and skills to allow them to change or further their careers.

INFORMATION TECHNOLOGY (BUSINESS)

On this programme students gain understanding and skills in key business management and IT subjects at Masters level. It covers the design and development of IT systems, the management of IT projects, developing businesses, and e-commerce. Business courses aim to stimulate business ideas and encourage entrepreneurship.

CONSTRUCTION PROJECT MANAGEMENT

This programme equips graduates with the knowledge and skills to develop successful careers as professional project managers in the construction industry and beyond. The MSc programme is fully accredited by the Royal Institution of Chartered Surveyors and the Chartered Institute of Building, demonstrating its professional recognition and industrial relevance. The University is a Corporate Member of the Association for Project Management.

REAL ESTATE MANAGEMENT AND DEVELOPMENT

In such a complex market, it's important to understand all the factors that effect property management and development. This programme equips graduates to understand the interactions and dynamics of the property market, how financial markets work, how property development projects can be successfully carried out, how legal cases are constructed and won, and the factors that determine residential, commercial and industrial property values.

The MSc programme has professional accreditation from the Royal Institution of Chartered Surveyors so the programme is suitable for graduates with an interest in pursuing a career as a general practice chartered surveyor.

URBAN REGENERATION

The programme will provide knowledge of the factors affecting urban regeneration. Graduates gain skills in developing and evaluating initiatives that promote sustainable neighbourhoods.

REAL ESTATE INVESTMENT AND FINANCE

Graduates who want to understand property as an asset class within national and international investment markets will gain the skills needed to research, analyse and advise on investment decisions accordingly. The MSc programme is accredited by the Royal Institution of Chartered Surveyors (RICS).

SUSTAINABLE RIVER CATCHMENT FLOOD MANAGEMENT

The debate about climate change has reached a consensus that the kind of floods experienced in recent years may become more common. In response, graduates are required to implement measures to protect life, property, the environment and economic growth both in the UK and elsewhere. This programme considers everything from how the planning process should work in areas with potential flood risk, to catchment hydrology, flood hazard, environmental protection and the conceptual design of flood protection schemes.

WATER RESOURCES AND CATCHMENT MANAGEMENT

Recent droughts and floods in the EU, India, Australia, China, USA and Africa highlight the need for our water resources to be better managed. The aim of the programme is to provide a sound understanding of sustainable water resources issues by developing the knowledge and skills necessary for planning and management to meet the needs of the built and natural environment within the context of climate change. The programme is managed by the Sustainable Water Management Research Group, one of the UK's leading environmental water management research groups.



BUSINESS PSYCHOLOGY

The programme is aimed at people already in, or aspiring towards, a career in any business setting. It provides detailed understanding of all those aspects of psychology relevant to the workplace.

APPLIED PSYCHOLOGY

Applied psychology trains students to apply knowledge of psychological theory and evidence to solving realworld problems. This is a distinctive programme that Heriot-Watt is proud to offer.

UNDERGRADUATE CERTIFICATE PROGRAMMES

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36 MATHEMATICS, COMPUTER SCIENCE AND INFORMATION SYSTEMS

The Undergraduate Certificate

The Undergraduate Certificate is a programme of academic subjects, study skills and English language training designed specifically to provide international students with a direct path to the second year of their degree at the University.

UNIVERSITY-STYLE TEACHING

The Undergraduate Certificate replaces the traditional first year of a degree programme.

It introduces you to the style of teaching that you will experience when you progress onto the second year of your degree. This will include tutorials, seminar-style classes and larger group lectures.

STUDY STRUCTURE

The Undergraduate Certificate is modular in structure. You can choose one of three routes:

- Business and Management
- Engineering
- Mathematics, Computer Science and Information Systems

ASSESSMENT

You will be assessed regularly throughout the programme. This will ensure that your progress is on track to achieve the standard required for progression onto your chosen degree programme.

Your development is monitored through:

- End of module/term assessments: a combination of examinations and assessments of coursework, presentations, and extended essays.
- Continuous coursework: mixture of lecture classes, small-group seminar work and directed self-study.
- A series of presentations and extended essays as part of your overall assessment.

Entry dates

September 2011 or January 2012 (September to June or January to August) **Term dates**

September start

Term 1 – 12/09/11 to 09/12/11 Term 2 – 09/01/12 to 23/03/12 Term 3 – 10/04/12 to 15/06/12 January start Term 1 – 09/01/12 to 23/03/12 Term 2 – 10/04/12 to 15/06/12 Term 3 – 18/06/12 to 24/08/12

Entry requirements

English language

- IELTS of 5.0 (minimum 4.5 in writing) or
- TOEFL 510 (180 computer-based test/64 internet-based test), or
- Pearson Test of English minimum 43, or equivalent* Academic
- Good high school graduation grades, or equivalent **Tuition fees**

See the enclosed application or visit www.hw.ac.uk/isc

Visit www.hw.ac.uk/isc for information on entry requirements.

