HERIOT WATT UNIVERSITY

UK | DUBAI | MALAYSIA

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UNDERGRADUATE PROSPECTUS 2022

BE FUTURE MADE IN EDINBURGH

FutureMade is to look to the future, strive for better, aim for higher, make history. A future that mirrors our pioneering roots in 1821, the year we were founded as the world's first Mechanics Institute.

By choosing to study at Heriot-Watt today you will become part of a community working across boundaries and cultures. Collaborating with international business and industry to tackle the global challenges faced by the world we live in. Heriot-Watt undergraduates are highly employable and sought after by the best organisations worldwide.

www.hw.ac.uk/undergraduate

FUTURE MADE SINCE 1821

HERIOT WATT UNIVERSITY | 200 Years

For 200 years our education and innovative research has had a profound social impact on a world stage. A pioneer in bringing education to working people, Heriot-Watt was founded as the world's first Mechanics Institute. This year, as we celebrate our 200th Anniversary, that ethos continues to underpin the industry-informed education that gives our undergraduate students the drive to hit the ground running and be FutureMade in their career of choice.

Our focus across all our campus locations is to play a leading role in the global pandemic recovery. In particular, we are stepping up our industry collaborations and partnerships; focusing our research strengths and 'in-demand' skills in subjects ranging from Data Science, Healthcare Technologies, Cyber Security and Renewable Energy to Artificial Intelligence, Robotics, Logistics, Business Management and Marketing. Our aim is to connect you to people and career opportunities across the world through our international campus locations and our 140,000 alumni in 190 countries.

PROFESSOR RICHARD A. WILLIAMS
OBE, FREng, FRSE, FTSE
Principal and Vice-Chancellor

Here at Heriot-Watt, the Student Union works in close partnership with the University to provide the best student experience possible. From clubs and societies to big charity events, we make sure you have all the opportunities you could need. We also take volunteering very seriously, and all volunteering you do during your time at University will be shown on your academic transcript when you graduate, celebrating your extra-curricular achievements. Heriot-Watt really is one big family, and we can't wait to welcome you in.

EMILY LUCY KING
Student Union President
Scottish Campuses

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RESEARCH WITH IMPACT
Our research makes a real difference to people and the world we live in. From tackling climate change, to pushing the boundaries in artificial intelligence and the future of global business logistics, we are leading the way. That's why we are 9th in the UK in the Research Impact rankings.

LEARNING THROUGH DOING
Our approach to learning is informed by our research strengths and aligned to the needs of industry and the professions. Our students get real exposure to the industries they want to work in – through hands-on practical learning in our labs, projects, internships and industry case studies – that's why we are No 1 in Scotland for graduate employability.

A TRULY GLOBAL PERSPECTIVE
Some universities claim to be global, but at Heriot-Watt we have both an international reputation and global campuses that provide opportunities like no other. Our perspective on the world and your future career path is truly global and can take you further than you could imagine.

A SPECIALIST IN THE SUBJECTS THAT MATTER
From science and engineering, to all paths of business, mathematics, computer science and design, we strive for academic excellence and real-world relevance in all our subject areas. We offer degree programmes that are valuable to you, potential future employers and society.

ONE HERIOT-WATT
Across our five academic schools, five global campuses, and our Edinburgh Business School, by choosing Heriot-Watt you will join a community of over 27,000 students and an alumni network of over 140,000, who stand shoulder to shoulder with our faculty of leaders in ideas and solutions.

WHAT'S DIFFERENT ABOUT HERIOT-WATT

"Heriot-Watt is on the edge of Edinburgh, which is the most culturally rich city in the UK. The campus itself is beautiful and breathtaking, with green everywhere you look – the perfect environment for any student. University for most of us is a place where we grow and discover ourselves. Heriot-Watt is the perfect place for this because of its welcoming community atmosphere."

RUVIMBO HUNGWE
BSc Biological Sciences (Microbiology)

Graduate salaries 1st in Scotland and 17th in the UK six months after graduation

7th in Scotland and 35th in the UK out of 131 universities

THE TIMES THE SUNDAY TIMES GOOD UNIVERSITY GUIDE 2021

Heriot-Watt opened its doors as the world's first Mechanics Institute in 1821 and is the 8th oldest higher education institution in the UK. In 2021 we celebrate our 200th anniversary – a unique milestone, which provides a major opportunity to celebrate all that the University has achieved. We are busy planning a calendar of events to mark this very special occasion. Do keep an eye on our website for further updates.

PROFESSOR RICHARD A. WILLIAMS
OBE, FREng, FRSE, FTSE
Principal and Vice-Chancellor

A GLOBAL COMMUNITY SPIRIT

#OneWatt
#DoWattMatters

2020 will be remembered as a year of unprecedented uncertainty as the world dealt with the COVID-19 pandemic. It will also be remembered as a year that truly demonstrated the global spirit of our communities across the world. From developing a global vaccine delivery mechanism, to making masks and scrubs for healthcare professionals and the NHS, our students, staff and alumni demonstrated an "in this together" attitude to help make a difference in the real world.

SAFEGUARDING TEAM WIN AWARDS FOR COVID-19 EFFORTS

The awards were for Major Incident Management and Contribution to the Higher Education Sector, made by The Higher Education Business Continuity Network. "It's fantastic that our Safeguarding team have been recognised for their efforts, especially in these extreme times," said Principal and Vice-Chancellor Richard A. Williams. "The team provide 24/7 support to the whole University community. Their professionalism, excellence of care and sector-leading achievements are underscored by these two prestigious external awards."

YOUR FUTURE MADE THROUGH FLEXIBLE AND ONLINE LEARNING

Flexible ways to study is part of our DNA at Heriot-Watt

As pioneers in flexible and online learning, we have a range of study options to suit your lifestyle wherever you are in the world.

From full-time, on-campus to online, together with our new model of Responsive Blended Learning, the choice of how to study can be yours. However you study you will receive an inspiring experience – rooted in high quality provision which is the hallmark of a Heriot-Watt education.

We have excellent resources for remote study including the Virtual Learning Environment (VLE) where you can access everything you need for your particular programme. In addition to academic staff support, we have a dedicated Online Student Support Team who can guide you on your academic journey. The University library, careers team, and all other services are accessible to you.

CONNECTED WHEREVER YOU ARE

However you access your learning, you will join a genuinely connected community of learners and feel part of the University wherever you are. You can engage with our global learning community, and your course colleagues, both in real-time and asynchronously.

RESPONSIVE TO CHANGING CIRCUMSTANCES

Our Responsive Blended Learning (RBL) model has been introduced to ensure all new students can begin the academic year on schedule, wherever you may be in the world. RBL combines active, supported online learning with face-to-face learning opportunities, enabling you to learn alongside your peers, engage fully with your programme, and be guided and supported by your academic course team. With RBL you'll receive an enhanced induction, and training to help you learn online, and a responsive solution to the learning journey you wish to pursue.

BE FUTURE MADE

A pioneer of online learning for over 20 years: www.hw.ac.uk/online

WATT OUR STUDENTS THINK

Read some student reaction to returning to campus during Semester 1, September, 2020

"Lecturers and teaching staff are really dedicated to making the situation work for everyone. I feel very confident that RBL will have no negative impact on my overall learning experience."

Returning UG, Edinburgh

"We all really appreciate the staff for putting in so much effort. It's rocky for them too but I feel we're doing good and there's mutual care and support."

Returning UG, Dubai

"I love that we can learn at our own pace, and there's no need to commute, so learning feels super flexible. Recordings of lectures from different campuses are very helpful for solidifying my knowledge too and much appreciated."

Returning UG, Malaysia

REPUTATION AND RANKINGS

Heriot-Watt is valued for conducting ground-breaking research which is relevant to business and industry. We aim to find radical innovations and solutions to real-world challenges for the benefit of society.

Awarded Queen's Anniversary Prize 2019 for work to address extreme forms of social disadvantage

Ranked top ten in the UK

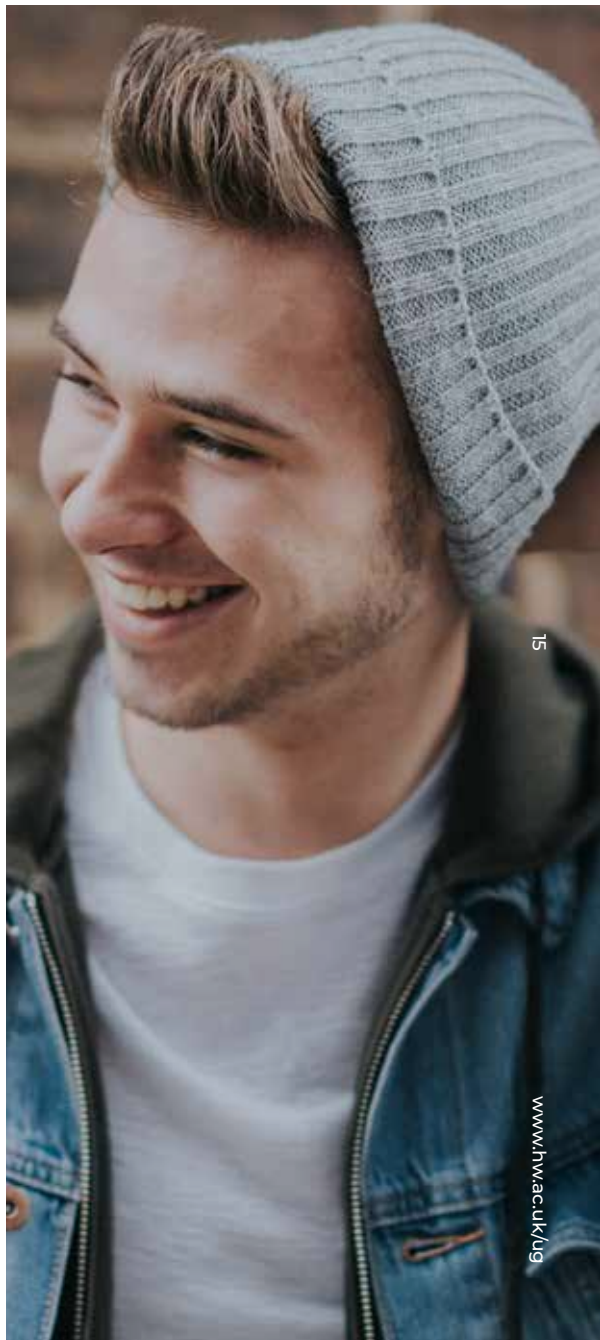
Building, Chemical Engineering, Civil Engineering, Electrical and Electronic Engineering, General Engineering, Mathematics, Mechanical Engineering, Physics and Astronomy and Town and Country Planning.
Times/Sunday Times Good University Guide 2021

World-class research

The Research Excellence Framework (REF) 2014 ranked Heriot-Watt 9th university in the UK for impact with 82% of research ranked world-class.

STUDYING WITH US
We will bring you into contact with leading researchers who are working on some of the most important areas for twenty-first-century society. Over 80% of academic staff are currently engaged in research at internationally-recognised levels, delivering research as diverse as providing greater equality for deaf people, helping to manage risk in the insurance industry and enhancing oil extraction from the North Sea. As part of our community you will benefit from an environment focused on making a real and lasting contribution to issues that matter, and discover opportunities to make your own impact.

WORLD-LEADING RESEARCH
We have excellent facilities, highly-rated teaching and world-leading research activity which together provide an exceptional learning and teaching experience. As part of a bright, committed and imaginative community of undergraduates you will have the opportunity to realise your potential by gaining the knowledge and skills you need to achieve your career aspirations.



2021 OPEN DAYS

Open Days and Campus Tours are a great opportunity to experience what life is really like at Heriot-Watt. Tour our modern, spacious campuses. See all aspects of student life. Find out more about subject choices. Bring along family and friends.

To find out more and book your place
www.hw.ac.uk/opendays

Book a Campus Tour
www.hw.ac.uk/campustours

EDINBURGH CAMPUS

SATURDAY 25 SEPTEMBER
SATURDAY 23 OCTOBER

SCOTTISH BORDERS CAMPUS

FRIDAY 1 OCTOBER
FRIDAY 5 NOVEMBER

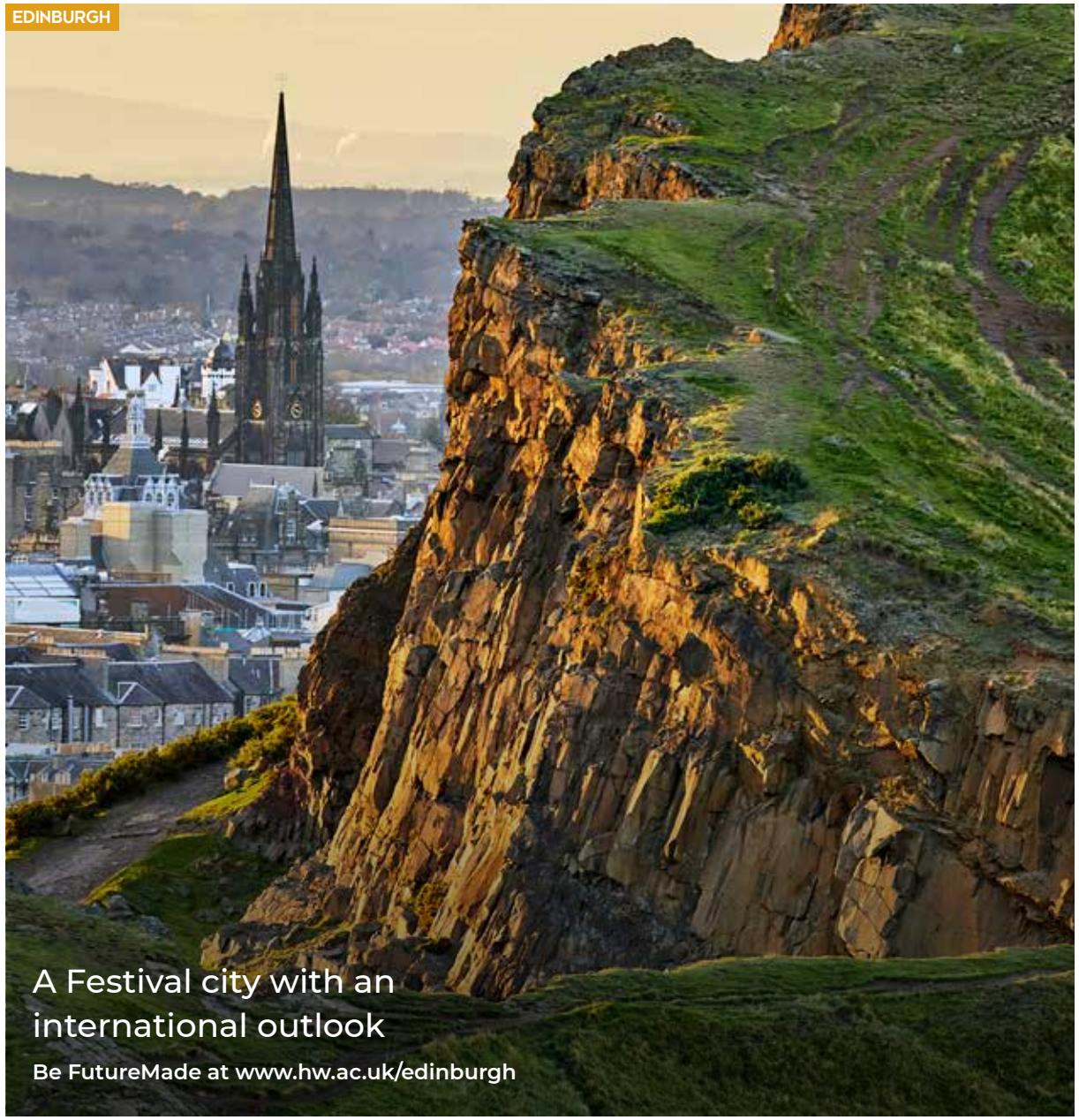
STUDENT RECRUITMENT SERVICE
If the dates of our Open Days are not convenient for you we can arrange an informal tour of the campus and our facilities at a time that suits you. Our Student Recruitment team will be happy to talk to you and show you around. Our academic Schools also organise Offer Holder Days for students who have applied to the University.
E: **studentrecruitment@hw.ac.uk**

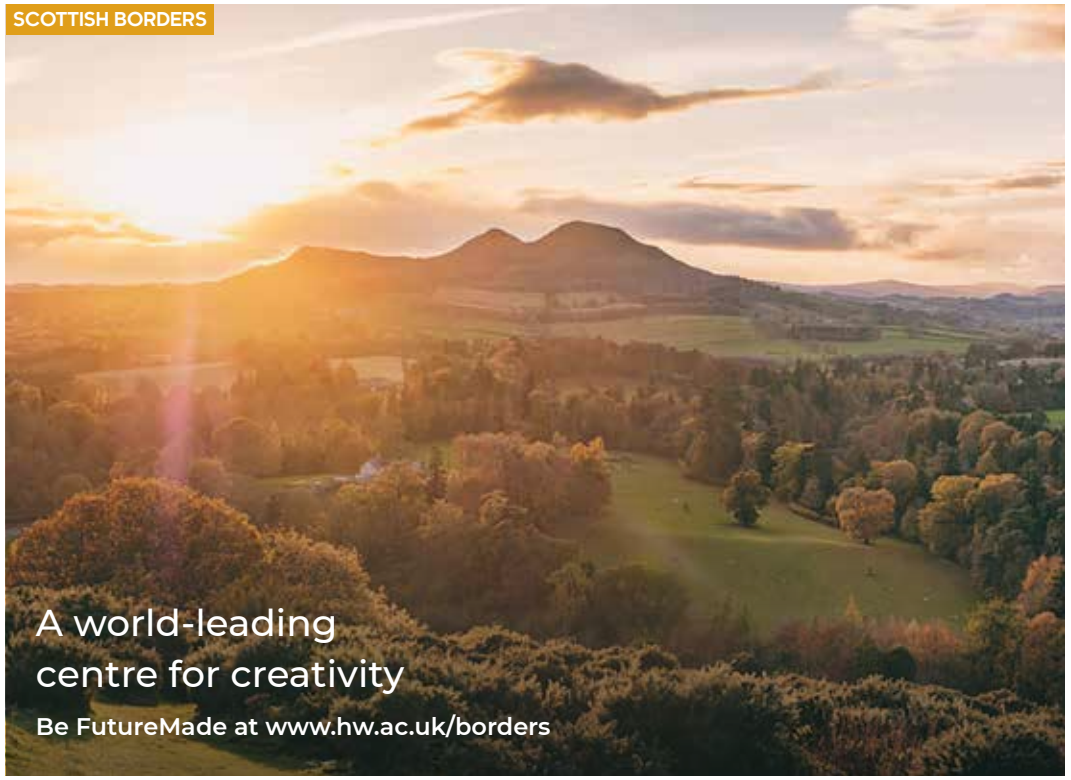
If you can't make it to our campuses, explore them online with our virtual tours and Open Day video.
www.hw.ac.uk/virtual-tours
www.hw.ac.uk/opendayvideo

UK Recruitment Team
T: 0131 451 3451
E: **studentrecruitment@hw.ac.uk**

International Recruitment Team
T: +44 (0) 131 451 3707
E: studentrecruitment@hw.ac.uk
www.hw.ac.uk/international

A GLOBAL UNIVERSITY





Tour International Campuses at www.hw.ac.uk/virtual-tours

DUBAI

World-class education tailored to UAE industry needs

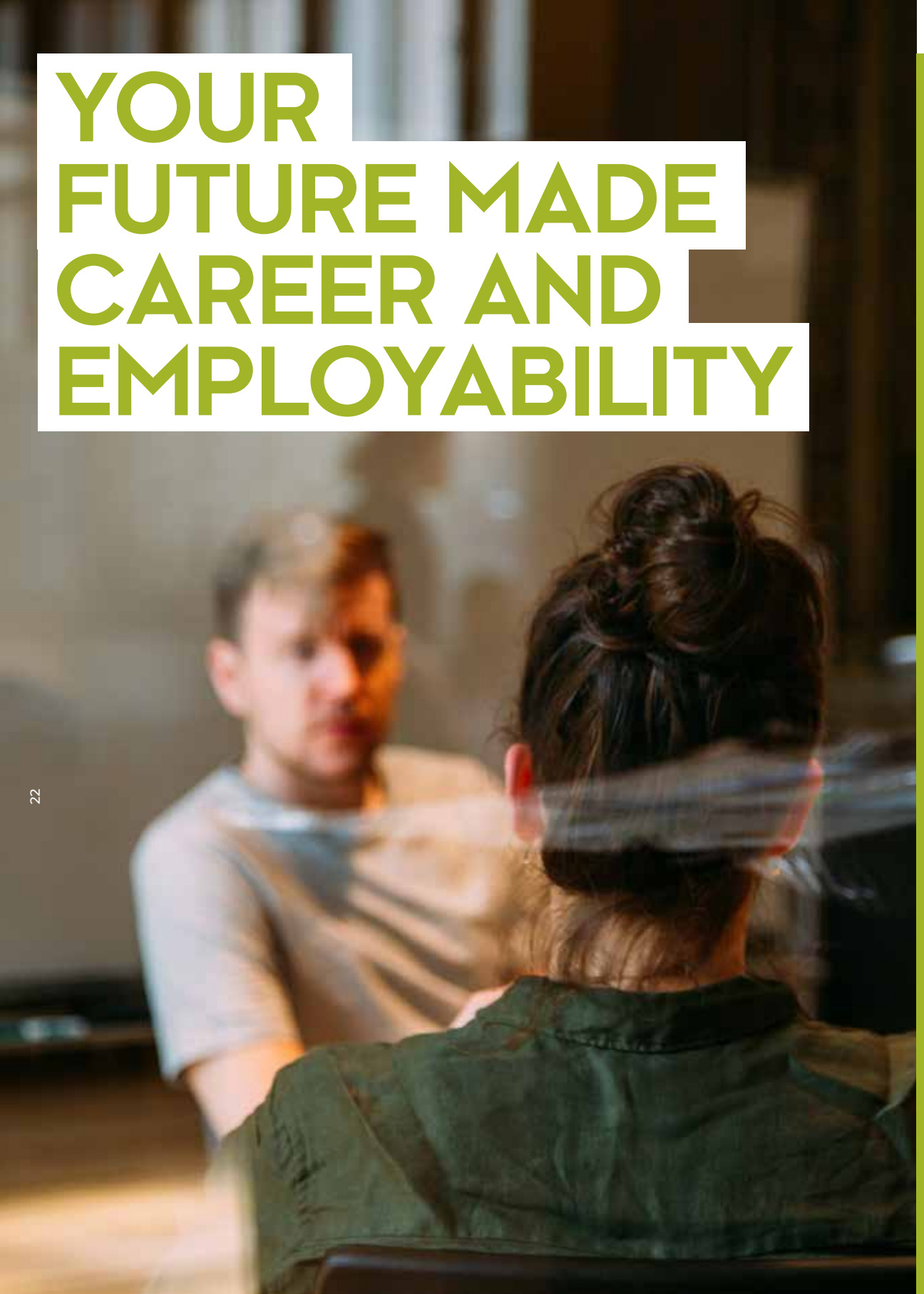
Be FutureMade at www.hw.ac.uk/dubai

MALAYSIA

An inspirational place to study

Be FutureMade at www.hw.ac.uk/malaysia

YOUR FUTURE MADE CAREER AND EMPLOYABILITY



"As a significant leader in employability, Heriot-Watt produces high-calibre students who are fully equipped for future success. A number of these graduates are currently developing successful careers at Cisco, contributing valuable knowledge and expertise while helping to grow our reputation as a worldwide leader in IT, networking and cybersecurity solutions. Our partnership with Heriot-Watt continues to go from strength to strength and we will continue to recruit from Heriot-Watt's elite pool of talented graduates."

TOM KNEEN
CTO Office, Cisco UKI

CISCO™

Around 95% of our students are in employment or further study within six months of graduating. Here's how we can help you achieve the same success.

Employers see us as a key part of their talent pipeline. That's why they advertised over 9,000 internships and graduate job vacancies with us in 2019-20.

CAREER-FOCUSED DEGREES

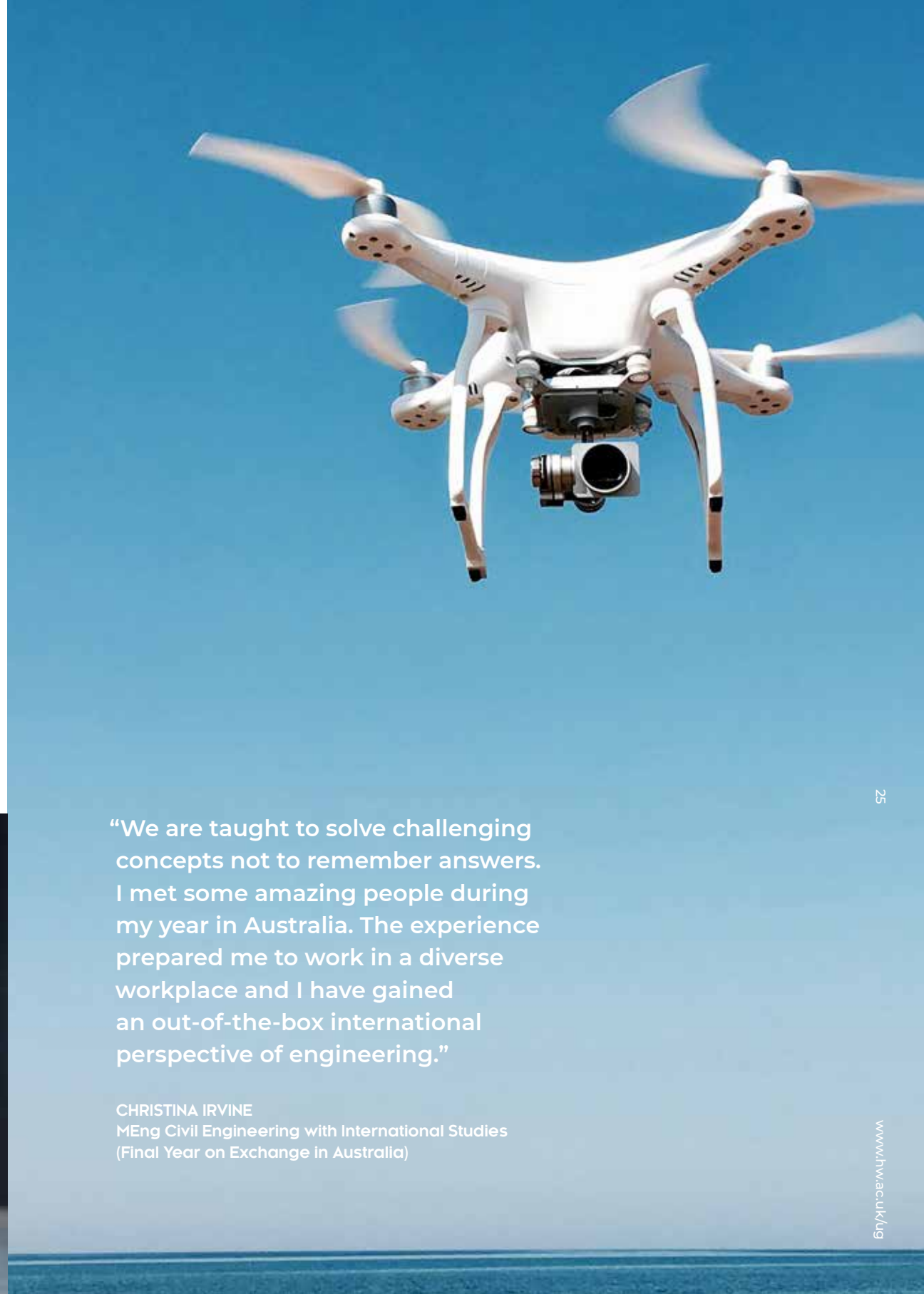
Our degrees are career-focused and relevant to the needs of business and industry. Employers actively seek out our graduates as our degrees are highly regarded for their relevance to the world of work. Many of our degrees are accredited by professional bodies.

OVER 70 EMPLOYER EVENTS ANNUALLY

We have excellent links with business and industry, both in the UK and internationally. Last year we staged over 70 employer events on campus, ranging from careers fairs, insight events, presentations and networking events. We help you meet some of the world's top employers, who know the strengths our graduates bring to the workplace.

OVER 290 WORKSHOPS ANNUALLY

Our Careers and Graduate Futures Service offers individual advice and group workshops on CVs, application forms, assessment centres, selection tests and interviews.



"We are taught to solve challenging concepts not to remember answers. I met some amazing people during my year in Australia. The experience prepared me to work in a diverse workplace and I have gained an out-of-the-box international perspective of engineering."

CHRISTINA IRVINE
MEng Civil Engineering with International Studies (Final Year on Exchange in Australia)

One of the world's most beautiful cities with an exceptional quality of life, Edinburgh is Scotland's capital and a great place to live and study. It's a unique city with a dynamic outlook, renowned worldwide for its rich learning tradition and magnificent architecture.

3RD SAFEST CITY IN THE WORLD
As ranked by YouGov poll

2ND BEST CITY IN THE UK FOR STUDENTS
QS Best Student Cities

39% OF STUDENTS AT EDINBURGH'S UNIVERSITIES ARE INTERNATIONAL

BE FUTURE MADE IN EDINBURGH

LIVING AND STUDYING IN OUR FESTIVAL CITY
The majority of our programmes are taught at our Edinburgh campus, which is six miles from the city centre of Scotland's capital. The campus itself is set in 380 acres of beautiful parkland, offering students ample space to think, play and enjoy. Jump on one of the buses that frequently depart from the campus and you can enjoy the city of Edinburgh and all it has to offer.

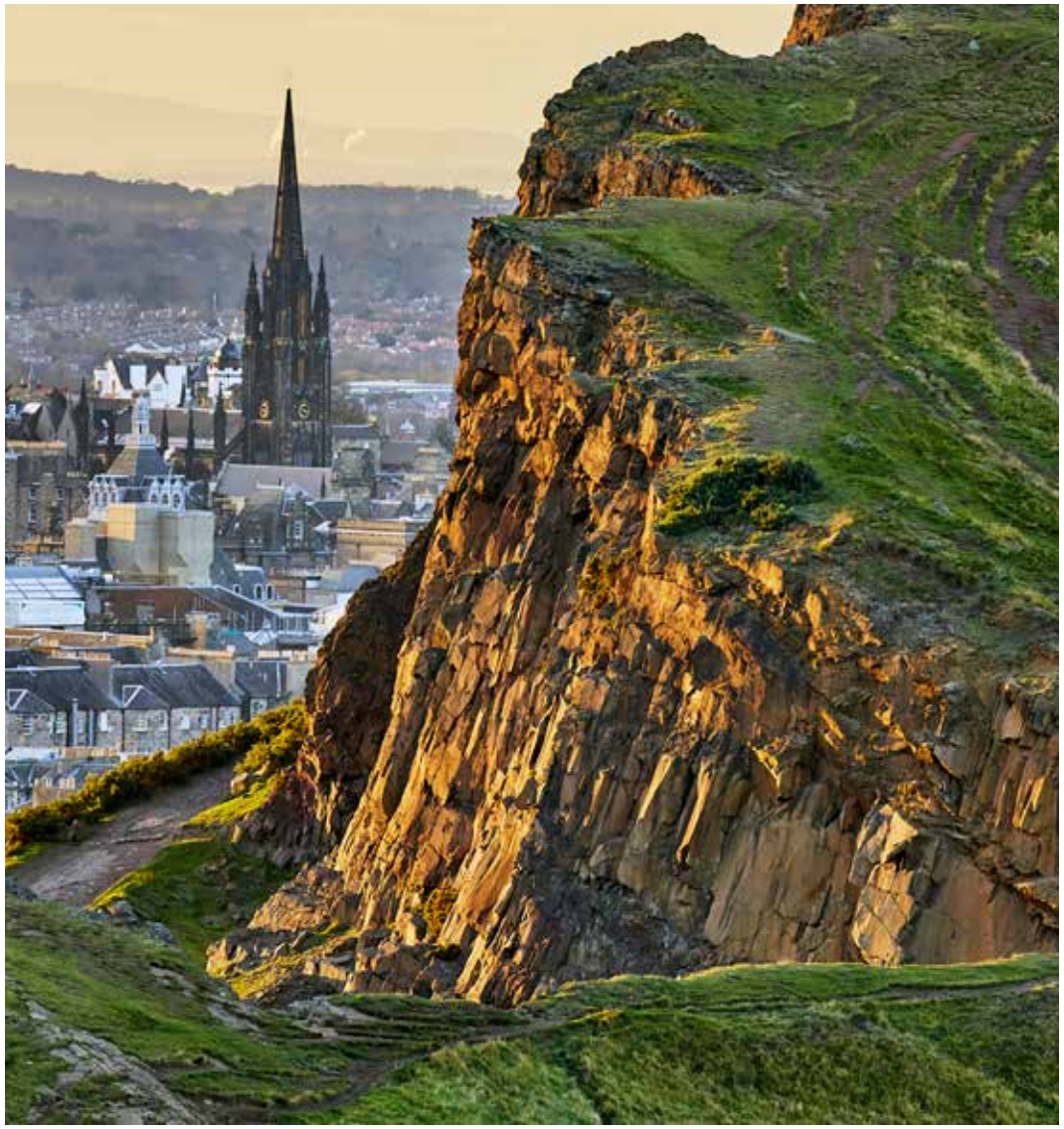
HISTORY AND HERITAGE
In 1995, Edinburgh was accredited as a World Heritage Site by UNESCO. From the medieval Old Town and the Georgian New Town to Greyfriars Kirkyard and Blair Street Vaults, Edinburgh is packed with fascinating, and sometimes chilling, history.

A FESTIVAL CITY
Edinburgh is the world's leading festival city with the Edinburgh Festivals attracting 4.5 million visitors each year. Over 25,000 performers take part in 3,000 events across a variety of festivals, including the Edinburgh Festival Fringe, Edinburgh's Hogmanay, Edinburgh International Science Festival, Edinburgh International Festival and the Edinburgh International Film Festival.

MOST POPULAR DESTINATION
Edinburgh is the most popular destination in Scotland for overseas visitors, and the second most popular in the UK as a whole.
The City of Edinburgh Council

WANT TO KNOW MORE?
Watch Kayleigh's vlog to see a day in the life of a Heriot-Watt student at the Edinburgh campus: **www.hw.ac.uk/video-kayleigh**

With Edinburgh ranked as **15th in the world** and **2nd in the UK** in QS Best Student Cities, it's no surprise that students make up **12% of Edinburgh's population.**



"The campus is situated in one of the most beautiful cities in the world with great student nightlife."

JILL CRUICKSHANK
MA (Hons) Economics
and Accountancy

BE FUTURE READY

A green, peaceful and stimulating environment for studying, relaxing and socialising, our Edinburgh campus is a really friendly, welcoming community where it's easy to get to know people. All our amenities are highly accessible and the attractions of the city are within easy reach.

A LIVELY PLACE TO WORK AND PLAY

Around 10,500 students are based on our Edinburgh campus, creating a lively environment for studying and socialising. It is designed to help you work and play and is full of high-quality facilities to accommodate your needs, be they academic, social, sporting, cultural, religious, or health related.

FIRST-CLASS SUPPORT SERVICES

There are excellent services to ensure you feel fully supported while studying here, including our Student Wellbeing centre (including counselling and disability services), Global Student Office (international student advice, student funding and Go Global) and Accommodation Office, an award-winning Careers and Graduate Futures Service, a Health Centre and the Chaplaincy.

WITH STATE OF THE ART FACILITIES

SCAN ME

"I feel more prepared for industry than my friends who studied chemistry in continental Europe. Heriot-Watt offers a great deal of practical experience with technology that is only a theory in other places. The University has a great attitude towards its potential students and very personal in its approach."

DIANA JELENOVA
MChem Chemistry with Management

www.hw.ac.uk/ug

ZANDER WESTLAND
BEng (Hons) Robotics, Autonomous and Interactive Systems

EDINBURGH IS THE MOST POPULAR DESTINATION IN SCOTLAND FOR OVERSEAS VISITORS AND THE SECOND MOST POPULAR IN THE UK

City of Edinburgh Council

SCAN ME

STUDENT EXPERIENCE

Investment spend of £28 million has been made to improve student study facilities and the overall student experience on the Edinburgh campus. A new ground-breaking facility to advance global research, innovation and discovery, the GRID opened in 2019 providing a platform for tomorrow's thinkers and challengers. (See page 62 for the full story).

GREAT ACCOMMODATION

We have around 2,000 residential self-catering places for students, 450 of which are in our new student residence developments.

SO MUCH TO DO

In between studying you'll find the campus a great place to unwind and relax with so much to do. You can wander the peaceful parkland or access some of Scotland's state-of-the-art sports facilities at ORIAM (see pages 54-59 for full details), or socialise in our vibrant Student Union, or join one of our many student clubs and societies.

Ranked 1st in Scotland and 2nd in the UK for investment in student facilities

Complete University Guide

Home to the Scottish Borders Campus, Galashiels is an ancient market town with strong traditions and a vibrant cultural calendar with local festivals such as Creative Coathanger and the Braw Lads Gathering. The town was developed in the nineteenth century to support the flourishing textiles industry, an industry that thrives today with the nearby mills such as Chanel and Johnston's of Elgin exporting luxury fabrics around the world.

RICH AND VARIED HISTORY

The Scottish Borders is a region with a rich and varied history. It's characterised by rolling hills and rural calm. It offers an ideal backdrop for student life, with a strong sense of community and an active social scene, complemented with a range of bars, clubs and a cinema. The town also offers a wide range of shops from well-known high street names to independent retailers and 24-hour supermarkets. Set in beautiful countryside, the area offers you plenty of opportunities to enjoy fresh air, fine views and a range of related outdoor activities.

SCOTTISH BORDERS CAMPUS

Our Scottish Borders Campus offers an inspiring learning environment. It's home to our School of Textiles and Design, a leading education and research institution with specialist resources that are among the best in the world. There is state-of-the-art production equipment and the largest knit and weave studios in Europe.

GALASHIELS

GO GLOBAL

BECOME A GLOBAL STUDENT
Become a global student by studying at our UK and international campuses in Dubai or Malaysia. We encourage all students to participate in our Go Global programme by taking part in an Inter-Campus Transfer, Study Trips or European Exchange.

WHY GO GLOBAL?
- Broaden your horizons
- Experience new cultures
- Build your global network
- Enhance your career prospects
- Build confidence

Go Global is a great opportunity to travel, meet people from different cultures, discover new interests and develop life skills.

INTER-CAMPUS TRANSFERS
Take advantage of our international locations and either transfer your studies to our campuses in Dubai or Malaysia, or take part in a Study Trip.

EXCHANGE
The Exchange programme gives you the opportunity to study with one of our international exchange partners for part of your degree.

99%

of Go Global students would recommend participation in an Inter-Campus transfer.

Study in Edinburgh and spend a year abroad through an Inter-Campus Transfer, Exchange or Erasmus+

GO GLOBAL
www.hw.ac.uk/goglobal

Heriot-Watt reserves the right to withdraw opportunities to participate in the Go Global programme, including Inter-Campus Transfers, at any time.

"The year delivered beyond my highest expectations. It gave me the vocabulary and knowledge to start really talking to employers about international business. It heightened my understanding of the decisions businesses need to make before entering foreign markets. As a result of this, I picked up an internship in Hong Kong, which opened up doors to yet another global commercial epicentre."

MATTHIAS GOLDBECK
MA (Hons) International Business Management

76%

Among graduates who were mobile during their degree, those in work were more likely to be in a graduate level job (76.4% compared to 69.9%) and earn 5% more than their non-mobile peers.
UK HE International Unit's 2017 report, 'Gone International'

Dubai is one of the most sophisticated, futuristic, connected and cosmopolitan cities in the world. Its residents come from more than 180 countries and 105 different nationalities study with us in Dubai.

GLOBAL BUSINESS HUB
Dubai is a centre of trade and commerce for the Middle East and the wider world. It hosts global corporations and some of the biggest business events in the world take place here.

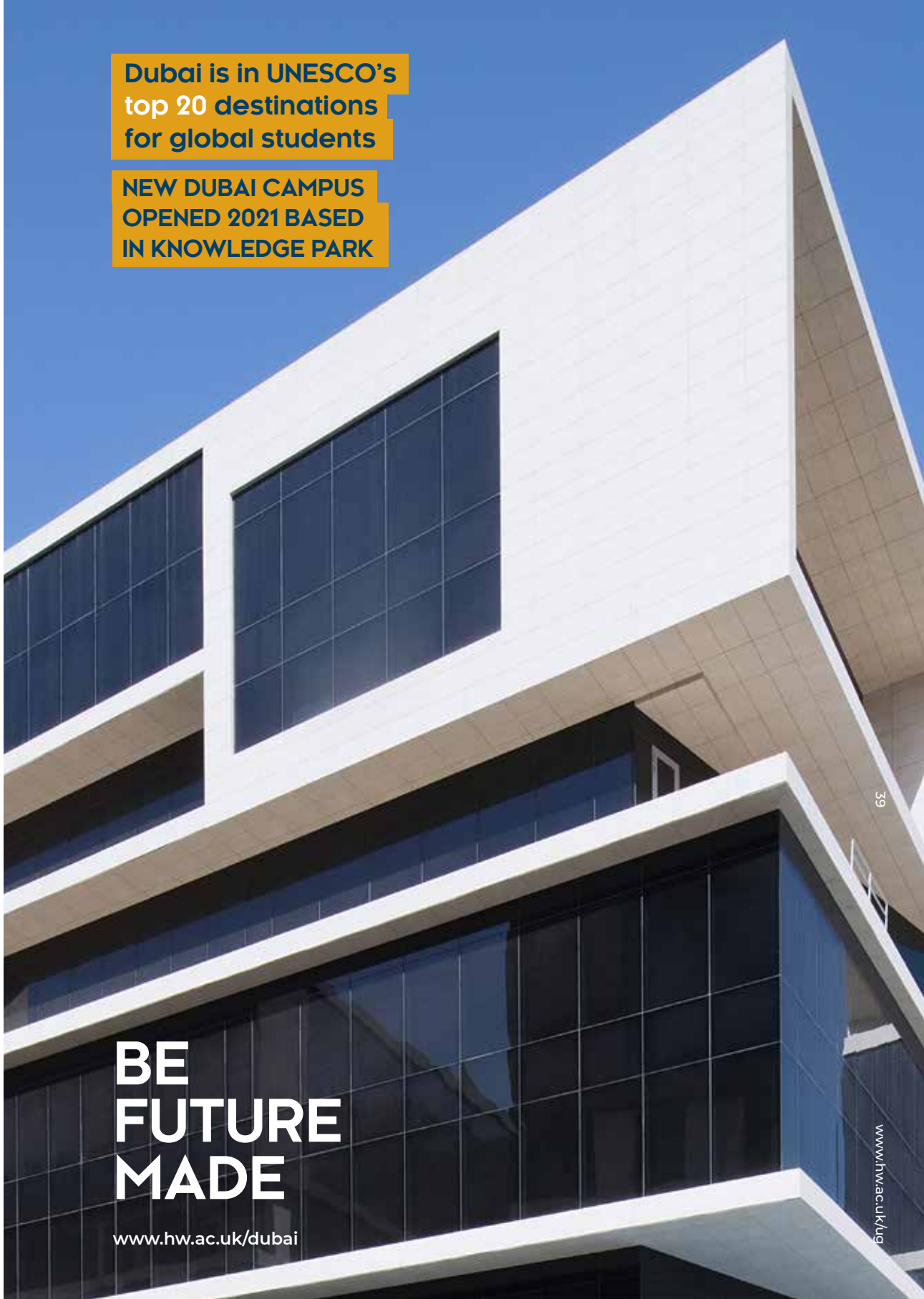
A MODERN DESIGN CAPITAL
Dubai is the modern art and design capital of the Middle East and is host to Dubai Opera and Dubai Design District.

GLOBAL KNOWLEDGE HUB
Dubai is an international knowledge hub giving students from around the world the opportunity to gain internationally-recognised qualifications. As the first British university to open in Dubai International Academic City, Heriot-Watt is at the heart of this mission.

A SAFE CITY
Dubai is one of the safest cities in the world and the UAE is ranked the world's 2nd safest country. Dubai is virtually crime-free as the Dubai police ensure safety and security.

www.hw.ac.uk/dubai

DUBAI



Malaysia is a superb location and high-quality environment for academic study. It consists of two areas of mainland, separated by the South China Sea, namely West Malaysia – more popularly known as Peninsular Malaysia – and East Malaysia.

Ranked 12th in UNESCO's top 20 countries for student destinations

MOST AFFORDABLE
Kuala Lumpur is ranked as the second most affordable city to live in, according to QS Best Student Cities 2018.

IDYLLIC LOCATION
Home to some of the world's most idyllic beaches and islands, Malaysia has over 4,600 km of coastline. Located on the equator's belt, the country has 12 hours of sunlight every day, with an average temperature of 27 degrees Celsius.