*if you do not have an IELTS or equivalent test, you can take our ISC Pre-Arrival English Test

Progression from the Undergraduate Certificate

Undergraduate teaching is structured around a number of schools of study. Once you have completed your Undergraduate Certificate and embarked upon your degree programme, you will be registered in one of the Academic Schools, depending on your degree subject.

SCHOOL OF MANAGEMENT AND LANGUAGES

The School is one of the University's largest and is internationally recognised as a leading provider of high quality education and research in its key areas of expertise. Progression degrees include:

- Accountancy and Finance
- Business and Management
- Economics
- Languages and Intercultural Studies

SCHOOL OF THE BUILT ENVIRONMENT

The School offers a range of educational opportunities spanning the professions involved in the planning, design, construction and development of our environment and infrastructure. It is one of the leading Built Environment research institutions in the UK. Progression degrees include:

- Architectural Engineering
- Civil Engineering and Structural Engineering
- Construction Management and Surveying
- Urban Studies

SCHOOL OF ENGINEERING AND PHYSICAL SCIENCES

The School enjoys an international reputation for its research and its close connection with the professional and industrial world of sciences, engineering and technology. Progression degrees include:

- Physics
- Chemical Engineering (with Oil and Gas Technology)
- Chemistry
- Electrical, Electronic and Computer Engineering
- Engineering
- Mechanical Engineering

SCHOOL OF LIFE SCIENCES

The School has a number of specialist centres that aid teaching and research, including the world renowned International Centre for Brewing and Distilling and the Centre for Marine Biodiversity and Biotechnology. Interests span the life sciences, from microbe to human, and the impact of man on terrestrial and marine environments. Progression degrees include:

- Psychology (Applied)
- Biology

SCHOOL OF MATHEMATICAL AND COMPUTER SCIENCES (MACS)

The departments within MACS cover three areas mathematics, actuarial mathematics and statistics, and computer science. MACS offers strong research and postgraduate programmes and a wide range of high quality undergraduate courses. It has top research and excellent teaching ratings and is a lively international centre for leading-edge developments and exciting new programmes. Progression degrees include:

- Computer Science
- Mathematics

SCHOOL OF TEXTILES AND DESIGN

The School is a centre of excellence for study and research in textiles and related industries. Programmes match the needs of the high-tech textiles and fashion industries and is one of the world's leading textile and fashion schools. It is engaged in leading-edge research projects in textiles, design, fashion, clothing and colour science. Degrees include:

- Fashion
- Fashion Communication
- Fashion Marketing and Retailing
- Interior Design

BUSINESS AND MANAGEMENT

Undergraduate Certificate

Three terms: September to June or January to August

September 2011 or January 2012

erm dates

September start: Term 1 – 12/09 to 09/12/11 Term 2 – 09/01 to 23/03/12 Term 3 – 10/04 to 15/06/12

January start : Term 1 – 09/01 to 23/03/12 Term 2 – 10/04 to 15/06/12 Term 3 – 18/06 to 24/08/12

Entry requirements Academic:

- Good high school
 graduation grades or
 equivalent
- English language: • Minimum IELTS 5.0 (4.5 in writing), or
- TOEFL 510 (180 computerbased test/64 internetbased test), or
 Pearson Test of English minimum 43, or equivalent

Age

Students are normally 17 years old

ACADEMIC STRUCTURE

CORE SUBJECTS

English and Skills for University Study 1, 2 and 3

Over these three modules you will develop your English communication skills and learn a range of study skills, including: writing and reading strategies; presentation and seminar participation; organisation of time and materials, meeting deadlines and responding to feedback.

At the end of these modules you will be able to use English language in your own academic work, give well-structured presentations, confidently answer follow-up questions and contribute to seminar discussions; take notes from readings and lectures; plan, develop and write well-structured academic essays and be confident in self-directed learning strategies.

Project Study

You will complete a self-study project related to the academic discipline you will study at degree level. Your personal tutor will help you choose a suitable project.

Core Mathematics

This module contains both algebra and statistics. You will develop your knowledge and understanding of mathematical terms and techniques and apply these to solving problems, frequently drawn from practical and real-life situations.

SPECIFIC ROUTE MODULES

Principles of Economics 1

You will be taught to understand economic systems, types of goods, allocation of resources, price elasticity and price controls, types of markets, cost and revenue, economies of scale and market failure.