STRIKING CAMPUS
The striking campus reveals itself within the landscape, from beneath a living grass roof. Located next to the Putrajaya Lake, part of the administrative capital's 'green continuum', the building is consciously designed with the environment in mind and is built to Green Building Index (GBI) standards.

MINI ASIA
Dubbed 'Mini Asia', Malaysia is a multi-racial and multi-ethnic country where the majority are Malays, Chinese and Indian.

MALAYSIA

STUDENT EXPERIENCE

As a student at Heriot-Watt, you automatically become a member of the Student Union. A unique diverse global community with your needs at the core of everything we do.

SCAN ME

We know there is more to life at university than earning your degree, so we exist to empower and inspire and work tirelessly to enhance the student experience. We celebrate our differences but support each other as one community.

We're home to some of the UK's best and most diverse societies. With over 70 clubs and societies you can explore a world of new possibilities! Whether you want to swing a sword with our Medieval Society, raise money for a cause close to your heart or learn something new with one of our many cultural and academic societies, we'll help you find your calling.

You can also add us on Facebook or Twitter and have a look at what we do daily! **@HWUnion**

BECOME PART OF A UNIQUE, DIVERSE GLOBAL STUDENT COMMUNITY

HW HERIOT-WATT UNIVERSITY STUDENT UNION

myHWU

Your central hub for university life. Everything you will ever need as a student is accessible on your smartphone or tablet from the App Store or Google Play or you can use it on your computer. Basically everything you'll need as a student across all five campuses, myHWU aims to deliver a first-class student experience making you more global, innovative and connected wherever you choose to study.

BE FUTURE MADE

www.hwunion.com

BE AT YOUR BEST

WATT ABOUT YOUR WELLBEING?

A brand-new podcast for Heriot-Watt students and staff to allow you to focus on your wellbeing. In this podcast, you will hear from staff in Student Wellbeing Services on how to practise mindfulness, manage stress and anxiety, tips for successful studying, and many other topics.

Download here: bit.ly/HWU-WAYW
Spotify: bit.ly/SpWAYW
Apple Podcasts: bit.ly/APWAYW
Google Podcasts: bit.ly/GoogWAYW
Heriot-Watt www.hw.ac.uk/uk/students/health-wellbeing/edinburgh/watt-about-your-wellbeing-podcast.htm

WELLBEING SUPPORT IS PART OF OUR DNA AT HERIOT-WATT

Our Student Wellbeing team are here to support you every step of the way, so you can make the best of your time at Heriot-Watt.

PERSONAL SUPPORT

Your time at Heriot-Watt will be fun, exciting and fulfilling but there may be times when you'll need some help and advice. We have a range of support services with friendly, approachable staff who are there to help you be at your best.

Along with the advice and information our Wellbeing Team can offer, our academic staff are also part of the student support system here. When you join the University you will be introduced to a member of the teaching team who will be your 'Personal Tutor' and who will always be on hand to provide general guidance and support.

PRACTICAL ADVICE

Student Wellbeing can provide practical advice and support on all kinds of issues including settling into university life, money, accommodation, disability and safety. We can also help if you get into difficulties by providing support and counselling.

HEALTHCARE

At our Edinburgh campus you are encouraged to join and make use of our on-campus NHS Health Centre, which provides top quality medical, nursing, dental and ancillary health-care, including physiotherapy. Any health worries that you may have will be dealt with confidentially and efficiently. If you are based at our Scottish Borders Campus you should register with one of the local general practices.

DISABILITY SUPPORT

Our campuses are modern and well equipped for those who have a disability or special need. This includes learning difficulties such as dyslexia, physical disabilities and mental health problems. We are committed to providing you with appropriate information, professional advice and technical help throughout your time here. If you have extra support needs please contact the Disability Advisor in Student Wellbeing. It would be helpful if you could do this in advance so that we can assess your needs before you arrive and make any appropriate arrangements.

SPIRITUAL WELLBEING

Your spiritual wellbeing is also important and the Chaplaincy centre at our Edinburgh campus is not only for people who are religious – it is open to everyone. During term-time you can relax in the lounge, and play snooker or even the piano! Separate prayer rooms are provided for Muslim worship. Heriot-Watt is committed to promoting equality in all its activities and providing an environment free from discrimination and unfair treatment.

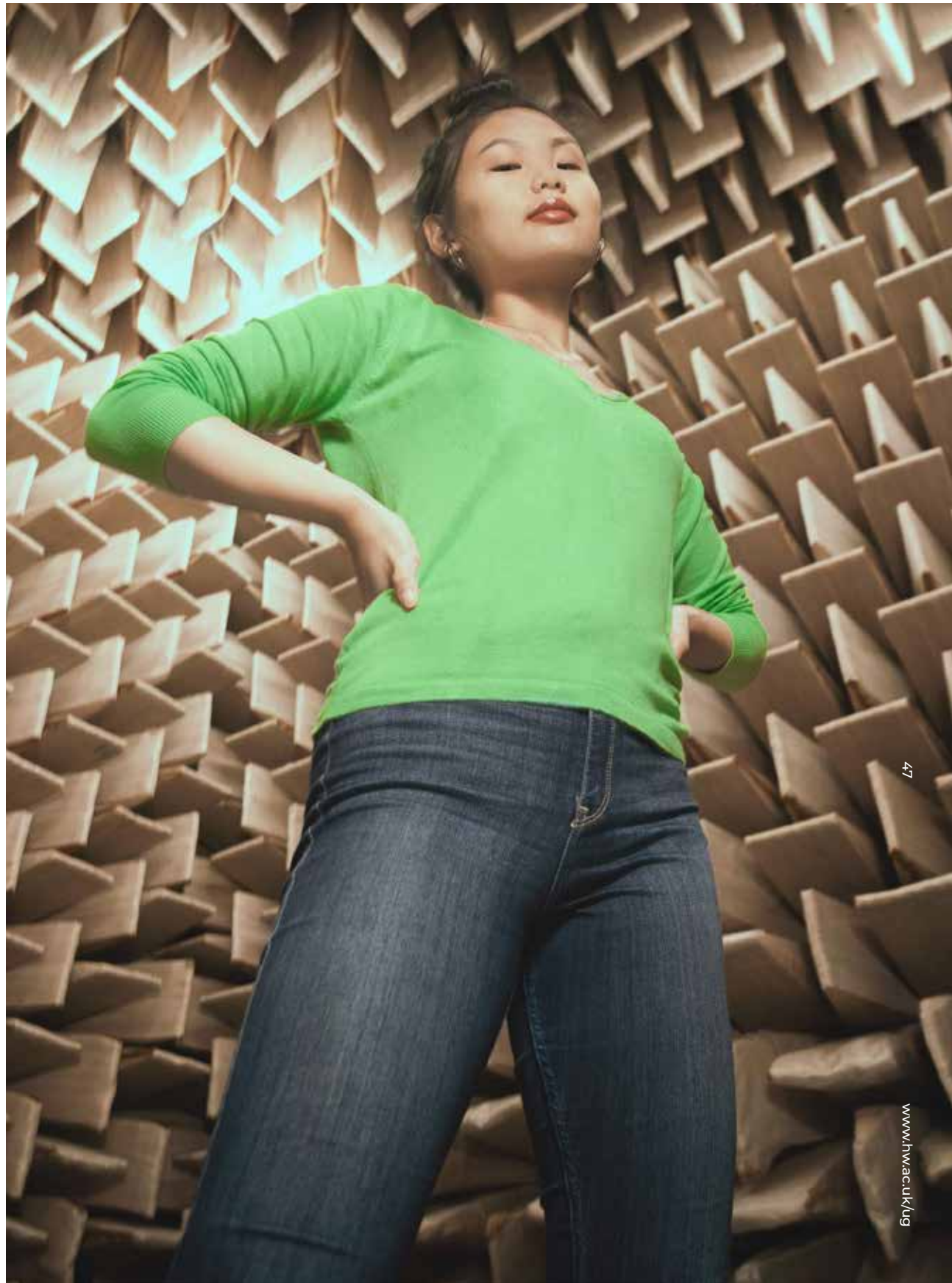
University Disability Advisor
T: 0131 451 3509
E: **disability@hw.ac.uk**
www.hw.ac.uk/disability

Student Wellbeing
Edinburgh Campus
T: 0131 451 3386
E: **studentsupport@hw.ac.uk**
www.hw.ac.uk/wellbeing

Scottish Borders Campus
T: 01896 892178
E: **g.mclaughlin@hw.ac.uk**
www.hw.ac.uk/wellbeingborders

"I strongly believe that Heriot-Watt provides such a supportive environment for their students that it starts to feel like the whole Heriot-Watt community is one big family."

KARMELLE YIN
MA International Business Management



HOME AWAY FROM HOME

"The green campus and inviting atmosphere made me feel welcome from the beginning. As for the city, Edinburgh has a buzz about it all year round and there is truly something for everyone."

HANA SMITH
MA (Hons) Languages
(Interpreting and Translating)

SCAN ME

MODERN, SPACIOUS ACCOMMODATION HELPS YOU FEEL AT HOME AWAY FROM HOME

A multi-million-pound investment programme has seen excellent student accommodation on both our Edinburgh and Scottish Borders campuses helping you to feel at home away from home.

£28 MILLION

Investment spend in study facilities to improve the student experience

All new entrants are guaranteed an offer of accommodation, either on- or off-campus.*

*As long as you will be at Heriot-Watt University for the full academic year and apply by our deadlines. The University reserves the right to change this policy and priorities in response to changing demands. Accommodation can be provided in the City of Edinburgh through a private student housing provider.

LEARNING AND SOCIALISING SPACE
At the Edinburgh campus the five self-catered blocks offer large, modern study bedrooms, spacious kitchens with dining space and more learning and socialising space throughout the buildings. Landscaped central courtyards act as a hub for students to mix and relax.

All of the Borders accommodation is self-catered, providing spacious kitchens with a dining area and learning and socialising space throughout the buildings. Some spectacular views of the stunning Borders countryside complete the experience!

CATERING TO SUIT EVERYONE
At the Edinburgh campus there is a range of catering venues, depending on the time of day and type of food you want. These include Elements, Central and Cafe Brio. Our experienced chefs are always responsive to special dietary needs and will ensure that if you are vegetarian or vegan or require gluten-free or Halal meals, you will be well catered for.

TOP QUALITY FACILITIES
You will have your own study bedroom, the majority of which have en-suite bathrooms, and access to home comforts – a well-equipped shared kitchen, a communal lounge, a laundry and fast 100 MBPS speed broadband with Wi-Fi throughout the buildings. Our Residences Life team ensure the welfare and wellbeing of all our students living on campus.

"Heriot-Watt is an exceptionally international place to study. But the greatest thing of all is that it is within half an hour of the beautiful city of Edinburgh."

JAZMIN MELGARJEGO
BSc Psychology with Management
Global Product Planner, L'Oreal Group

GREAT PLACE TO LIVE AND LEARN
Our new residences are part of the University's commitment to providing our students with the best possible environment for living and learning. We involved our students in the process of design, gathering their views and opinions to ensure the residences would be tailored to students' needs and priorities. We also ensured they were built to the highest standards in sustainable design and energy use.

HERIOT-WATT UNIVERSITY ACCOMMODATION
For further information check out our website:

Edinburgh Campus
E: **halls@hw.ac.uk**
www.hw.ac.uk/accommodation-ed

Scottish Borders Campus
E: **bordershalls@hw.ac.uk**
www.hw.ac.uk/accommodation-sbc

Join our vibrant music community and get involved with the musical activity that takes place across the campus and beyond.

MAKE MUSIC

CREATING MUSICAL CONNECTIONS

'Music@Heriot-Watt' has achieved growing success and recognition amongst the universities and communities in Scotland as a platform for students, staff and the local community to excel in making music and with a spirit of dynamism and constant improvement.

Heriot-Watt musicians have performed the length and breadth of the country – from Orkney to Knoydart and from Skye to the Borders – delighting audiences, raising the University's profile and developing musical skills and connections.

BROAD MUSICAL INTERESTS

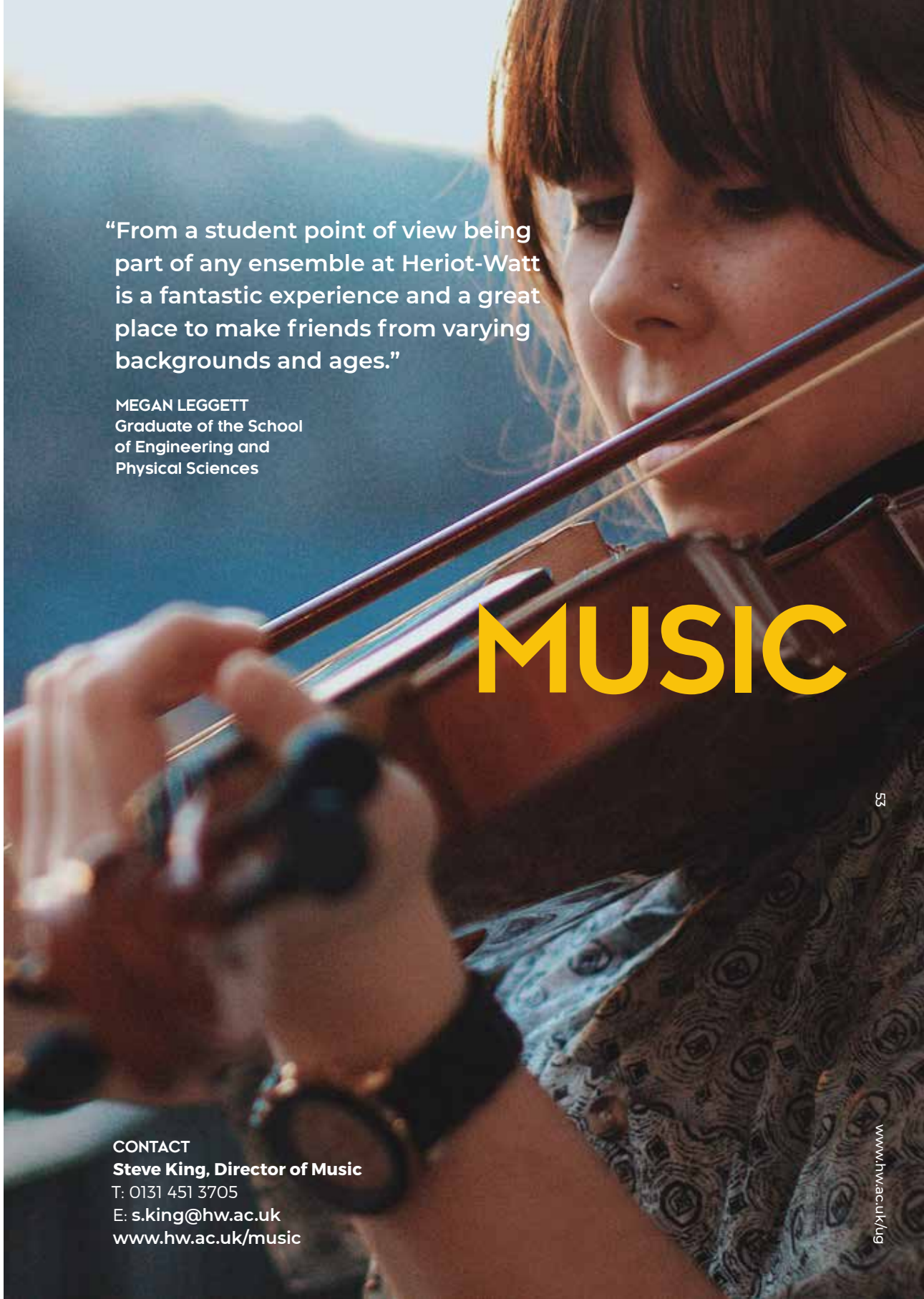
The wide range of musical interests includes a chamber choir; chamber music; the Inchcolm New Music Ensemble – the University contemporary music group; a pipe band; and the University Orchestra and University Choir, both of which give regular concerts on campus and at St Giles Cathedral and Greyfriars Kirk in the centre of Edinburgh.

OPEN TO EVERYONE

Both the orchestra and the choir are open to current music scholars and previous members: prospective members can contact the Director of Music to arrange a meeting before or during Fresher's Week. Traditionally, there has been a healthy membership of UK and international students in all of the above groups.

THE PIPE BAND

The pipe band was founded in 1994 by staff members and students who wanted to create a group to perform at University functions and events. As well as providing an active on-campus social calendar, the group has appeared at festivals in Europe and is frequently invited to perform at University and local functions.



"From a student point of view being part of any ensemble at Heriot-Watt is a fantastic experience and a great place to make friends from varying backgrounds and ages."

MEGAN LEGGETT
Graduate of the School of Engineering and Physical Sciences

CONTACT
Steve King, Director of Music
T: 0131 451 3705
E: **s.king@hw.ac.uk**
www.hw.ac.uk/music

OUR ORIAM

Our Edinburgh campus is home to Oriam, Scotland's Sports Performance Centre. This cutting-edge facility is the training hub for Scottish Rugby, Scottish Football, Scottish Squash and Scottish Handball. Housed in a stunning £33 million purpose-built sports facility, Oriam is truly state-of-the-art in its design.

In developing strong partnerships, delivering service excellence and growing expertise, Oriam will inspire our communities through sport and physical activity.

BECOME THE BEST YOU CAN

To be the best in sport you need the best facilities and the best thinking. That's why you'll find a wide range of high-quality pitches, a sports hall and a fitness suite all on one site.

Oriam offers Heriot-Watt University students access to world-class sporting facilities, expert health and fitness support and advice, and a truly exceptional student experience through the Sports Union clubs.

GENERAL CONTACT
T: 0131 451 8400
E: **hello@oriam.hw.ac.uk**
www.oriamscotland.com

SCAN ME

YOUR FUTURE

HEALTH AND FITNESS SUITES

Oriam houses state-of-the-art TechnoGym equipment within the fitness suite and offers a separate strength suite with a host of free weights, as well as a rowing room. Our two exercise studios deliver an eclectic selection of fitness classes throughout the week as well as a range of consultations and gym programmes. Oriam has also developed excellent working relationships with several departments within the University to deliver support programmes for those that need a little extra help and encouragement to be active.

FITNESS CLASSES

We have a wide variety of fitness classes throughout the week, from Body Attack to Circuits, Cycle-Fit to Yoga. Our classes are designed to be fun and to help you achieve your fitness goals. All classes are taught by highly-qualified instructors. Classes are held in either of our two brand new refurbished studios. Oriam has six Les Mills programmes on the timetable, including GRIT, Body Combat and Body Pump.

FITNESS SUPPORT SERVICE

This service provides members with support in the gym to ensure that they are getting the best out of their training. We provide gym inductions for those who need some information regarding use of the machines. Gym programme sessions are ideal for those looking for some one-to-one guidance from a highly-qualified instructor. They will help you achieve your goals by creating an individually-tailored programme. This is all managed through the MyWellness app making the journey easy and engaging for all members.

SPORTS UNION

Sport is part of our DNA at Heriot-Watt. The Sports Union is run by students for students. We encourage everyone to get involved. There really is something for everyone at every level.

SPORTS UNION (SU)
The SU is the student organisation responsible for Heriot-Watt's sporting needs and is the perfect opportunity to get involved, make a difference and have fun!

CLUB ACTIVITY
The SU offers a variety of different sports to try out while at University, for students, staff and the community, ranging from casual participation to excellence.

RECREATIONAL SPORT
In addition to our club activity, the SU also has a recreational sport programme. Delivered by volunteers, the recreational sport programme promises to make sport fun and easy.

SOCIAL EVENTS
Increase your social life by meeting with your teammates before, during and after training and games or through one of our organised events.

VOLUNTEERING
Being a member of the SU provides an opportunity to become a volunteer, whether that be organising a club dinner or helping with the day-to-day running of a club. This effort is recognised by the SU at our annual Blues and Volunteer Awards Ceremony.

ORIAM STUDENT MEMBERSHIP
Oriam offers three levels of memberships from £111 per year. For more information and to join please visit **www.oriamscotland.com/memberships**

CONTACT
Sports Union President
T: 0131 451 8435
E: **SUPresident@hw.ac.uk**
www.sportsunion.site.hw.ac.uk

THE UK'S FIRST NATIONAL ROBOTARIUM

"This is an important time in the evolution and application of this most disruptive and ground-breaking of technologies."

PROFESSOR DAVID LANE
Inaugural Academic Director of the National Robotarium

Heriot-Watt is home to the UK's first National Robotarium, delivering leading-edge research and support for business creation and growth, as well as data skills, new undergraduate and postgraduate programmes, and continuous professional development. The National Robotarium will be the UK's leading innovation hub for the practical application of robotics and autonomous systems to drive economic growth and transform people's lives worldwide.

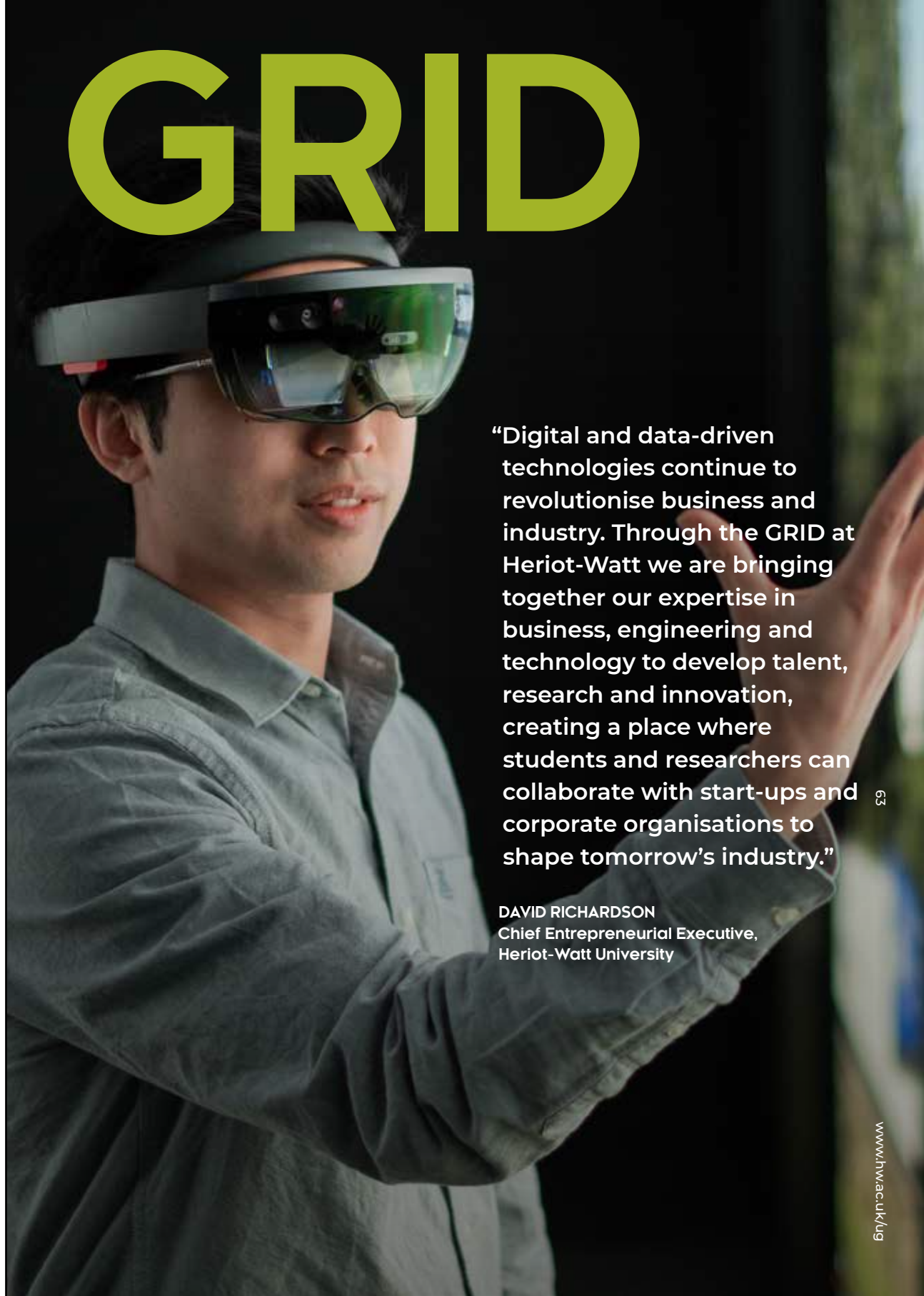
IMMERSE YOUR CURIOSITY IN THE GRID

The GRID is a new ground-breaking facility to advance our global research, innovation and discovery. It has been designed to create cohesion between academic disciplines, industry partners and the global community, providing an innovative teaching and learning environment for mathematics, engineering, physical sciences and computer science students and staff.