Principles of Economics 2

You will learn about aggregate demand and aggregate supply, economic policies, inflation, unemployment, international trade and development economics.

Introduction to Business Studies 1

In this module you focus on a wide range of issues, such as management styles, human resource practice and marketing.

Introduction to Business Studies 2

You will develop your understanding of the operational and strategic problems and ethical issues facing business people in the modern market economy.

Introduction to Management Accounting

You will be introduced to the role of management accounting and how it provides managers with information for decision-making, planning and control.

Introduction to Financial Accounting

You will learn about double entry bookkeeping, preparation of trial balances, profit and loss statements, depreciation, limited companies, manufacturing accounts and interpretation of accounts.

LEADING TO DEGREES IN:

Accountancy and Business Law Business and Economics Accountancy and Finance Business and Finance Business Management Business Management with Business Business Management with Enterprise Business Management with Human Resource

Business Management with Marketing Economics

Economics and Accountancy Economics and Business Law Economics and Business Management Economics and Finance Economics and Marketing International Business Management Management with Business Law Planning and Property Development Psychology (Applied) Psychology Psychology with Management



Tuition fees

For details please see the enclosed application or visit www.hw.ac.uk/isc

If you do not have an IELTS or equivalent you can take our ISC Pre-Arrival English Test. Visit www.hw.ac.uk/isc for details of entry requirements, tuition fees and progression grades.

Undergraduate Certificate

Three terms: September to June or January to August

September 2011 or January 2012

SPECIFIC ROUTE MODULES

You will study further algebra, coordinate geometry,

trigonometry, differentiation, integration, numerical

You will look at vectors, forces and equilibrium, relative motion, Newton's Laws of Motion, friction and work,

You will continue the study of Mathematics by looking at advanced vectors, forces as fixed vectors, centres of

You will cover sound, reflection, refraction, interference,

diffraction, electromagnetic waves, strengths of solids, fluids, heat and gases and the structure of the atom.

gravity/centres of mass and particle dynamics.

Physics 1: Properties of Matter And Waves

Physics 2: Electricity, Electronics and Fields

You will study electrical current and charge, potential

amplifiers, electrical fields, gravitational, magnetic, and

difference, resistance, capacitance, transistors and

Pure Mathematics 2

methods and vectors.

energy and power.

Applied Mathematics 1

Applied Mathematics 2

electromagnetic fields.

September start: Term 1 – 12/09 to 09/12/11 Term 2 – 09/01 to 23/03/12 Term 3 – 10/04 to 15/06/12

January start : Term 1 – 09/01 to 23/03/12 Term 2 – 10/04 to 15/06/12 Term 3 – 18/06 to 24/08/12

- Entry requirements Academic: Good high school graduation grades or equivalent
- English language: • Minimum IELTS 5.0 (4.5 in writing), or
- based test/64 internetbased test), or • Pearson Test of English minimum 43, or equivalent

• TOEFL 510 (180 computer-

Students are normally 17 years old

ACADEMIC STRUCTURE

CORE SUBJECTS

English and Skills for University Study 1, 2 and 3

Over these three modules you will develop your English communication skills and learn a range of study skills, including: writing and reading strategies; presentation and seminar participation; organisation of time and materials, meeting deadlines and responding to feedback.

At the end of these modules you will be able to use English language in your own academic work, give wellstructured presentations, confidently answer follow-up guestions and contribute to seminar discussions; take notes from readings and lectures; plan, develop and write well-structured academic essays and be confident in selfdirected learning strategies.

Project Study

You will complete a self-study project related to the academic discipline you will study at degree level. Your personal tutor will help you choose a suitable project.

Core Mathematics

This module contains both algebra and statistics. You will develop your knowledge and understanding of mathematical terms and techniques and apply these to solving problems, frequently drawn from practical and real-life situations.

Pure Mathematics 1

You will look at and interpret straight lines and linear equations, set theory and probability, understand statistics, linear programming, indices, logarithms and experimental laws.

LEADING TO DEGREES IN:

Automotive Engineering Architectural Engineering Chemical Engineering plus Diploma in **Industrial Training** Civil Engineering Civil Engineering with International Studies Structural Engineering

Structural Engineering with Architectural Design Structural Engineering with International Studies Building Surveying Construction Project Management Quantity Surveying Electronic and Photonic Engineering Electronic Engineering with Imaging

Science and Technologies Civil and Environmental Engineering Chemical Engineering Chemical Engineering with Energy Engineering Chemical Engineering with Pharmaceutical Chemistry Chemical Engineering with Oil and Gas Chemistry with Materials

Chemistry with Nanotechnology Computational Physics **Computing and Electronics** Electrical and Electronic Engineering Electrical and Electronic Engineering (Real time control and robotics) Electrical and Electronic Engineering (Microwaves and Photonics Engineering) Electrical and Electronic Engineering

(Sustainable Energy Systems) Electrical and Electronic Engineering (Power and High Voltage Engineering) Electrical and Electronic Engineering (Mobile and Digital Communications) Electrical and Electronic Engineering (Computer and Internet Engineering) Engineering Physics Mechanical Engineering



For details please see the enclosed application or visit www.hw.ac.uk/isc

If you do not have an IELTS or equivalent you can take our ISC Pre-Arrival English Test.