The GRID is designed to excite tomorrow's thinkers and challengers. It's a globally networked space where students can learn, tackle problems and indulge their curiosity and intellectual passions. Create and experiment with ideas that could help to solve real-world challenges. Featuring the very latest in technological innovation, including Augmented Reality, Virtual Reality and Gaming studios, the GRID has the capability to connect with global industry partners and our other university campuses around the world. Open 24/7, it gives you the opportunity to work on real-world problems, working across disciplines to deliver practical solutions with global impact.

The GRID also houses our Enterprise Hub which will support business innovation, showcase emerging technology and inventions, and encourage staff and students to pursue the commercial potential of their creative ideas.

www.hw.ac.uk/grid



"Digital and data-driven technologies continue to revolutionise business and industry. Through the GRID at Heriot-Watt we are bringing together our expertise in business, engineering and technology to develop talent, research and innovation, creating a place where students and researchers can collaborate with start-ups and corporate organisations to shape tomorrow's industry."

DAVID RICHARDSON
Chief Entrepreneurial Executive, Heriot-Watt University

WHY HERIOT-WATT?

The Times/The Sunday Times Good University Guide 2021 ranks Heriot-Watt 1st in Scotland and 5th in the UK for General Engineering

We are one of only 4 Centres of Excellence in Sustainable Building Design established at UK universities and recognised by the Royal Academy of Engineering

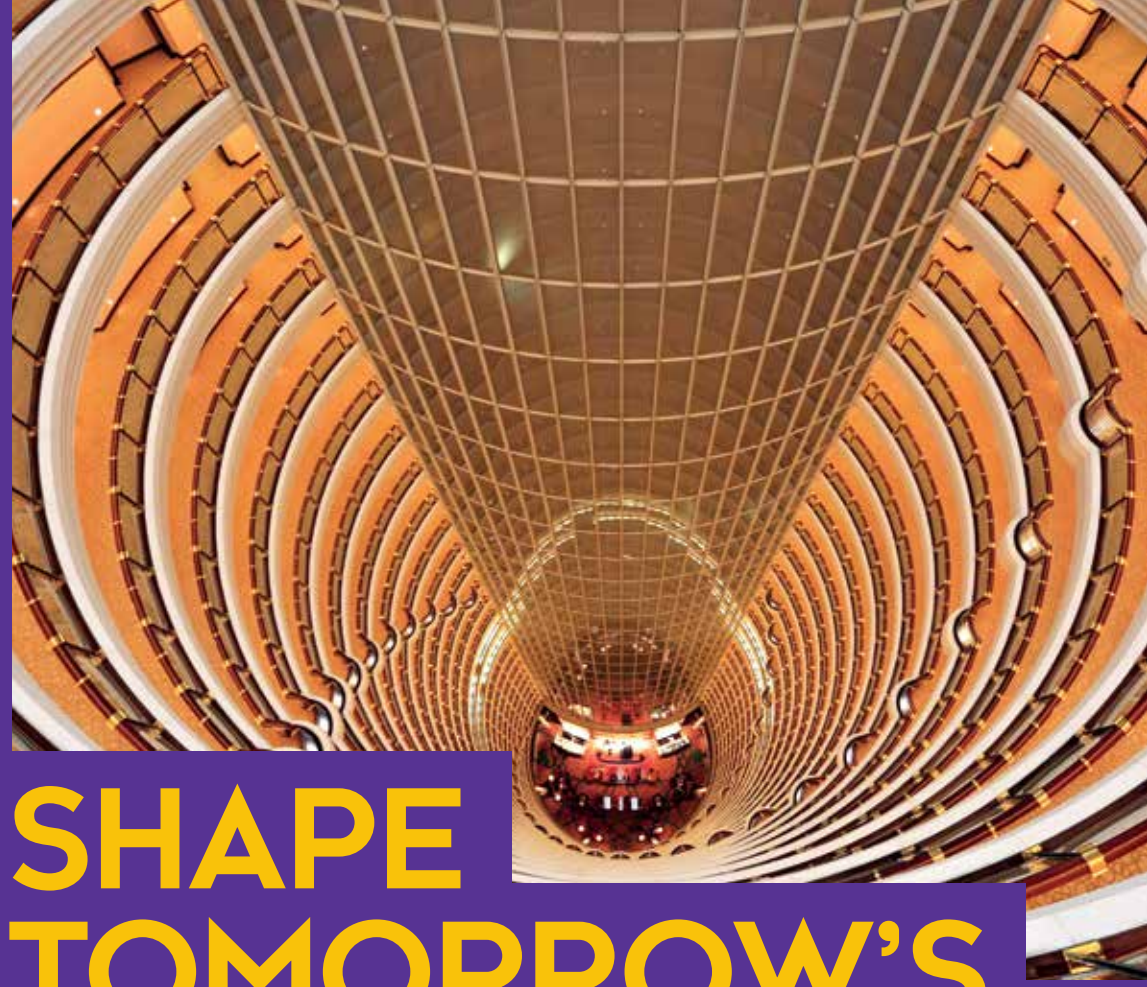
We are 1st in the UK for Others in Engineering (includes our Architectural Engineering) in the NSS 2020

THE TIMES
THE SUNDAY TIMES

Study Abroad

Study in Dubai

Study in Malaysia



SHAPE TOMORROW'S BUILT ENVIRONMENT

Be FutureMade in Architectural Engineering

BEng (Hons) / MEng Architectural Engineering

www.hw.ac.uk/ug

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-archeng

Be FutureMade in

Architectural Engineering

The construction industry is faced with a growing need to provide society with modern buildings that are sustainable, energy efficient and green. They must also create environments that positively influence the behaviour and wellbeing of the people who use them. Architectural engineers design appropriate low energy indoor environments for buildings.

The main aims of the programmes we offer are to produce graduates with the knowledge and skills required for the design, specification, and management of the engineered solutions essential for a sustainable built environment, including efficient lighting design, responsive thermal comfort approaches, and renewable energy technologies.

YOUR CAREER PROSPECTS

Employment prospects for Architectural Engineering graduates are excellent and our graduates have secured employment with leading organisations such as **Arup, AECOM, Cundalls, DSSR Consulting Engineers, KJ Tait** and **Laing O'Rourke**.

We actively prepare students for work as professionals and our Industrial Advisory Panel guides us on employer needs so we can actively prepare you for work as a professional Architectural Engineer. The panel consists of members of local built environment practices who have national expertise and links, and represent all major disciplines. Their role ensures your learning is exactly what the industry needs.

The semester-long Industrial Placement course in Level 5 (MEng degrees only) ensures you are equipped to make an impact.

"I can't recommend Heriot-Watt enough! Its links to industry prepared me well for my early career and the Industrial Project Internship experience was so rewarding; it also helped me secure a job with one of the largest companies in my field doing my dream role."

JORDAN GREENHORN
MEng Architectural Engineering,
Buro Happold Engineering

LEADING CENTRE OF EXCELLENCE

Our programmes are delivered by our Centre of Excellence in Sustainable Building Design, a leading body recognised by the Royal Academy of Engineering. We are one of four such centres established at UK universities that jointly form a national network to exchange best practice and to develop and promote multi-disciplinary teaching and research for the sustainable built environment.

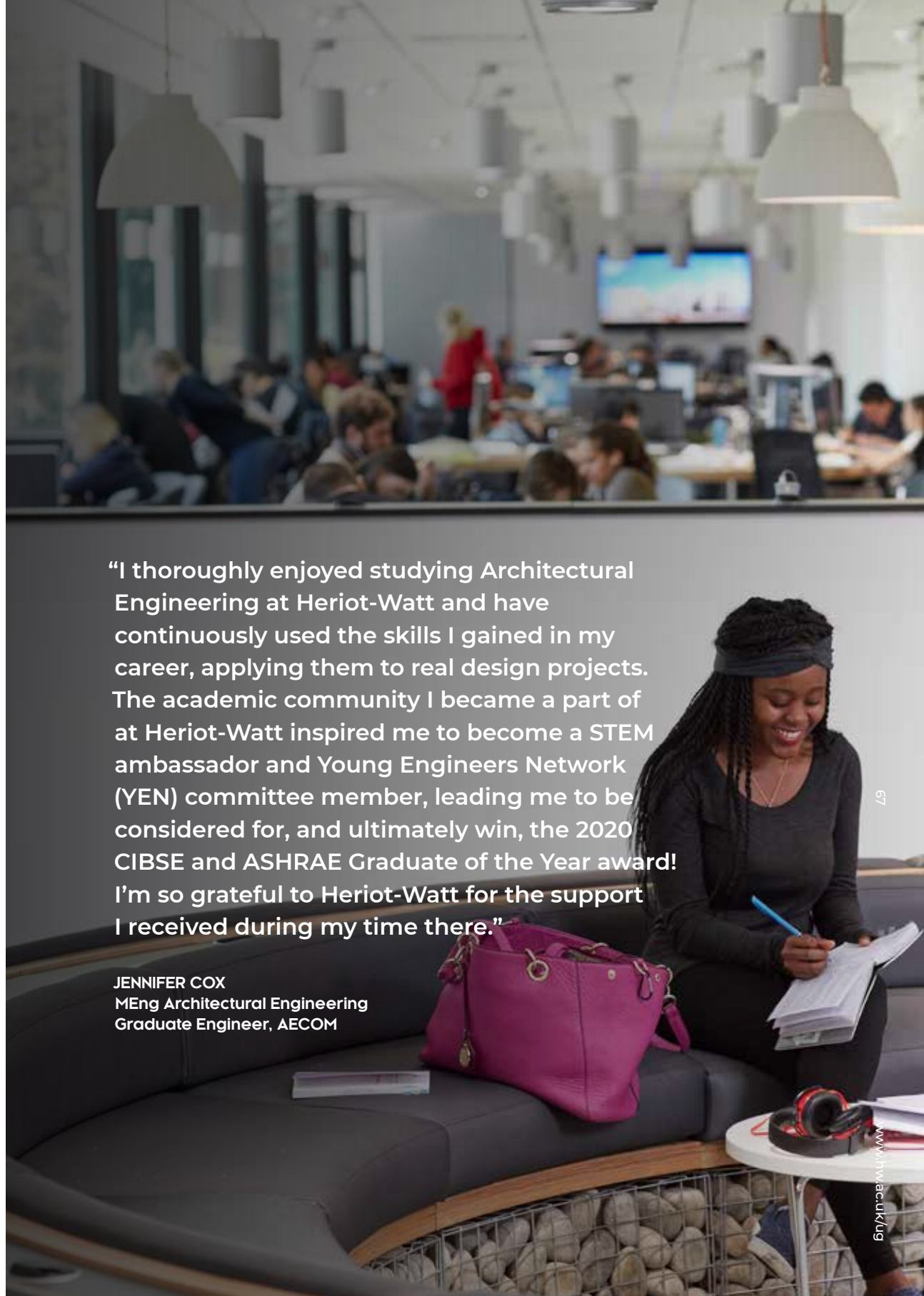
Our built environment facilities include: Water and Wastewater Laboratory, Anechoic Chamber, Reverberant Chambers, a Sun Emulator Heliodon and a Thermodynamics Lab.

PROFESSIONAL RECOGNITION AND EXEMPTIONS

Programmes are accredited by the Chartered Institution of Building Services Engineers (CIBSE) and the Energy Institute (EI). The MEng degree is recognised as fulfilling all the educational requirements of a Chartered Engineer, while those with a BEng need to complete a 'further learning' section after graduating. Full chartered status can then be achieved following an appropriate period and level of responsibility in professional practice.

OPPORTUNITIES ABROAD

Through Heriot-Watt's Go Global programme all students can study at our Dubai campus and MEng students can apply to study at a partner institution in North America or Europe.
www.hw.ac.uk/goglobal



"I thoroughly enjoyed studying Architectural Engineering at Heriot-Watt and have continuously used the skills I gained in my career, applying them to real design projects. The academic community I became a part of at Heriot-Watt inspired me to become a STEM ambassador and Young Engineers Network (YEN) committee member, leading me to be considered for, and ultimately win, the 2020 CIBSE and ASHRAE Graduate of the Year award! I'm so grateful to Heriot-Watt for the support I received during my time there."

JENNIFER COX
MEng Architectural Engineering
Graduate Engineer, AECOM

MEng / BEng (Hons)

Architectural Engineering

UCAS code **K132 / K131**
Duration **5 years MEng / 4 years BEng (Hons)**

LEVEL 1
The majority of courses studied by Level 1 students are common across the engineering disciplines, and provide an introduction to the main themes of the programme. Courses include: Construction Technology; Mechanics; Mathematics for Engineers and Scientists; Building Services Technology; and Shaping Tomorrow Together. Students also have multiple construction site visits, and guest lectures from professional engineers.

LEVEL 2
Covers a range of courses in greater depth. Students work together on a design project and in addition to five core courses – Electrical and Lighting Services for Buildings; Construction Technology 2; eConstruction; Environment and Behaviour; and Statistics for Science – students select two courses from topics such as Hydraulics and Hydrology; Surveying and GIS; and Global Communications in English. Students have the option to take part in a week-long field course, Constructionarium, that provides hands-on experience working with industry professionals.

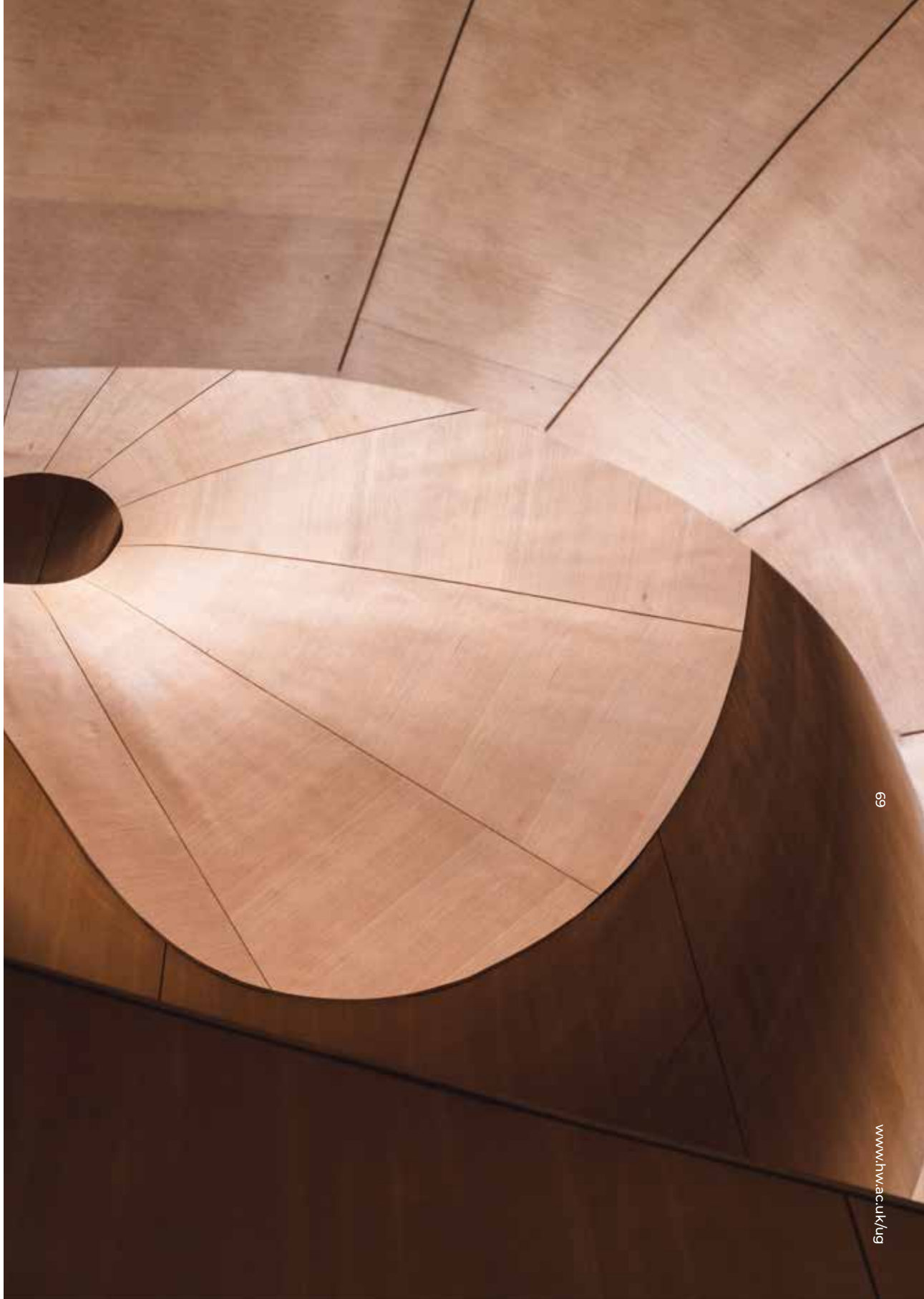
LEVEL 3
More specialist topics are covered, such as: Critical Building Analysis; Electrical and Lighting Services for Buildings; Design Software Applications; Design Issues; Energy and Buildings; Thermal Performance Studies; and Environmental Technology and Management. Students also undertake a Laboratory Project and have the opportunity to go on a field trip to Berlin to see the city's iconic examples of Architectural Engineering.

LEVEL 4
Students undertake an in-depth Design Project starting with a week-long cross-discipline collaborative study. They complete an individual dissertation and engage in three core courses: Contracts and Procurement; Sustainable and Intelligent Buildings; and Innovations in Construction Practice.
(**MEng only**) Students have the opportunity to apply to study at a host institution in North America or Europe as part of an exchange programme. The core content of study will include the design and technical components covered in Level 4 of the Architectural Engineering degree.

LEVEL 5 (MEng only)
Students complete a 12-week industrial placement using skills learned throughout the degree and preparing them for employment at the end of their studies. In addition, students will complete three mandatory courses: Architectural Acoustics; Thermofluids; Design of Low Carbon Buildings; and will select three courses from a range of options such as Foundations of Energy; Climate Change, Sustainability and Adaptation; Water Supply and Drainage for Buildings; Value and Risk Management; Technical Networks and Urban Resilience; and Social Sustainability.

Please note that courses within programmes are subject to change.

See pages 230-231 and our website for entry requirements.



WHY HERIOT-WATT?

84% of our Biology students are working or in further study 15 months after graduation

Our biology degrees address some of the big issues facing the planet today

Our graduates have a strong record of employment and make a difference in the real world

SUCCESS IS IN OUR BIOLOGY

Be FutureMade in Biology

BSc (Hons) Biological Sciences
BSc (Hons) Biological Sciences (Cell and Molecular Biology)
BSc (Hons) Biological Sciences (Human Health)
BSc (Hons) Marine Biology
MBiol Biology

www.hw.ac.uk/ug

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-biology

Be FutureMade in

Biology

Biology is the study of living things, encompassing all aspects of their activity, behaviour and survival. Our Biology programmes follow the same course content at Level 1 to provide a thorough grounding in cell and molecular biology, microbiology, marine and environmental biology, toxicology and biotechnology. Greater specialism is explored in levels 2-4 to allow you to choose your preferred programme of study from the range of programmes available.

Emphasis is placed on the applied aspects of each discipline, so that the knowledge you gain may be used for the benefit of society.

The degree programmes sit within our Institute of Life and Earth Sciences which carries out work in fields that are relevant to industry and society. State-of-the-art facilities include aquarium holding testing tanks for marine and aquatic experiments, teaching labs, research labs used by final year students in their research projects, an anaerobic cabinet used for research to grow obligate anaerobes, and a research vessel used on field trips on the West Coast of Scotland to collect data.

YOUR CAREER PROSPECTS

Our graduates have a strong record of employment and you will be well prepared to enter careers in the health care, industrial, food or environmental sectors, or to undertake postgraduate study before embarking on a scientific career. Moreover, the applied nature of our degrees is particularly relevant to employers, and the skills our graduates possess are well suited to the pursuit of non-scientific career paths too.

All graduates are well prepared to undertake further study in any biological discipline.

PROGRAMME FLEXIBILITY

Our degree programmes share courses at Level 1 while in later Levels they comprise a mixture of compulsory and optional courses that reflect the specialist subject. Transfer between degrees is straightforward at Levels 1 and 2, and is also possible in some cases during Levels 3 and 4.

COMBINED STUDIES

Some of the Biology courses can also be taken as part of a Combined Studies degree programme.

"The knowledge and experience of lecturers, combined with the resources made available to you, means that this is a place of limitless potential. You really can go anywhere and do anything by starting a degree programme here, so long as you are willing to put in the effort. Everyone on campus has been extremely friendly, both students and tutors, so don't be afraid to ask questions because we all want each other to succeed."

DAVID HUNTER
BSc (Hons) Biological Sciences

BSc (Hons)

Biological Sciences

UCAS code **C120**
Duration **4 years BSc (Hons)**

THE PROGRAMME
This is a broad-based Biology programme with the opportunity in Levels 3 and 4 to select from a diversity of courses ranging from molecular biology and genomics to marine and environmental topics, according to your interests. There is laboratory work throughout where you will learn technical and practical skills.

LEVEL 1
Students study general Biology courses which provide a grounding for the topics taught in later Levels. Courses in practical skills and study skills are introduced as well as courses in Mathematics for Scientists, and Chemistry for Life Sciences.
LEVEL 2
As well as studying four core courses that introduce metabolism, microbiology, and cell and molecular biology, students will select four optional courses from a list of subjects covering animal and plant biology, human systemic physiology and anatomy, and the biosphere.
LEVEL 3
Students study one core course, Research Studies in Biology, and choose seven optional courses from a wide range of subject areas to create a tailor-made degree. Course options include: Pathobiology of Human Disease; Applied Studies in Human Health; Marine Biodiversity; Medical Microbiology; and Applied Systems Human Physiology.
LEVEL 4
Students complete an individual research dissertation and in addition select six subjects from 17 options to further specialise their degree. Courses include: Scientific Management of Marine Environments; Molecular Microbial Ecology; Immunology; Aquatic Toxicology; Molecular Nutrition; and Genomics and Proteomics in Disease.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Biological Sciences (Cell and Molecular Biology)

UCAS code **CC17**
Duration **4 years BSc (Hons)**

THE PROGRAMME
Cell and Molecular Biology is the basic science underpinning our understanding of all life processes and this programme covers cell and molecular biological aspects of animals and plants.

LEVEL 1
Students study the same courses as Level 1 Biological Sciences students.
LEVEL 2
Students study the same courses as Level 2 Biological Sciences students.
LEVEL 3
Students will study courses specialising in cell and molecular biology such as Introduction to Food Microbiology, Pathobiology of Human Disease, and Biotechnology while getting the opportunity to choose three courses from seven related subjects including: Applied Studies in Human Health; Marine Biodiversity; Medical Microbiology; and Applied Systems Human Physiology.
LEVEL 4
Students complete an individual research dissertation and study six courses that expand on cell and molecular biology. Courses include: Receptor Signalling in Health and Disease; Molecular Toxicology; and Immunology.

BSc (Hons)

Biological Sciences (Human Health)

UCAS code **CB99**
Duration **4 years BSc (Hons)**

THE PROGRAMME
This programme comprises a core of biology with an additional emphasis on the study of topics central to human health and wellbeing, such as nutrition and exercise science and physiology. There is some flexibility in programme structure to design it according to your interests or career aspirations.

LEVEL 1
Students study the same courses as Level 1 Biological Sciences students.
LEVEL 2
Students study the same courses as Level 2 Biological Sciences students with one additional core course in Systemic Physiology and Anatomy.
LEVEL 3
This Level looks at courses in: Pathobiology of Human Disease; Molecular Biology; Applied Studies in Human Health; and Applied Systems Human Physiology. Students also get the opportunity to choose three courses from five subject options including: Medical Microbiology; Biotechnology; and Concepts in Beverage Science.
LEVEL 4
Students complete an individual research dissertation and study six advanced-level courses such as: Receptor Signalling in Health and Disease; Molecular Toxicology; and Immunology.

Please note that courses within programmes are subject to change.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Marine Biology

UCAS code **C160**
Duration **4 years BSc (Hons)**

THE PROGRAMME
Levels 1 and 2 provide a foundation in biology, including ecology, pollution biology, and man's impact on the environment. Level 3 gives a thorough grounding in many aspects of marine biology and Level 4 explores the applications of marine biology to marine resource development and marine environmental protection. Fieldwork plays an important part in the programme.
The programme aims to produce good marine biologists with a training in applied aspects of marine resource exploitation and protection. Breadth in the curriculum is provided by options including molecular biology and microbiology.

LEVEL 1
Students study the same courses as Level 1 Biological Sciences students.
LEVEL 2
Students study similar courses as Level 2 Biological Sciences students with a bigger emphasis on plant and animal biology subjects.
LEVEL 3
Core courses focus on Marine Biodiversity and Marine Environmental Biology, with four courses selected from eight options including: Medical Microbiology; Pathobiology of Human Disease; Introduction to Food Microbiology; and Applied Studies in Human Health. Students take a week-long field trip to Scotland's West Coast, participating in sampling methods and marine surveying techniques.
LEVEL 4
Students complete an individual research dissertation as well as six courses in advanced marine biology: Scientific Management of Marine Environments; Marine Biological Survey and Analysis; Stressors and Sustainability; Management of Marine Developments and Protected Areas; Marine Fisheries Biology and Aquatic Toxicology. Students will also have the opportunity to go on a field trip to St Abbs to learn about mapping of the foreshore.

MBiol

Biology

UCAS code: C100
Duration 5 years MBiol

THE PROGRAMME

This MBiol Biology programme expands upon the BSc (Hons) Biological Sciences programme offerings. Level 5 provides training in industrial and entrepreneurial skills, as well as offering students the opportunity to undertake a significant entrepreneurial, laboratory or field-based research project.

LEVEL 1

Students follow the same courses as Level 1 Biological Sciences students.

LEVEL 2

Students follow the same courses as Level 2 students following any BSc (Hons) programme within Biology.

LEVEL 3

Students follow the same courses as Level 3 students following any BSc (Hons) programme within Biology.

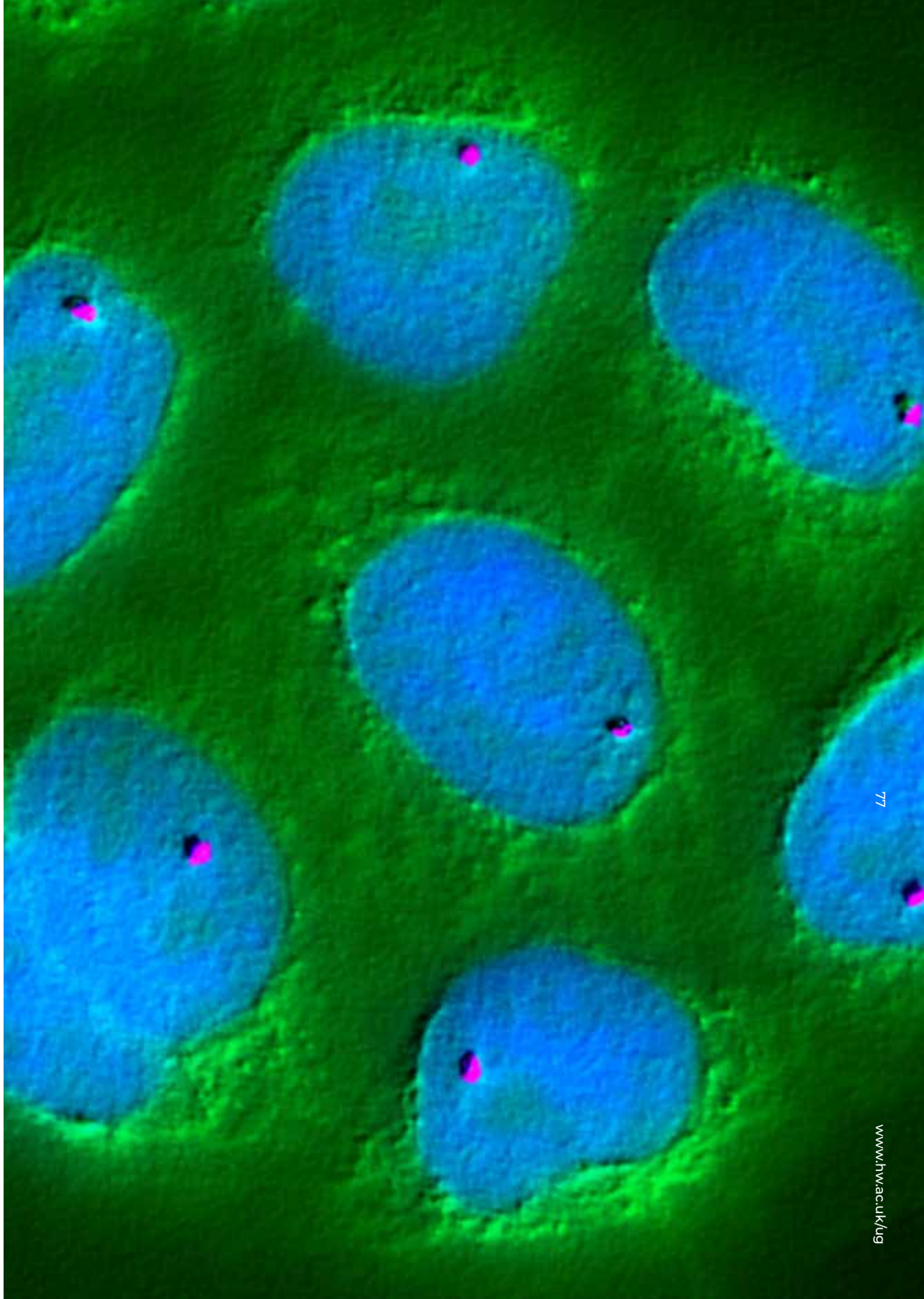
LEVEL 4

Students follow the same programme structure as Level 4 students following any BSc (Hons) programme within Biology.

LEVEL 5

Students will take two mandatory courses and four optional courses. The project component (both execution and reporting) will focus on laboratory research and business needs.

See pages 230-231 and our website for entry requirements.



WHY HERIOT-WATT?

The QS World University Rankings by Subject 2020 ranks Heriot-Watt in the top 150 universities in the world for Civil and Structural Engineering which puts us 13th in the UK and 2nd in Scotland

Civil Engineering is ranked 8th in the UK and 2nd in Scotland for overall satisfaction in the National Student Survey 2020

The Times / The Sunday Times Good University Guide 2021 ranks us 1st in Scotland and 6th in the UK for Civil Engineering

THE TIMES
THE SUNDAY TIMES

Study Abroad

Study in Dubai

Study in Malaysia

CREATE A SUSTAINABLE FUTURE

Be FutureMade in Civil and Structural Engineering

BEng (Hons) / MEng Civil Engineering
BEng (Hons) / MEng Structural Engineering

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-civil

Be FutureMade in

Civil and Structural Engineering

Throughout the world civil and structural engineers provide the infrastructure which underpins economic development and ensures a better quality of life. Our Civil and Structural Engineering programmes will equip you to build the future; both subject areas cover the main disciplines of structures and geotechnics, as well as water and transportation engineering. They focus on understanding scientific principles, knowledge of materials, and the art of analysis and synthesis. Structural Engineering additionally cultivates skills for the creative development of designs for construction projects.

All of our programmes are supported by the Civil Engineering Industry Advisory Committee involving representatives from major multinational employers. This committee ensures your learning is exactly what industry needs and that you will be work-ready on graduation.

YOUR CAREER PROSPECTS

Our engineering degrees are highly rated and industry-focused, leading to excellent employment prospects. Our graduates work for engineering consultants, contractors or government at management level, contributing to the design of large or complex infrastructure such as urban drainage systems, airports, bridges, sports stadiums, high-rise structures and power stations.

"Heriot-Watt University produces well-rounded graduates who integrate well into the workplace and have a solid understanding of the essentials of engineering. This is what we need in industry."

GORDON BUCHAN
Divisional Director, Pell Frischmann

PROFESSIONAL RECOGNITION AND EXEMPTIONS

Civil and Structural Engineering programmes are accredited on behalf of the Engineering Council by the Institution of Civil Engineers, the Institution of Structural Engineers, the Chartered Institution of Highways and Transportation and the Institute of Highway Engineers, which together represent around **100,000 of the world's leading professional engineers.**

Our MEng degrees are accredited as fully satisfying the educational base for a Chartered Engineer (CEng); no further learning is required. The BEng degrees are accredited as partially satisfying the educational base for a Chartered Engineer (CEng) and a programme of accredited further learning will be required for graduates aspiring to become a chartered engineer.

OPPORTUNITIES ABROAD

Through Heriot-Watt's Go Global programme all students can apply to study at our Dubai or Malaysia campuses. MEng students can additionally apply to study at a partner institution in North America or Europe.
www.hw.ac.uk/goglobal

"The degree you come out with is more than just the academic skills – you build relationships with industry while you study and have the opportunity of practical building experience."

CATRIONA SALVINI
MEng Structural Engineering graduate

MEng / BEng (Hons)

Civil Engineering

UCAS code H201/H200
Duration 5 years MEng/4 years BEng (Hons)

THE PROGRAMME

The programme covers the main civil engineering disciplines of Transport Engineering, Water Engineering, Geotechnics, Materials, and Structural Design, and provides students with the key skills and knowledge required to become Chartered Civil Engineers. The curriculum initially concentrates on analysis and materials behaviour, with increasing focus on design and management in the specialisation years. Throughout, there is an emphasis on personal development within a professional environment.

LEVEL 1

Students study courses that are common across the discipline including: Mechanics; Construction Technology; Mathematics for Engineers and Scientists; Introduction to Materials; and Shaping Tomorrow Together. There are also multiple construction site visits and guest lectures from professional engineers throughout the year.

LEVEL 2

Expands on the topics from Level 1 with subjects such as Analysis of Determinate Structures; Hydraulics and Hydrology A; Surveying and GIS; Civil Engineering Materials; Stress Analysis and Element Strength; and Design Studies. Students also have the opportunity to get hands-on experience through the week-long field course, Constructionarium, working with industry professionals.

LEVEL 3

Focus is on engineering principles, including: Design of Steel Elements; Transport Design, Infrastructure and Society; Geology and Soil Properties; Geotechnics – Introduction to Soil Mechanics; Environmental Technology and Management; and Design of Concrete Elements.

LEVEL 4

Students complete an individual research dissertation, undertake a week-long multi-discipline collaborative design project and, in addition to two core subjects, students select three subjects from a list of eight options including: Structural Element Design, Water and Wastewater Treatment, and Urban Drainage and Water Supply.
(**MEng only**) Students have the opportunity to apply to study at a host institution in North America or Europe as part of an exchange programme. The core content of study will include the design and technical components covered in Level 4 of the Civil Engineering degree.

LEVEL 5 (MEng ONLY)

Students complete a professional design project and select six courses from 20 specialist options, including: Structural Dynamics and Earthquake Engineering; Project Management Theory and Practice; Stability and Dynamics; Environmental Hydrology and Water Resources; and Environmental Planning. Students have the opportunity to go on a field trip to a major European city viewing some of the world's most iconic structures.

Please note that courses within programmes are subject to change.

See pages 230-231 and our website for entry requirements.

MEng / BEng (Hons)

Structural Engineering

UCAS code H241/H210
Duration 5 years MEng/4 years BEng (Hons)

THE PROGRAMME

The programme offers a thorough grounding in the major branches of civil engineering, with a focus on aspects most relevant to structural engineering. The curriculum initially mirrors the Civil Engineering programme, with a stronger emphasis on the skills and knowledge appropriate to creative structural engineering design in the specialisation years.

LEVEL 1

Students study the same courses as Level 1 Civil Engineering students.

LEVEL 2

Students study the same courses as Level 2 Civil Engineering students.

LEVEL 3

Students study the same courses as Level 3 Civil Engineering students.

LEVEL 4

Students complete an individual research dissertation, undertake a week-long multi-disciplinary collaborative design project, and engage in structural engineering subjects in more depth, including: Geotechnics – Soils Strength; Foundation Engineering; and Structural Element Design.
(**MEng only**) Students have the opportunity to apply to study at a host institution in North America or Europe as part of an exchange programme. The core content of study will include the design and technical components covered in Level 4.

LEVEL 5 (MEng ONLY)

Students complete a professional design project and in addition to two core subjects (Finite Element Method Non Linear Analysis, and Safety, Risk and Reliability) select four courses from twelve options including: Structural Dynamics and Earthquake Engineering; Construction Financial Management; Project Management: Strategic Issues; Human Factors Methods; Stability and Dynamics; and Structural Materials. Students have the opportunity to go on a field trip to a major European city viewing some of the world's most iconic structures.

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

Heriot-Watt is ranked 1st in Scotland, and 2nd in the UK for Building programmes by The Times / The Sunday Times Good University Guide 2021

Heriot-Watt is ranked 1st in the UK for Building in the Complete University Guide 2021

Our programmes prepare you for careers in some of the largest construction and surveying companies in the world

THE TIMES
THE SUNDAY TIMES

Complete University Guide

Study Abroad

Study in Dubai

Study in Malaysia

BUILD THE NEW WORLD

Be FutureMade in Construction Project Management and Quantity Surveying

BSc (Hons) Construction Project Management
BSc (Hons) Quantity Surveying

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www.hw.ac.uk/ug-construction

Be FutureMade in

Construction Project Management and Quantity Surveying

Our programmes are internationally recognised for the quality of their teaching and the programmes offered within Construction Project Management and Quantity Surveying will help you build a comprehensive understanding of the subject area, along with the necessary advanced skills to ensure you are equipped to make an impact in industry.

Construction Project Management at Heriot-Watt provides you with the vital skills and versatility required by an increasingly dynamic industry. You will acquire the knowledge, leadership and management skills necessary for the effective delivery of construction projects from inception to occupation.

Our Quantity Surveying (QS) programme builds the skills and knowledge necessary to become a successful quantity surveyor. You will learn the fundamental elements of building before focusing on QS practice and how to manage the cost, legal and economic elements.

YOUR CAREER PROSPECTS

Our graduates work for some of the largest construction and surveying firms worldwide, including **BAM Nuttall, Morrison Construction, Balfour Beatty, Sir Robert McAlpine, Miller Construction, Davis Langdon, Morgan Sindall, Thomas & Adamson, Faithful+Gould** and **EC Harris**, as well as with smaller developers and contracting firms, and the public sector.

"Heriot-Watt sets students on the right path for a career in construction. The industry placements and mentoring schemes that they organise give their students the opportunity to experience real-life projects and cutting-edge industry techniques, enhancing their learning and ensuring they are ready for the working world when they have completed their studies."

PAUL BEATON
Regional Director (Scotland), ISG

INDUSTRY LINKS

The CEMENT (Culture of External MENToring) programme links Level 3 students with professionals in practice who have established successful careers in industry. Through CEMENT you can gain access to work placements, site visits and graduate employment opportunities.

PROFESSIONAL RECOGNITION AND EXEMPTIONS

Our programmes are recognised by the appropriate professional organisations, including the Chartered Institute of Building (CIOB) and the Royal Institution of Chartered Surveyors (RICS). Our Construction Project Management degree is accredited by CIOB and RICS. Our Quantity Surveying degree is accredited by RICS.

CONSTRUCTION AND SURVEYING FACILITIES

We have a suite of built environment facilities including: a light structures lab, an Instron Universal testing machine, an immersive virtual reality system, Autodesk Revit software and Synchro 4D virtual construction software to create simulations.

OPPORTUNITIES ABROAD

Through Heriot-Watt's Go Global programme all students can apply to study at our Malaysia campus.
www.hw.ac.uk/goglobal

"My degree has helped me gain essential skills such as team work, time management and leadership. It has also given me the confidence to pursue a career in the construction industry though participating in a range of realistic multidisciplinary project work over the years."

CHARLOTTE KERR
BSc (Hons) Construction Project Management

BSc (Hons)

Construction Project Management

UCAS code K221
Duration 4 years BSc (Hons)

THE PROGRAMME

The need for graduates equipped to manage projects from inception and design through to construction and occupation has never been greater. The programme aims to provide students with the knowledge, leadership and managerial skills necessary for the effective delivery of such activities.

LEVEL 1

Students study the fundamental themes of building and the roles of the relevant professions. Topics include: Construction Technology; Construction Modelling; Cost Control Principles; Shaping Tomorrow Together; Introductory Economics; Human Geography and The City; and Enterprise and its Business Environment.

LEVEL 2

Further developing the economical, legal and managerial course elements, core courses include: Commercial Law; Construction Modelling; Surveying and GIS; eConstruction; Construction Technology; and Building Services Technology. Two optional courses from a wide range of choices are also selected. Students also have the opportunity to get hands-on experience through the week-long field course - Constructionarium - working with industry professionals.

LEVEL 3

Students will gain knowledge in subjects such as: Safety Management and Site Establishment; Procurement and Contracts; Design Cost Planning and Control; and Project Programming and Control, while selecting two courses to focus on career direction. An optional European field trip and industry mentoring scheme complement and embed studies.

LEVEL 4

Students complete an individual research dissertation, a week-long multi-discipline collaborative design project and study four core courses including: Cost and Value Management; Innovation in Construction Practice; and Construction Project Management.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Quantity Surveying

UCAS code K241
Duration 4 years BSc (Hons)

THE PROGRAMME

Quantity Surveying provides clients of the construction industry with financial, contractual and technical advice ensuring they get value for money from the buildings they construct. The modern quantity surveyor is a construction professional who may be involved at all stages of the design and construction process, from providing business strategy advice and working with architects and design team consultants, through to overseeing the on-site construction phase. The quantity surveyor has a sound understanding of construction technology, project cost planning and control and contractual issues.

LEVEL 1

Students study the same courses as Level 1 Construction Project Management.

LEVEL 2

Students study the same courses as Level 2 Construction Project Management students.