Visit www.hw.ac.uk/isc for details of entry requirements, tuition fees and progression grades.

Mechanical Engineering and Energy Engineering Nanoscience Photonics and Lasers Physics Physics with Electronic Engineering Physics with Environmental Science Robotics and Cybertronics

Undergraduate Certificate

Three terms: September to June or January to August

September 2011 or January 2012

September start: Term 1 – 12/09 to 09/12/11 Term 2 – 09/01 to 23/03/12 Term 3 – 10/04 to 15/06/12

January start : Term 1 – 09/01 to 23/03/12 Term 2 – 10/04 to 15/06/12 Term 3 – 18/06 to 24/08/12

Entry requirements Academic:

- Good high school graduation grades or equivalent
- English language: • Minimum IELTS 5.0 (4.5 in
- writing), or
- TOEFL 510 (180 computerbased test/64 internetbased test), or • Pearson Test of English minimum 43, or equivalent

Students are normally 17 years old

ACADEMIC STRUCTURE

CORE SUBJECTS

English and Skills for University Study 1, 2 and 3

Over these three modules you will develop your English communication skills and learn a range of study skills, including: writing and reading strategies, presentation and seminar participation, organisation of time and materials, meeting deadlines and responding to feedback.

When you have completed these modules you will be able to take notes and write essays in English. You should also have the confidence to give presentations, answer followup questions and contribute to seminar discussions.

Project Study

You will complete a self-study project related to the academic discipline you will study at degree level. Your personal tutor will help you choose a suitable project.

Pure Mathematics 1

You will learn to understand and interpret straight lines and linear equations, set theory and probability, statistics, linear programming, indices and logarithms and experimental laws.

SPECIFIC ROUTE MODULES

MATHEMATICS AND COMPUTER SCIENCE ROUTES

Applied Mathematics 1

You will look at vectors, forces and equilibrium, relative motion, Newton's Law of Motion, friction and work, energy and power.

MATHEMATICS ROUTE

Pure Mathematics 2

You will deepen your understanding of algebra, co-ordinate geometry, trigonometry, differentiation, integration, numerical methods and vectors.

Choose one from:

Physics 1: Properties of Matter And Waves

You will cover sound, reflection, refraction, interference, diffraction, electromagnetic waves, strengths of solids, fluids, heat and gases and the structure of the atom. Or

Introduction to Business Studies

You will focus on a wide range of issues, such as management styles, human resource practice and marketing.

Choose one from:

Principles of Economics 1

You will look at economic systems, types of goods, allocation of resources, elasticity, and price controls, types of markets, cost and revenue, economies of scale and market failure.

Or Introduction to Management Accounting

You will learn how management accounting helps managers in decision-making, planning and control. Or

Physics 2: Electricity, Electronics and Fields

You will study electrical current and charge, potential difference, resistance, capacitance, transistors and amplifiers, electrical fields, gravitational, magnetic, and electromagnetic fields.

Choose one from:

Principles of Economics 2

You will learn about aggregate demand and aggregate supply, economic policies, inflation, unemployment, international trade and development economics. Or

Applied Mathematics 2

You will look at advanced vectors, forces as fixed vectors, centres of gravity/centres of mass and particle dynamics.

COMPUTER SCIENCE ROUTE

Computing 1

You will develop an understanding of the range of problems that relational database applications can help to solve and the principles applied in providing solutions. You will be introduced to the basic system analysis and design and will acquire the skills and systematic methods of implementing, testing and documenting database solutions.

Computing 2

In this module you will learn Hypertext Mark-up Language (XHTML) used in the creation and display of pages on the World Wide Web. You will be introduced to interactive web page design and will use JavaScript programming language to give added functionality.

Computing 3

In this module you will be introduced to object-orientated programming and will develop an understanding of further computing concepts such as programming algorithms, the application of basic usability and good design as applied to program interfaces and OOP design of classes, objects, methods and data.

Pure Mathematics 2

Continue your studies in this subject and deepen your understanding of algebra, co-ordinate geometry, trigonometry, differentiation, integration, numerical methods and vectors.