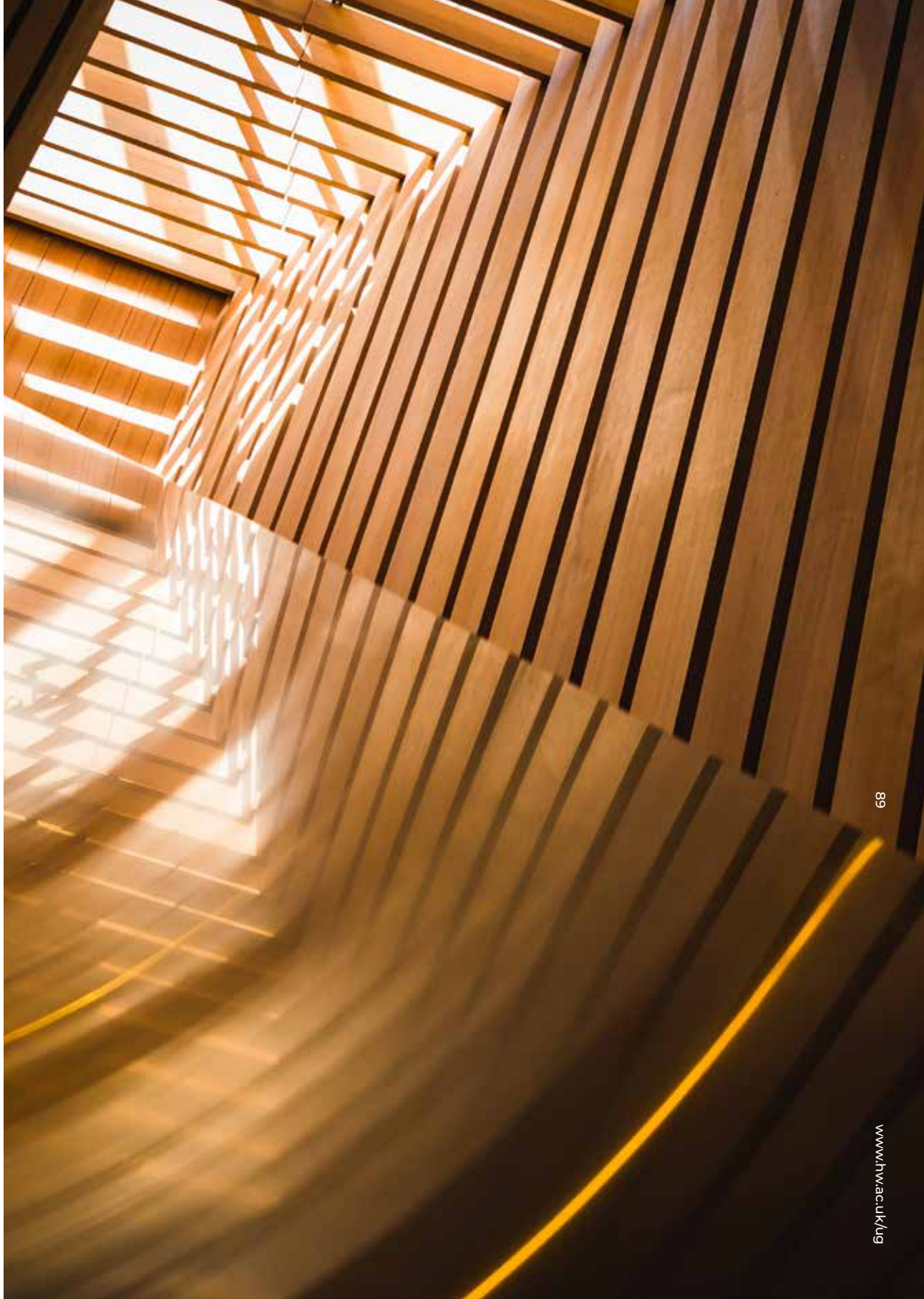
LEVEL 3

Students will gain knowledge in subjects such as: Measurement and Cost Evaluation; Safety Management and Site Establishment; Procurement and Contracts; and Design Cost Planning and Control, while selecting two courses from five options including, Design Issues; Place and Place-Making; and Energy and Buildings. An optional European field trip and industry mentoring scheme complement and embed studies.

LEVEL 4

Students complete an individual research dissertation, undertake a week-long multi-discipline collaborative design project and study four core courses: Cost and Value Management; Quantity Surveying Practice; Innovation in Construction Practice; and Construction Information Management.

Please note that courses within programmes are subject to change.



WHY HERIOT-WATT?

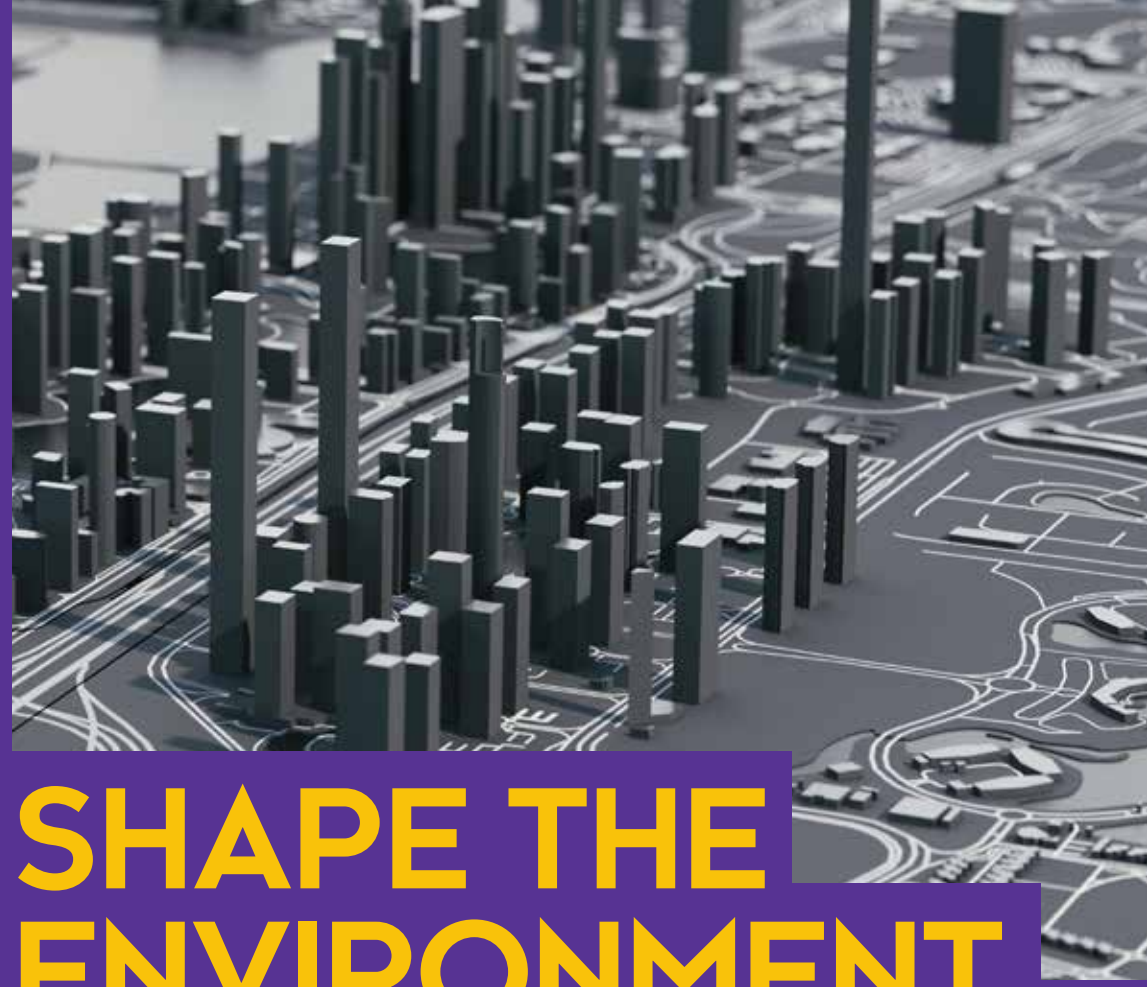
We are ranked 1st in Scotland for Building and Town and Country Planning, by The Guardian University Guide 2021

We are ranked 2nd in Scotland and 5th in the UK for Town and Country Planning and Landscape Design by the Complete University Guide 2021

We are ranked 2nd in Scotland and 10th in the UK for Town and Country Planning and Landscape by The Times/ The Sunday Times Good University Guide 2021

THE TIMES
THE SUNDAY TIMES

Complete University Guide



SHAPE THE ENVIRONMENT, PLAN OUR CITIES

Be FutureMade in Geography and Urban Studies

BSc (Hons) Geography
MA (Hons) Geography, Society and Environment
BSc (Hons) Urban Planning and Property Development

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www.hw.ac.uk/ug-urban

Be FutureMade in

Geography and Urban Studies

Our programmes equip you with an understanding of place and the processes – both natural and human – which shape them.

Our Geography programmes cover human geography, physical geography, social policy, economics and modern studies. They combine theory and practical work drawn from these main subject areas to create an inherently interesting and broadly defined university degree. Our Geography BSc focuses on physical geography, studying the processes that shape the natural environment, including hydrology, geology and geomorphology. It is a complement to our Geography, Society and Environment MA which looks at human geography, exploring the ways in which people shape and are shaped by the places and environments in which they live.

Studying Urban Planning and Property Development with us prepares you for a professional career in real estate investment, development, or urban planning and design. It brings together theoretical, practical and policy content from both spheres – town planning and real estate.

YOUR CAREER PROSPECTS

Our graduates are much sought after and build successful careers in the public and private sectors at national and international levels.

Our two geography programmes cover the fundamentals in physical and human geography, and provide complementary study pathways. As a result we ensure our students become flexible and creative graduates, able to apply their skills and knowledge to a range of careers. This could include careers in environmental engineering, water resource management, GIS and mapping, transport, public policy and environmental consultancy.

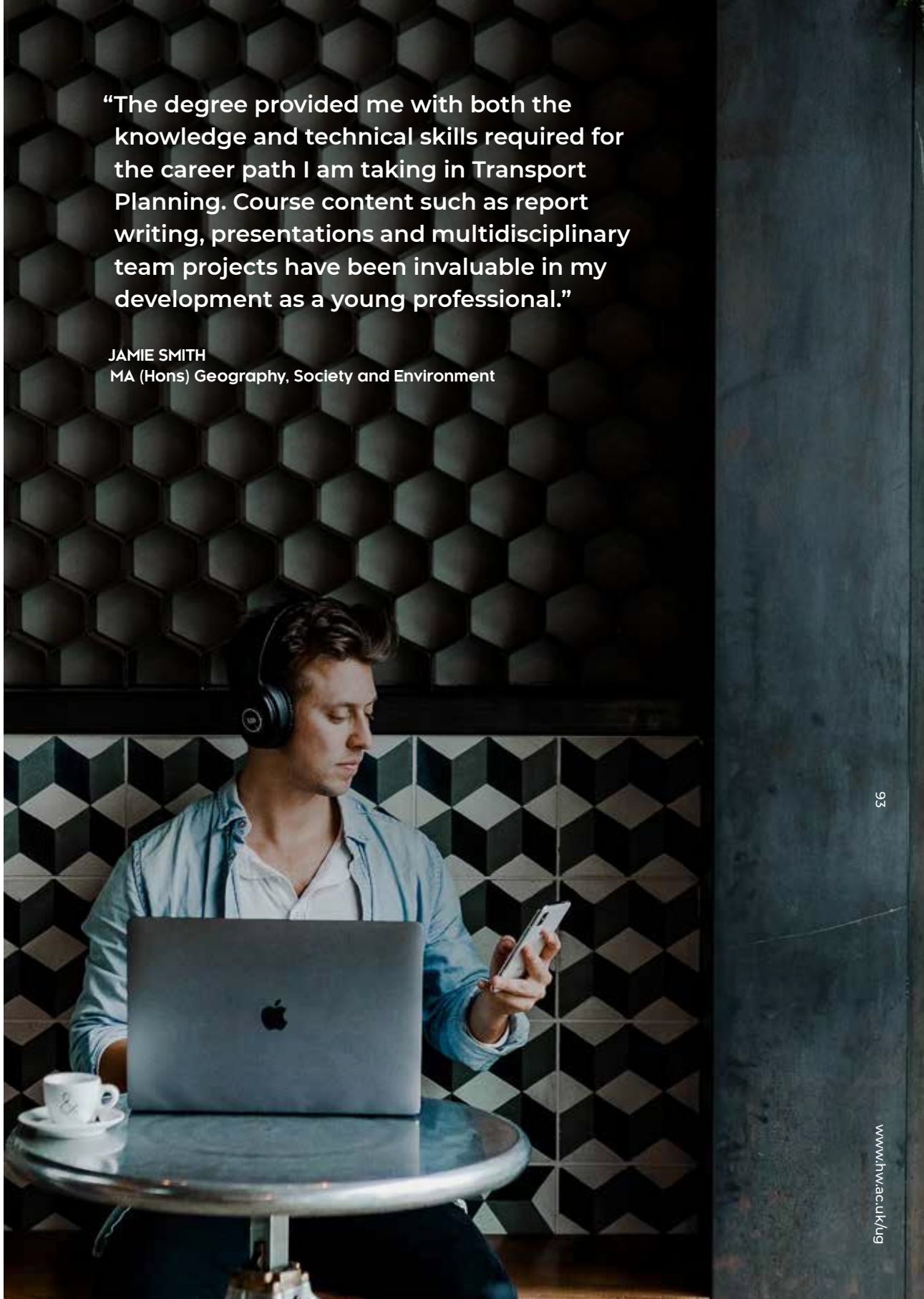
Graduates from our Urban Planning and Property Development programme pursue careers in property management, property development, local authority plan making, environmental planning and green infrastructure, transport and active travel, and urban design.

PROFESSIONAL RECOGNITION

Our Urban Planning and Property Development programme is accredited by the Royal Institution of Chartered Surveyors (RICS) and the Royal Town Planning Institute (RTPI).

MENTORING

In Level 3 all students are given the opportunity to take part in a professional mentoring scheme which matches them with local practitioners. This scheme can help with your job prospects, internship opportunities and provide information about professional memberships.



"The degree provided me with both the knowledge and technical skills required for the career path I am taking in Transport Planning. Course content such as report writing, presentations and multidisciplinary team projects have been invaluable in my development as a young professional."

JAMIE SMITH
MA (Hons) Geography, Society and Environment

BSc (Hons)

Geography

UCAS code 3K30
Duration 4 years BSc (Hons)

THE PROGRAMME

This programme will provide a broad-based geographical education, focusing on physical geography with a complementary grounding in human geography concepts. Students will receive a solid foundation on a range of topics and subject areas including surveying and mapping skills, quantitative analysis, environmental hazards, and risks and policy evaluation.

LEVEL 1

Providing introductory theory on subjects relevant to real-world issues across the globe such as: Geography Today; Dynamic Earth; Introduction to Human Geography; Shaping Tomorrow Together; Scottish Geographies; and Human Geography and The City. Students also take part in a residential study tour of a major British city.

LEVEL 2

Introducing new laboratory and fieldwork skills in surveying and mapping, mandatory courses include: Urban Political Economy; Catchment Hydrology; City Life and Difference; and Geomorphology, Landscapes and Society, with two optional courses from subjects covering various languages, mathematics, biology and design.

LEVEL 3

Offers more critical understanding of key subjects including: Marine and Coastal Geography; River Geomorphology: Form and Process; Theories and Methods in Geography; Living Planet; Environmental Technology and Management; and Global Challenges. A professional project offers an optional one-week European study trip.

LEVEL 4

Students complete an individual research dissertation, undertake a week-long inter-disciplinary collaborative design project, and complete four core courses: Carbon Capture and Renewable Energy; River Basin and Flood Risk Management; Pollution and Remediation; and Environmental Impact Assessment. Various optional courses are also undertaken.

See pages 230-231 and our website for entry requirements.

MA (Hons)

Geography, Society and Environment

UCAS code 3K3W
Duration 4 years MA (Hons)

THE PROGRAMME

Geography, Society and Environment is designed for motivated individuals with a strong interest in studying global and local challenges in human geography, physical geography, and social and environmental policy. The programme combines theory and practical work with skills-based training in mapping techniques and their application to urban and environmental planning, management and engineering.

LEVEL 1

Students study the same courses as Level 1 BSc Geography students.

LEVEL 2

Students study the same courses as Level 2 BSc Geography students.

LEVEL 3

Offers more critical understanding of key subjects including Governance and Participation; Theories and Methods in Geography; Comparative Urban Development; Global Challenges; and Place and Place-Making. A professional project offers an optional one-week European study trip.

LEVEL 4

Students complete an individual research dissertation, undertake a week-long inter-disciplinary collaborative design project and complete two core courses (Technical Networks and Urban Resilience; Social Sustainability) and a choice of four optional courses from subjects such as: Comparative Social and Cultural Issues; Heritage: International Perspectives; Urban Economy and Property Markets; Planning Theories; and Real Estate Development.

Please note that courses within programmes are subject to change.

BSc (Hons)

Urban Planning and Property Development

UCAS code K490
Duration 4 years BSc (Hons)

THE PROGRAMME

Urban Planning and Property Development combines real estate management, urban and regional planning and design. It aims to produce graduates who can work in the private, public and voluntary sectors of the planning, property development and management industry. The programme is professionally accredited by both the Royal Institution of Chartered Surveyors (RICS) and the Royal Town Planning Institute (RTPI). Successful completion of the degree and subsequent approved practical experience will enable students to apply to become chartered members of the RTPI and/or RICS.

LEVEL 1

Students study the same courses as Level 1 Geography students.

LEVEL 2

The focus is on planning and property development with courses such as: Urban Political Economy; Environment and Behaviour; and City Life and Difference.

LEVEL 3

Advanced planning and property studies are combined in courses including Governance and Participation; Real Estate Development; and Comparative Urban Development. A professional project offers an optional one-week European study trip.

LEVEL 4

Students complete a dissertation, undertake a week-long inter-disciplinary collaborative design project and, in addition to one mandatory course (Urban Economy and Property Markets), students select three courses from 12 options including: Urban Design for Health and Wellbeing; Energy and Buildings; Real Estate Management and Sustainability; and Environmental Planning.

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

General Engineering at Heriot-Watt is ranked 2nd in Scotland and 7th in the UK by The Times / The Sunday Times Good University Guide 2020

We have a leading reputation for industrial links and very high employment levels for our engineering graduates

All of our Engineering programmes are accredited by the relevant institutions

THE TIMES
THE SUNDAY TIMES

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PIONEER NEW SOLUTIONS

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BEng (Hons) Engineering

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Be FutureMade in Engineering

Make a difference in the world with an industry-focused degree that prepares you for a career as a professional engineer.

This one-year Engineering course offers maximum flexibility so you can study a range of subjects in your first year. There is a diverse choice of subjects available and normally students select courses from two or three subject areas. In the second year you can focus on your chosen specialism.

The choice of Engineering-related subjects available is:

- Mechanical Engineering
- Civil Engineering
- Building Engineering
- Chemical Engineering
- Electrical and Electronic Engineering
- Mathematics
- Physics
- Computer Science
- Construction Project Management
- Robotics
- Urban Planning and Studies
- Information Systems

YOUR CAREER PROSPECTS

Employment opportunities for graduates are very good with opportunities across a range of fields including construction, manufacturing, emergent technologies, and consultancy. A diversity of roles will be open to you such as Process Engineer, Marine Engineer, Exploration Geologist, and Field Engineer.

"The degree programme offered by Heriot-Watt University in Chemical and Process Engineering produces graduates who are ready to 'hit the ground running' as they transition from the academic world to a career in industry. In addition to the core engineering and related skills learned over four or five years, graduates are exposed to external industry and gain an appreciation of where, and how, the theories fit in practice provides valuable insight into the contribution they can make as they embark on the next stage of their careers."

ANDREW SCOTT
Business Development Director – LGE,
Babcock International Group

PROFESSIONAL RECOGNITION

All of our Engineering programmes are accredited by the relevant institutions including the Institution of Civil Engineers, Institute of Electrical and Electronics Engineers, Institution of Chemical Engineers and Institution of Mechanical Engineers.

PROGRAMME FLEXIBILITY

This flexible programme offers courses from sciences through to management studies and foreign languages. Students can study on a full or part-time basis. Students also have a Personal Tutor who will advise, offer support and guidance and ensure that courses chosen are relevant to interests and future goals.

BEng (Hons)

Engineering

UCAS code **H100**
Duration **4 years BEng (Hons)**

THE PROGRAMME

The BEng Engineering Programme offers students the opportunity to study a range of subjects in the first year of their degree. From second year, students then focus on their chosen specialisms to work towards an Engineering degree. A diverse choice of subjects is available. Students select eight courses to match their interests, typically choosing from two or three subject areas. Most BEng Engineering students select courses in some form of industrial design, whether it's Electrical, Civil or Chemical Engineering.

SUPPORT AND ADVICE

Each student is allocated to a Director of Studies, who assists in the design of an individualised programme.

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

Ranked 1st in the UK for Physics in the National Student Survey 2020

We are ranked 5th in the UK in the Times/ Sunday Times Good University Guide 2021

All Physics programmes are accredited by the Institute of Physics (IOP)

THE TIMES
THE SUNDAY TIMES

Study Abroad

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SEE THE WORLD IN NEW WAYS

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BSc (Hons) / MPhys Physics

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Be FutureMade in

Physics

Our programme is student-centric and will equip you for a wide variety of careers. It focuses on combining a world-leading foundation in core physics with flexible elective choices to enhance and expand your learning. The careers specialisms within our programme reflects our highly successful research in areas such as quantum communication and computation, novel materials, astronomy instrumentation, lasers, optoelectronics, optical fibres, bio-photonics, nanotechnology and medical physics.

Physics impacts all aspects of our technological society, from high-speed fibre optic telecommunications and mobile computing, to renewable energy, healthcare and nuclear power. It considers fascinating ideas about the fundamental nature of the physical world, from the very fabric of space and time to the mysterious quantum world of subatomic particles. Our programme reflects this exciting and diverse range of concepts and applications and is designed with flexibility so you can explore the areas of greatest interest to you.

We offer a range of exciting opportunities to undertake research in our labs and elsewhere, and throughout your studies you will benefit from the many industrial collaborations and strategic partnerships that we have.

PROFESSIONAL RECOGNITION

All Physics programmes are accredited by the Institute of Physics (IOP). Our students are encouraged to become involved with and recognised by the IOP, which offers benefits including scientific trips, events, information on funding and careers and online access to the Physics World publication.

YOUR CAREER PROSPECTS

Physics graduates from Heriot-Watt have an excellent reputation with UK and international employers. There is ongoing demand for candidates with strong problem solving, mathematical and analytical skills and physics is ideally suited to these challenges; graduates with this specialism can pursue careers in engineering, technology, economics and finance as well as those in pure physics, theoretical physics and mathematics. In addition, the general skills that graduates develop are highly valued by potential employers beyond the scientific domain. Many of our students choose to continue their physics career by studying towards a PhD research degree.

PROGRAMME FLEXIBILITY

Our core physics programme is common to all students and covers fundamental physics and maths, experimental and programming labs, and research projects. The courses include transferable skills, full contextualisation and real-world applications of the fundamental physics being discussed. Enhancing this core programme is a suite of elective choices allowing students to choose non-physics subjects to complement their learning. Specific paths that focus on maths, chemistry and engineering are available, alongside more diverse choices, and can be further enhanced by theme-specific experiments within our teaching labs, and specialist research projects in Levels 4 and 5.

PRIZES AND SCHOLARSHIPS

A number of industry-sponsored and endowed prizes are awarded to students at various stages throughout the programme, including the Neil Forbes/Scottish Enterprise Prizes and the Bryan Award.

MPhys / BSc (Hons)

Physics

UCAS code **F302/F300**
Duration **5 years MPhys/4 years BSc (Hons)**

THE PROGRAMME

Our Physics programme begins by covering subjects such as fields, forces, optics, mechanics and astrophysics. These areas lead on to more advanced discussion of electromagnetism, thermodynamics, quantum mechanics and solid state physics, through which we explore the unique nature of light, space and matter, including the philosophically challenging ideas of quantum physics and relativity. In practical labs you will put learning into practice, developing technical lab skills, as well as creative problem solving, initiative, communication and teamwork, all of which will prepare you for a wide variety of future careers. Through research projects in Levels 4 and 5, you will develop skills in experimental design and/or computational modelling, integrating directly into world-leading research groups, which will put you at the forefront of modern science and innovation.

LEVEL 1

Provides foundations in physics and mathematics and looks at wider aspects of physics through experimental study in practical labs.

LEVEL 2

Introduces important themes of physics through courses in Optics, Astrophysics, Dynamics, Relativity and Electronics. Experimental, programming and communication skills are further developed through practical laboratory activities.

LEVEL 3

Includes courses in: Electromagnetism, Quantum Physics, Solid State Physics and Thermodynamics. Advanced experimental labs, and maths courses, provide in depth expertise to support and consolidate all core learning.

LEVEL 4

Offers advanced courses in Quantum Physics, Solid State Physics, Optics and Lasers, Theoretical Physics and industrial applications of physics. A core part of Level 4 is the individual research project.

LEVEL 5

(MPhys only) A series of elective, specialist courses covering the most advanced elements of physics including: Material Physics, Biophysics, Sensors and Systems, Quantum Systems and Theoretical Physics. A major part of the final year is the advanced research project.

WHY HERIOT-WATT?

Heriot-Watt is ranked 1st in Scotland for Chemistry by the Guardian University Guide 2020

All of our MChem and BSc (Hons) degrees are accredited by the Royal Society of Chemistry (RSC)

Chemistry graduates from Heriot-Watt have a very strong reputation with employers and career prospects are excellent

Study Abroad

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Study in Malaysia

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Be FutureMade in Chemistry

MChem / BSc (Hons) Chemistry
MChem / BSc (Hons) Chemistry with a Placement

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www.hw.ac.uk/ug-chemistry

Be FutureMade in

Chemistry

Chemistry is a dynamic and exciting subject which makes important contributions to the development of new pharmaceuticals to treat disease; the synthesis of new 'smart' materials with high-tech applications; the development of new catalytic systems to improve the economic and environmental properties of manufacturing processes; and the production of new fuels; as well as a host of other areas.

Our programmes will prepare you to address the important challenges facing today's world. The broad range of fundamental skills acquired through our Chemistry degrees means that graduates are in high demand, not just in the chemical industry but in a range of employment sectors.

"The learning experience at Heriot-Watt was never just theoretical, and the links with practical and commercial applications were always made clear, helping bring my learning to life. I am now a Senior Director at the World Energy Council, where I lead our engagement with corporate partners, 90+ member countries around the world, governments and institutions, and our Future Energy Leaders Programme."

JONATHAN OXLEY
Senior Director, World Energy Council
Chemistry Alumnus

YOUR CAREER PROSPECTS

All Chemistry graduates from Heriot-Watt have a very strong reputation with employers and career prospects are excellent. Industry and business particularly appreciate the practical abilities learnt in our labs and the good communication skills of our graduates.

A wide range of roles across a diversity of fields will be open to you including within the pharmaceutical, biomedical, biochemical, healthcare, agriculture, and food, drink and water industries. Opportunities also exist in the chemical, petroleum, electronic, aerospace and communications industries.

PROFESSIONAL RECOGNITION AND EXEMPTIONS

All of our MChem and BSc (Hons) degrees are accredited by the Royal Society of Chemistry (RSC). Graduates can join the RSC at the professional member level (MRSC) and, with appropriate postgraduate experience, move on to Chartered Chemist status.

PROGRAMME FLEXIBILITY

The same core chemistry courses underpin all our chemistry degrees, allowing flexible movement between degrees. Movement between BSc (Hons) and MChem degrees is possible up to the end of Level 3.

PRIZES

A number of industrially sponsored and endowed prizes are awarded to students at various stages throughout the programme.

STUDY ABROAD

Our Chemistry with a Placement programme provides the opportunity for study overseas, involving a year-long stay at one of our partner universities in Australia, North America, Spain, Germany or France.

FLEXIBILITY TO SPECIALISE IN CHEMISTRY

This flexible degree programme
Gives you the option to undertake either a broad-based chemistry degree or one specialising in an area which interests you

EXPLORE CHEMISTRY AND SPECIALISMS

CHEMISTRY	SPECIALISING IN BIOLOGY	SPECIALISING IN COMPUTATIONAL CHEMISTRY	SPECIALISING IN MATERIALS AND NANOSCIENCE	SPECIALISING IN PHARMACEUTICAL CHEMISTRY
EXAMPLE COURSES				
Principles of Chemistry Laboratory skills Mathematics Inorganic, Organic and Physical Chemistry Analytical and Materials Chemistry	Cell Biology Human Metabolism Molecular Biology Biological Chemistry	Advanced Mathematics Software Development	Solid State Physics Polymer Chemistry Advanced Instrumental Techniques	Pharmaceutical Chemistry Principles of Drug Discovery and Development Medicinal Chemistry

Level 1 is common to all degree programmes. With a specialism you will begin to take related courses in Level 2 and advanced specialist courses in Levels 3 and 4.

If you undertake an MChem level degree you will study additional advanced specialist courses and undertake an extensive research project at Level 5.

EXAMPLE CAREERS				
Opportunities exist in the chemical, petroleum, electronic, aerospace and communication industries.	Careers are possible within the biomedical, biochemical, healthcare, agricultural, food, drink and water industries.	Graduates with computational chemistry are increasingly sought after in the global chemical industry.	Opportunities exist within a wide range of chemical, engineering and material science companies.	Career prospects include opportunities in research, healthcare, hospitals, universities and drugs monitoring.

For full details of each programme and its courses please go to: www.hw.ac.uk/ug-chemistry

MChem / BSc (Hons)

Chemistry

UCAS code **F101 /F100**
Duration **5 years MChem / 4 years BSc (Hons)**

THE PROGRAMME

The core chemistry courses (along with more specialist courses) ensure a strong basis in theory and laboratory practice. Communication and enterprise skills are an integral part of the programme. Students can tailor their degree to their interests and strengths by taking optional courses to specialise in Pharmaceutical Chemistry, Biochemistry, Computational Chemistry, or Materials and Nanosciences. Students will choose a research project in Level 4 or 5.

LEVEL 1

Students gain a good understanding of the fundamental principles of chemistry and are introduced to laboratory skills illustrating various experimental techniques; students also study mathematics and an optional subject (biology, chemical engineering, physics, economics, or a language).

LEVEL 2

Inorganic, Organic and Physical Chemistry lectures continue with emphasis on the interrelationship between theoretical principles and experimental measurements. Students choose an optional non-chemistry subject.

LEVEL 3

Core Inorganic, Organic and Physical Chemistry lectures continue. Communication and teamwork skills are developed and laboratory work becomes more advanced. Optional courses in both chemistry and non-chemistry disciplines widen students' learning portfolio.

LEVEL 4

Involves advanced topics in Inorganic, Organic and Physical Chemistry, together with specialist options. BSc students choose two advanced chemistry topics and undertake a 16-week dissertation project. MChem students study advanced topics and carry out a group-based project.

LEVEL 5

(MChem only) Involves an extensive 24-week research project within a research group chosen by the student plus specialist advanced options.

Chemistry specialisms

Chemistry with Biology
This degree specialism suits students looking to combine their passion for both chemistry and biology. It aims to provide students with an informed understanding of the chemistry underlying biological systems and the natural environment.

Chemistry with Computational Chemistry
This degree specialism suits students looking to integrate their chemistry more closely with physics, mathematics and computer science. In this specialism, you will learn how computer simulation can assist in solving chemical problems, using methods from quantum chemistry and thermochemistry incorporated into efficient computer programs, to calculate the structures and properties of molecules, and materials, and to understand their chemical reactions.

Chemistry with Materials and Nanoscience
This degree specialism is aimed at students who are interested in chemistry and physics, and their engineering applications. The development of novel materials with useful properties and applications extends students' knowledge outside core chemistry to understanding inorganic and organic materials including polymers and composites. Many technology-based industries are dependent on chemists to develop and manufacture novel and sustainable engineering materials.

Chemistry with Pharmaceutical Chemistry
This degree specialism is attractive to students who want to understand how both chemistry and biology combine to provide the molecular understanding of disease to enable modern drug discovery and development. The pharmaceutical industry is a major component of the global chemical industry.

See pages 230-231 and our website for entry requirements.

MChem / BSc (Hons)

Chemistry with a Placement

UCAS code **F102**
Duration **5 years MChem**

THE PROGRAMME

This programme is attractive to students who wish to gain experience of applied chemistry by undertaking a one-year paid placement in an industrial setting or carrying out an extensive research project within a research group at one of our partner institutions in Australia, Europe or the USA during their fourth year. The core chemistry courses (along with more specialist courses) ensure a strong basis in theory and laboratory practice. Students can tailor their learning by selecting optional courses that will prepare them for more specific career pathways. Communication and enterprise skills are an integral part of the programme. Students benefit hugely in their academic and personal development and future employability from their year in industry or year abroad. Transfer to Chemistry is available up to the beginning of Level 4.

LEVEL 1 TO LEVEL 3

The first three Levels of this programme have the same structure as our Chemistry programme which provides for flexibility to transfer to this programme as late as the end of Level 2. Students considering a placement abroad may wish to select relevant language options as might be necessary to support a year in France, Germany or Spain.

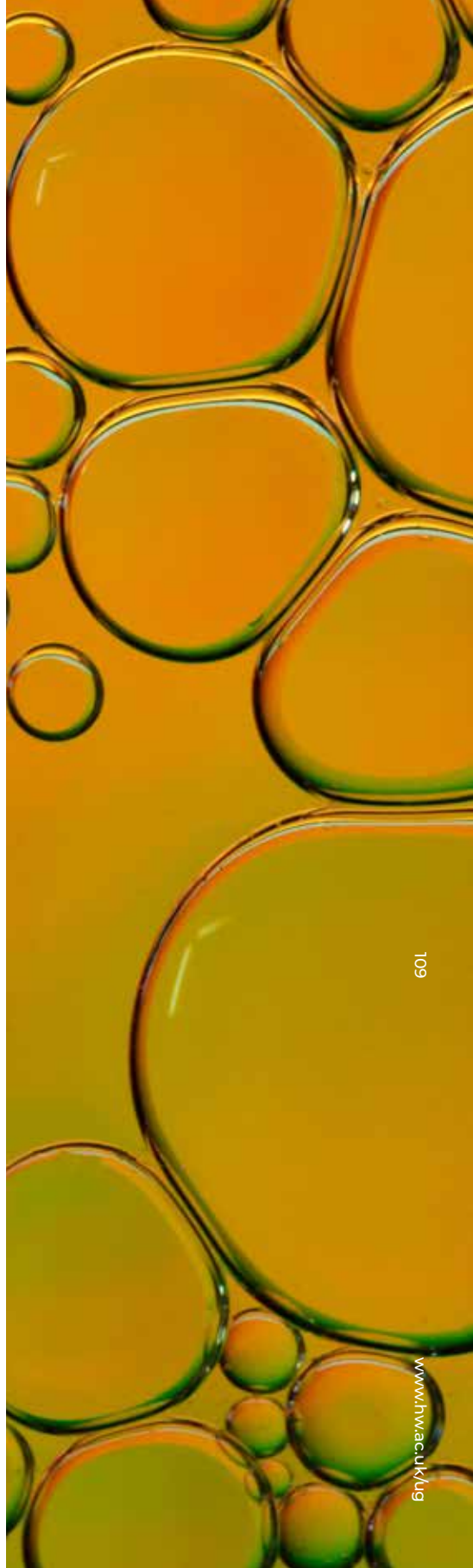
LEVEL 4

Students are out on placement in industry or at one of our partner universities abroad. HWU takes its duty of care for placement students seriously and those on placements will be in regular contact with one of our staff throughout their placement to ensure their well-being and that their placement is progressing well.

LEVEL 5

Involves advanced topics in Inorganic, Organic and Physical Chemistry, along with a short research project and specialist chemistry courses.

See pages 230-231 and our website for entry requirements.



WHY HERIOT-WATT?

Ranked 1st in Scotland for Chemical Engineering in both the National Student Survey 2020 and The Times/Sunday Times Good University Guide 2021

Our BEng and MEng programmes are delivered in Edinburgh, Dubai and Malaysia and accredited by the Institution of Chemical Engineers.

An Industrial Advisory Board ensures our degree programmes are relevant to the needs of industry and careers of the future

Study Abroad

Study in Dubai

Study in Malaysia

CREATE A SUSTAINABLE FUTURE

Be FutureMade in Chemical and Process Engineering

BEng (Hons) / MEng Chemical Engineering

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-chemeng

Be FutureMade in

Chemical and Process Engineering

Our programmes provide you with a sound understanding of the chemical and process engineering fundamentals needed to become a professional Chartered Chemical Engineer. You will develop a thorough understanding of chemical and physical principles and underlying chemical and process engineering concepts, along with problem-solving and analysis skills, and the ability to apply these to real, practical engineering problems.

Chemical and process engineers are creative people who transform raw materials into valuable everyday items and develop the technology and know-how to create a sustainable future. Chemical, process and biotechnology industries are thriving in the UK and globally, with chemical and process engineers playing a vital role.

YOUR CAREER PROSPECTS

Chemical and process engineers have excellent job prospects and they are highly valued by employers for their all-round skills. Graduates are employed in many sectors, from pharmaceuticals, bioprocessing, biotechnology, and food and drink products to power generation, water supply and the oil and gas industry. You will be equipped to pursue opportunities in research and development, including the design, commissioning and management of plant, consulting and technical services.

"The Industrial Advisory Board (IAB) provides an immensely valuable link between Chemical and Process Engineering teaching and students as well as the wider industrial professional communities. Working together with the IAB has helped Heriot-Watt to enhance its teaching and to build stronger links to industry. It also provides industry an opportunity to actively support this vital pipeline of talent."

MARK SUTHERLAND
IAB Chair and Heriot-Watt Graduate,
Plant Manager, Kerry Foods

INDUSTRIAL PLACEMENTS AND WORK EXPERIENCE

You will have the opportunity to obtain a Diploma in Industrial Training (DIT) linked to your degree and be assisted in finding a suitable placement, which may be abroad. The 10-month placement takes place before the final year of your programme and is supported by Chemical and Process Engineering staff. The Careers and Graduate Futures Service provides advice and support to those seeking internships offered by companies over the long vacation period.

PROFESSIONAL RECOGNITION AND EXEMPTIONS

All programmes are accredited by the Institution of Chemical Engineers. The MEng programmes are accredited as fully meeting the academic requirement for registration as a Chartered Engineer. The BEng programmes are accredited as fully meeting the academic requirement for registration as an Incorporated Engineer and partially meeting the academic requirement for registration as a Chartered Engineer.

See pages 230-231 and our website for entry requirements.

MEng / BEng (Hons)

Chemical Engineering

UCAS code **H801/H800**
Duration **5 years MEng/4 years BEng (Hons)**

THE PROGRAMME

The BEng programme shares the first four levels with our advanced MEng programme. Transfer to MEng is offered to those who have performed at the required level in Stage 4. In addition to a grounding in science, mathematics and engineering, our students acquire practical laboratory and computing abilities that are highly sought after by industry.

LEVEL 1

Provides a general introduction to the subject, emphasising the role of basic mathematics and science. Courses introduce basic techniques and principles of chemical engineering including: Material Balances, Energy Balances and Introductory Thermodynamics. Relevant topics from Electrical and Mechanical Engineering are also covered. An awareness of professional and personal development forms a critical part of the teaching.

LEVEL 2

Important themes focus on an understanding of the movement of fluids, heat transfer and how materials behave. Principal components include Fluid Mechanics, Heat Transfer and Thermodynamics. Process modelling is introduced, and a mini group-based design project consolidates the topics covered.

LEVEL 3

Provides opportunities to analyse key operations in the industry, particularly the processing and separation of gases and liquids. In parallel, there are courses looking at chemical reactor theory, how processes are controlled and the prediction of physical behaviour. Biotechnology fundamentals are introduced in the Bioprocessing course, and material on Safety, Sustainability and Economics is consolidated in a multi-disciplinary group-based project.

LEVEL 4

A central theme is the advanced analysis of key processing operations and their control. Specialist topics include Particle Technology, Plant Management and Economics, Sustainability, and Process Integration. The major capstone group-based technical design project is also undertaken at this stage.

LEVEL 5 (MENG ONLY)

Optional courses from a range of specialist engineering subjects such as low carbon solutions, renewable energy technologies, bioprocessing/biotechnology, brewing and distilling and oil and gas technology are studied at this Level. Two major projects are taken in this year: an in-depth individual research project; and an enhanced group-based design project, where students have the opportunity to demonstrate their skills in process design and commercial awareness, culminating in a board-style presentation to senior industry leaders.

INDUSTRIAL PLACEMENTS

The Diploma in Industrial Training (DIT) is an optional 10-month placement which takes place in the penultimate year of the programme, supported by Chemical and Process Engineering staff. On successful completion of a DIT placement, students are eligible for professional registration as an Engineering Technician with the IChemE and Engineering Council.

ASSOCIATE STUDENT (PARTNERSHIP ROUTE)

An alternative route to this degree is delivered in partnership with Forth Valley College, which delivers a two-year HND programme before students transfer into Level 3 at Heriot-Watt University. Students following this route join their fellow students at Heriot-Watt for the Level 2 group-based design project.

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

BEng and MEng programmes are accredited by the Institution of Engineering and Technology (IET)

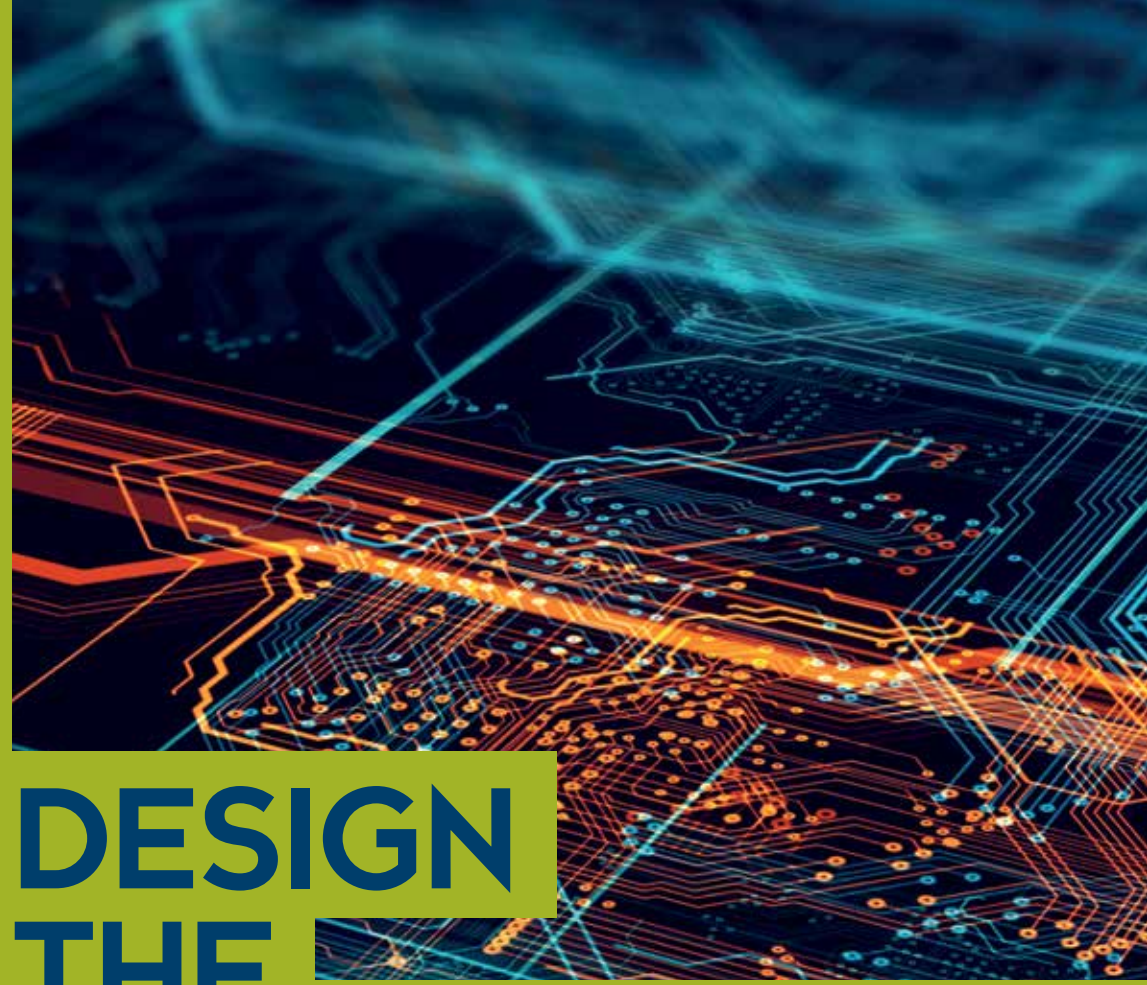
The UK's first national Robotarium is being created at Heriot-Watt and is due to open in 2021

Our degree programmes are designed to offer practical, hands-on experience and develop skills beyond academic content

Study Abroad

Study in Dubai

Study in Malaysia



DESIGN THE FUTURE

Be FutureMade in Electrical, Electronic and Computer Engineering

BEng (Hons) / MEng Electrical and Electronic Engineering
BEng (Hons) / MEng Robotics, Autonomous and Interactive Systems

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-electrical

Be FutureMade in

Electrical, Electronic and Computer Engineering

The rapid worldwide expansion and development of electronic systems, techniques and devices provides the background for our applications-based programmes in Electrical and Electronic Engineering, and in Robotics, Autonomous and Interactive Systems.

Electronics is now an essential part of the products that affect our everyday life from the usefulness of the smartphone to the reliability of the power from our household sockets. As a consequence industry requires engineers to pioneer new developments, to undertake design and supervise production, to market and to install and operate equipment.

Our programmes are aimed at those with a desire to study in the areas of electronics, communications, embedded system design and electrical power technology. They provide the theoretical basis, design methods, and skills for a broad-based education in each of these areas. The Robotics programme builds the knowledge required to take a leading role in interdisciplinary teams to solve the hardware and software problems of future robotic systems.

Our laboratory and project-based learning complements the formal material and is used to encourage investigation and deepen understanding. The project-based work is a particular strength of the programmes.