LEADING TO DEGREES IN:

Computer Science Information Systems Mathematics Mathematics with Computer Science hematics and Computer Science hematics with Economics Mathematics with Management

Mathematics with Physics** Mathematics with Statistics** Software Engineering **Mathematics with Statistics**

For details please see the enclosed application or visit www.hw.ac.uk/isc

If you do not have an IELTS or equivalent you can take our ISC Pre-Arrival English Test.

Visit www.hw.ac.uk/isc for details of entry requirements, tuition fees and progression grades.

INFORMATION SYSTEMS ROUTE

Core Mathematics

Contains both algebra and statistics. Develop your knowledge and understanding of mathematical terms and techniques and apply these to solving problems, frequently drawn from practical and real-life situations.

Computing Information Technology 1

Develop an understanding of database applications, systems analysis and design. Learn how to apply this understanding to develop problems and solutions.

Computing Information Technology 2

Learn the basics of Hypertext Mark-up Language (XHTML) used in the creation and display of pages online. Learn about programming languages that develop web page functionality (with a focus on JavaScript).

Computing Information Technology 3

Gain further valuable knowledge to proceed onto a degree programme in the area of computing sciences. This includes looking at object-orientated programming.

Introduction to Business Studies

Focus on a wide range of issues, such as management styles, human resource practice and marketing.

Introduction to Management Accounting

Get an introduction to the role of management accounting in providing managers with the information for decisionmaking, planning and control.

* subject to validation ** progression to Year One only

English Language Preparation (ELP)

If you need to improve your English language to the required level for your ISC academic programme, you can take our English Language Preparation programme at the ISC.

UNDERGRADUATE CERTIFICATE

You will need an IELTS of 5.0 (with 4.5 in writing) or equivalent to start the programme.

If you have IELTS 4.0 or equivalent, you will need one term of ELP.

You can start in June, prior to Undergraduate Certificate start in September, or in September prior to Undergraduate Certificate start in January.

If you have an IELTS 3.0 or equivalent, you will need two terms of ELP. You can start in April prior to Undergraduate Certificate start in September, or in June prior to Undergraduate Certificate start in January.

PRE-MASTERS PROGRAMME

You will need an IELTS of 5.0 (with 5.0 in writing) or equivalent to start the 3-term Pre-Masters programme. If you have an IELTS of 4.0, you will need one term of ELP.

You can start in either June for Pre-Masters start in September or in September for Pre-Masters start in January.

If you have an IELTS of 3.0, you will need two terms of ELP. You can start in either April for Pre-Masters start in September or in June for Pre-Masters start in January.

* April start date subject to availability

START DATES

Two term: April or June One term: June or September



An application form is enclosed with this prospectus. Further forms are available from your local representative or online at www.hw.ac.uk/isc. Your application will need to include all copies of academic transcripts and certificates of English language qualifications. If you do not have an IELTS or similar test you can take our ISC Pre-Arrival English Test.

Please note: all students' English and numeracy skills will be tested on arrival and study plans may be changed accordingly. This can incur additional costs.

TO APPLY DIRECTLY

You can apply directly by contacting a Student Enrolment Adviser online at www.hw.ac.uk/isc

Alternatively, send your completed application to the address printed at the bottom of the form.

TO APPLY THROUGH YOUR LOCAL REPRESENTATIVE

Complete the application form and return it to your local educational representative.

TUITION FEES

Details of tuition fees can be found in the enclosed application form or at www.hw.ac.uk/isc



FOR FURTHER INFORMATION

If you need further information, our expert Student Enrolment Advisers are available to provide help and advice. You can contact them online or on: +44 1273 339333

ENTRY REQUIREMENTS AND PROGRESSION GRADES

Students can find detailed entry requirements in the 'Admission' section at: www.hw.ac.uk/isc

Students can find required grades for progression to the University in the 'Your degree' section at: www.hw.ac.uk/isc

Agents can find this information on the Heriot-Watt ISC page at: studygroup.com/partners

ABOUT THE PRE-MASTERS AND UNDERGRADUATE CERTIFICATE PROGRAMMES

The Pre-Masters and Undergraduate Certificate programmes at Heriot-Watt University International Study Centre are run by Study Group, a world leader in education and training for international students. Every year, Study Group provides exceptional educational programmes for 50,000 students from 120 countries.



International Admissions Centre 1 Billinton Way Brighton BN1 4LF United Kingdom T: +44 1273 339333

Every effort has been taken to ensure the accuracy of information in this publication at the time of going to press. For updated information visit www.hw.ac.uk/isc

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