YOUR CAREER PROSPECTS

Our engineering graduates enjoy excellent employment prospects throughout industry, financial organisations, government and the professions, and are well qualified to join research teams. The Robotics, Autonomous and Interactive Systems programme provides an ideal foundation for careers in the manufacturing, exploration and remote sensing, defence and security, automotive and entertainment industries.

"I chose to study at Heriot-Watt because the programme combined both theoretical and practical classes. Not only has my degree helped me gain the knowledge required for my daily job, but it has provided me with the confidence to present my ideas to others, feel comfortable to ask for help and to work well within a team to complete projects."

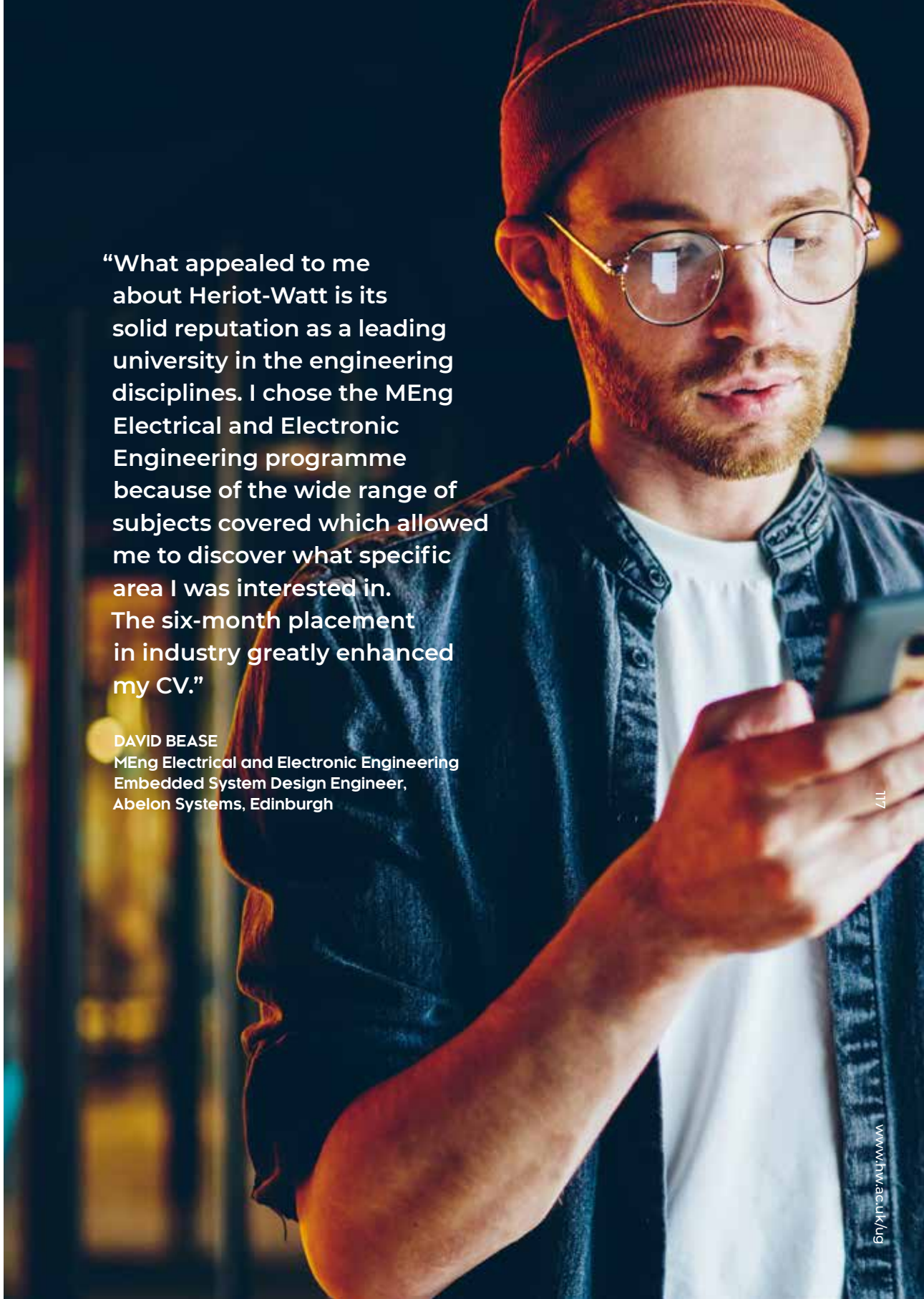
KIERAN MACCOLL
Graduate RF/Microwave Engineer
at Leonardo MW

PROFESSIONAL RECOGNITION AND EXEMPTIONS

All BEng and MEng Electrical and Electronic Engineering, Computing and Electronics and Robotics, Autonomous and Interactive Systems programmes are accredited by the Institution of Engineering and Technology (IET).

INDUSTRIAL PLACEMENTS/WORK EXPERIENCE

An exciting aspect of our MEng degree programmes is the opportunity to work in industry for six months, engaged on a current company project that provides excellent real-world training. We have sent students to both UK and overseas organisations, as well as to local Scottish companies. Many students are offered jobs at their placement company, while others find it to be a very attractive entry in their CV.



"What appealed to me about Heriot-Watt is its solid reputation as a leading university in the engineering disciplines. I chose the MEng Electrical and Electronic Engineering programme because of the wide range of subjects covered which allowed me to discover what specific area I was interested in. The six-month placement in industry greatly enhanced my CV."

DAVID BEASE
MEng Electrical and Electronic Engineering
Embedded System Design Engineer,
Abelon Systems, Edinburgh

MEng / BEng (Hons)

Electrical and Electronic Engineering

UCAS code **H605 / H600**
Duration **5 years MEng / 4 years BEng (Hons)**

THE PROGRAMME

The programme provides a broad-based education in electrical and electronic engineering and is common for the MEng and BEng degrees until the end of Level 3. Candidates are then selected for the two-year MEng programme.

LEVEL 1

Digital Design, Mathematics, Computer Programming, and Electronic Design form the core subjects. In addition, students choose an elective option from a list that includes Mechatronics and Physics.

LEVEL 2

Further study of Electronic Design, Digital Design, Embedded Programming and Mathematics is complemented by introductions to Signals and Electromechanical Systems, supported by appropriate lab and project work.

LEVEL 3

Emphasis turns to design synthesis. Subjects include Energy Systems, Analogue Electronics, Electromagnetics, Physical Electronics, Signals and Electromechanical Systems, and Communications. A quarter of the year is spent working on a large team-based project, incorporating Digital and Software Design, Mechatronics and Management.

LEVEL 4

Students work on a group or individual project and select taught topics such as Embedded Systems, Sustainable Energy and Power Systems, Communications, Image Processing, RF Communications, Analogue Electronics, and Microwave Techniques.

LEVEL 5

(MEng only) A six-month industrial placement or an academic research project starts in the summer after Level 4. In the second semester students choose from a range of advanced Electrical and Electronic Engineering topics.

ASSOCIATE STUDENT (PARTNERSHIP ROUTE)

An alternative route to this degree is delivered in partnership with Forth Valley College.

See pages 230-231 and our website for entry requirements.

MEng / BEng (Hons)

Robotics, Autonomous and Interactive Systems

UCAS code **H671 / HP71**
Duration **5 years MEng / 4 years BEng (Hons)**

THE PROGRAMME

Robotic and Autonomous Systems are playing an increasingly important part in society. These systems are now used in areas such as space and subsea exploration, autonomous vehicle guidance, driver assistance, health care, remote surgery, industrial manufacturing, and domestic assistance. This is a multi-disciplinary domain that brings together electronics, computer software, and mechatronics.

LEVEL 1

Provides the basic Mathematics, Electronics, Mechatronics and Programming skills that form the core knowledge for later work.

LEVEL 2

Builds on the core skills with more advanced Electronic Engineering, Mechatronics, and software topics. Concepts of robotics and autonomy are introduced through courses on Robot Kinematics-Dynamics and Autonomous Vehicle Control. This work is supported by practical activities.

LEVEL 3

Includes more advanced specialisms, including Signal Processing, Artificial Intelligence, Graphics, and System Design. There is a large team design project that builds on and integrates the taught material.

LEVEL 4

Options allow you to focus on particular areas of interest. Topics include: Robotics and Automation, Embedded Systems, Signal and Image Processing, Virtual Worlds and Interaction, and Biologically Inspired Computing. A year-long project allows you to investigate a significant science or engineering problem.

LEVEL 5

(MEng only) A six-month industry placement or an academic research project starts in the summer between Levels 4 and 5. In semester 2, advanced courses can be chosen for specialisation in Robotics towards Electronics Design, Programming, and/or Mechatronics Design for Robotics.

WHY HERIOT-WATT?

We are ranked 1st in Scotland for Mechanical Engineering by The Guardian University Guide 2020

The National Student Survey 2019 ranks us 2nd in Scotland for this subject

Closely involved Industrial Panel who critique 4th year design projects, providing genuine industry experience

Study Abroad

Study in Dubai

Study in Malaysia

DON'T WAIT INNOVATE

Be FutureMade in Mechanical Engineering

BEng (Hons) / MEng Mechanical Engineering

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-mecheng

Be FutureMade in

Mechanical Engineering

Mechanical engineers play key roles in all industrial sectors, ranging from aerospace, oil and gas, through food and transport to manufacturing, chemical and entertainment industries. The long-term supply of energy is an issue of major technical and political importance and mechanical engineers have a critical role to play in the development of solutions.

Modern society needs high-quality Mechanical Engineering graduates and our programmes provide the necessary technical expertise, skills and practical experience to advance as a mechanical engineer. Our degrees provide students with hands-on experience, and opportunities to work on individual and group projects in the workshops and labs, funded by our research and industrial partners.

YOUR CAREER PROSPECTS

Businesses and organisations in the energy field are developing fast. New graduates are highly sought after, and Mechanical Engineering graduates generally are in constant demand. Careers in areas such as the infrastructure industries of energy and transportation, the design and manufacture of advanced equipment, the application of new materials and intelligent systems to products and manufacturing processes, will all be open to you. Our graduates have successfully secured jobs in a wide range of organisations including Shell, McLaren, Mercedes, Transocean and Babcock Marine.

PROFESSIONAL RECOGNITION AND EXEMPTIONS

Our degrees are accredited by the Institution of Mechanical Engineers and are approved stages on the route to Chartered Engineer status.

PROGRAMME FLEXIBILITY

Transfers are possible up to the end of Year 3, and students registered on a BEng programme may transfer to a MEng programme, provided they meet the relevant progression requirements.

INDUSTRIAL PLACEMENTS/WORK EXPERIENCE

Students wishing to obtain a Diploma in Industrial Training (DIT) linked to their degree will be assisted to find suitable placements, possibly abroad. The 10-month placement takes place before the final year of their programme and is monitored by Mechanical Engineering staff.

HERIOT-WATT FORMULA STUDENT TEAM

The Heriot-Watt Formula Student Team design, build and improve three single-seat racing cars every year, which compete against other universities from all over the world at the Silverstone Circuit. The competitions, involving car design, car racing and the electrical car challenge, enable our undergraduate engineers to gain experience through designing and building a complete car with the engineering outcomes affected by their decisions and knowledge. Many employers hold the competition in high regard and participation in this event is looked upon very favourably.

"I really liked the campus atmosphere and the engagement of the lecturers is definitely one of the secrets of Heriot-Watt's success. My degree has given me a great engineering grounding and I gained valuable technical 'soft skills' through the emphasis on group projects, which are vital for any career. I was able to secure summer placements in both third and fourth year and was offered the job at ExxonMobil Engineering as a result."

EMMA HAMILTON
MEng Mechanical Engineering
Cost and Schedule Engineer
at ExxonMobil Fawley

MEng / BEng (Hons)

Mechanical Engineering

UCAS code **H301/H300**
Duration **5 years MEng/4 years BEng (Hons)**

THE PROGRAMME

Mechanical Engineering offers an exciting environment where many skills are brought together to create innovative products and the infrastructure and technology for manufacture. The first two Levels provide a grounding in the core disciplines of Mechanical Engineering, which allows students to make an informed choice of the subsequent options. An individual project forms part of Level 4.

LEVEL 1

Emphasis is on developing basic mathematical, scientific and communication skills. Topics include Mechanical Engineering Science; Physics; Introduction to Electrical Engineering; and Foundation Mathematics.

LEVEL 2

Subjects include Strength of Materials; Machine Dynamics; Applied Thermodynamics; Fluid Dynamics; Design and Manufacture; Electrical Machines; and Engineering Mathematics.

LEVEL 3

Subjects include Strength of Materials; Machine Dynamics; Applied Thermodynamics; Fluid Dynamics; Design and Manufacture; Control Engineering; and Business Awareness.

LEVEL 4

Students choose specialist subjects from Fluid Mechanics; Thermodynamics; Strength of Materials; and Machine Dynamics Control Engineering. Mandatory courses include a year-long individual project plus Engineering Design and Manufacture that includes an industrial project. Other options such as Petroleum Engineering are available.

LEVEL 5

(MEng only) Students may register from Level 1. Entry is offered to those whose performance at the end of Level 3 places them in the upper part of the class. Students study multi-disciplinary topics in Engineering and undertake a group project.

ASSOCIATE STUDENT (PARTNERSHIP ROUTE)

An alternative route to this degree is delivered in partnership with Forth Valley College and Edinburgh College who deliver years 1 and 2 before students transfer into year 3 at Heriot-Watt University.

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

Heriot-Watt is at the forefront of the Brewing and Distilling industry for the UK

Our International Centre for Brewing and Distilling (ICBD) is a world-leading centre of expertise

The programme is organised in collaboration with senior representatives of the brewing, malting and distilling industries

Study Abroad

Study in Dubai

Study in Malaysia

FROM CROP TO SHOP

Be FutureMade in Brewing and Distilling

BSc (Hons) Brewing and Distilling

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-brewdist

Be FutureMade in

Brewing and Distilling

Heriot-Watt has an outstanding reputation for expertise in brewing and distilling and offers the only BSc Brewing and Distilling in the UK.

This programme prepares graduates for entry into the malting, brewing, distilling or allied industries, or to conduct industrial and academic research in a continually evolving area. It covers a broad range of subjects, from brewing science and chemical engineering, to business studies and production management. It is designed to provide a full understanding of the science and technology of the processes involved from cereal farming through to bottling and packaging.

YOUR CAREER PROSPECTS

Through our extracurricular employability activities, students have the opportunity to undertake paid placements at each stage of their degree programme, developing broader skills and experience that are valued by today's employers.

Our graduates are employed in a wide range of roles related to brewing and distilling from plant managers and operators to marketing and sales. Many work at the forefront of innovation, launching new breweries and distilleries, and in senior roles in established companies.

The BSc in Brewing and Distilling also enables graduates to continue their studies in research roles.

PROFESSIONAL RECOGNITION AND EXEMPTIONS

Successful completion of the BSc Brewing and Distilling allows exemption from the first professional examinations of the Institute of Brewing and Distilling.

"My Brewing and Distilling degree at Heriot-Watt gave me an end-to-end and deep knowledge of brewing science and technology, centred on current industry needs and practices. Its recognition has helped me in securing and succeeding in my current role as a brewer at Tennents."

WILLIAM WARRINER
Tennent Caledonian Breweries
BSc Brewing and Distilling graduate
and Watt Club Medal recipient, 2018

BSc (Hons)

Brewing and Distilling

UCAS code **C980**
Duration **4 years BSc (Hons)**

THE PROGRAMME

The programme is organised in co-operation with senior representatives of the brewing, malting and distilling industries who are members of the Industrial Advisory Board of the International Centre for Brewing and Distilling. It is designed to educate potential managers of the malting, brewing and distilling industries and to provide a full understanding of the science and technology of the processes involved from cereal farming to bottling and packaging. Successful completion allows exemption from the first professional examinations of the Institute of Brewing and Distilling.

LEVEL 1

Introduces the necessary Biology, Chemistry, Engineering and related topics that are fundamental to Brewing and Distilling.

LEVEL 2

Continues the study of Biological and Chemical Sciences and Engineering and Process Technologies central to Brewing and Distilling while introducing Business Study concepts.

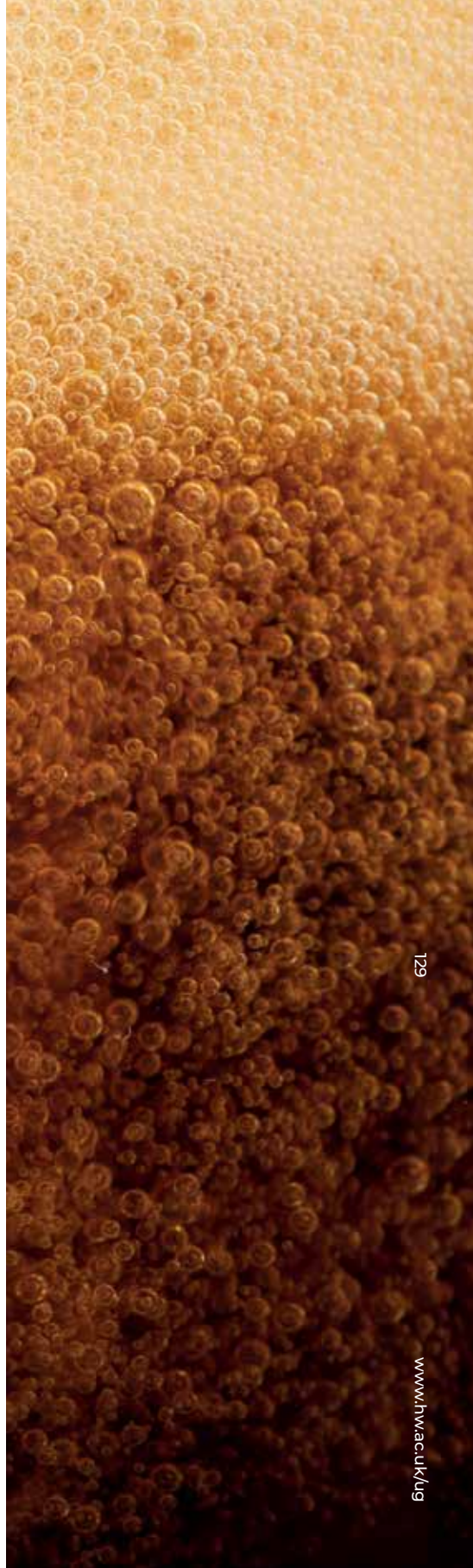
LEVEL 3

Brings specialist courses in Food and Beverage Process Technology and Biotechnology.

LEVEL 4

Focuses on particular aspects of the industry, including: Cereal Technology; Yeast Biology and Fermentation; Beer Maturation; Quality; Packaging Technology; and Commercial Aspects of Brewing and Distilling. The School has a pilot plant brewery and distillery, which is used for teaching the practical aspects of the subject through project work. An independent research project pulls together knowledge and skills gained throughout the programme.

See pages 230-231 and our website for entry requirements.



Be FutureMade with

EDINBURGH BUSINESS SCHOOL AT HERIOT-WATT UNIVERSITY

Join Scotland's largest Business School: we support over 14,000 students based in more than 150 countries

"When joining our School and Heriot-Watt University, you join a network of industry professionals, top academics and people driven to succeed. We are here to prepare you to enter competitive job markets, excel professionally or even start a new business."

PROFESSOR HEATHER MCGREGOR
Executive Dean, Edinburgh Business School

Our mission is to create tomorrow's leaders for tomorrow's markets and we specialise in industry-focused business degree programmes which embrace a truly international outlook.

Studying with us will kick-start your business career: we've an established reputation for producing high-calibre, career-ready graduates. Our alumni include FTSE100 CEOs, several Prime Ministers, and entrepreneurs behind many successful start-up businesses, to name just a few.

Our work with industry ensures your learning will prepare you for the real world. You'll be taught by experienced professionals, and globally-recognised academics, delivering course content that is cutting-edge and up-to-date.

Many of our programmes are delivered across Heriot-Watt's campuses in Edinburgh, Dubai and Malaysia, offering you an exciting opportunity to transfer between our worldwide locations for one semester or more.

The University's student community is highly international, made up from 158 different countries, so you will have many opportunities to meet and learn with people from all over the world. Coupled with our high quality degree programmes, this dynamic, inter-cultural experience will open your mind and expand your learning to ensure your career is FutureMade.

HERIOT WATT UNIVERSITY | EDINBURGH BUSINESS SCHOOL

www.hw.ac.uk/ug

WHY HERIOT-WATT?

Edinburgh Business School was ranked 2nd in Scotland for Accounting and Finance in the Guardian University League Tables 2019

94% of recent graduates are in work or further study 15 months after graduation

Accountancy and Finance is accredited by AIA, ACCA, ICAS, ICAEW and CIMA

Study Abroad

Study in Dubai

Study in Malaysia

PROBLEM-SOLVE THE FUTURE

Be FutureMade in Accounting and Finance

MA (Hons) Accountancy
MA (Hons) Accountancy and Finance
MA (Hons) Accountancy and Finance (Accelerated)
MA (Hons) Business and Finance
MA (Hons) Finance

HERIOT WATT UNIVERSITY | EDINBURGH BUSINESS SCHOOL

www.hw.ac.uk/ug

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-accountancy

Be FutureMade in

Accounting and Finance

Accounting and Finance have become more and more important to the decision-making processes and success of organisations across all sectors and industries. Professionals in this sector work with executive and management teams to provide expert advice and apply accounting and finance knowledge to a range of managerial, business and problem-solving situations.

Our programmes allow you to combine the subjects which best suit your career aspirations. They build an essential knowledge across accountancy, economics, finance and business management in Year 1 and develop specialist expertise in Years 2 to 4.

YOUR CAREER PROSPECTS

Our graduates have an excellent reputation with employers and follow careers in the financial sector, banking, insurance, finance, law, and management. Those undertaking Accounting and Finance may enter training contracts with accounting firms, taking examinations for one of the professional accountancy bodies. Those with Business and Finance degrees will have a wide range of options open to them including business analyst, management consultant and international trade executive.

OPPORTUNITIES ABROAD

Through our Go Global programme it may be possible to transfer for one semester or more to our campuses in Dubai and Malaysia.

ACCELERATED PROGRAMME

We offer a 3-year accelerated MA Accountancy and Finance degree suited to those who have completed A-Level qualifications or equivalent. It starts at an advanced stage (Level 2). See our website for more details.

PROFESSIONAL RECOGNITION AND EXEMPTIONS

Edinburgh Business School is recognised as an official Bloomberg Experiential Learning Partner. Most degrees within this subject area are accredited by the AIA (Association of International Accountants), ACCA (the Association of Chartered Certified Accountants), ICAS (the Institute of Chartered Accountants of Scotland), ICAEW (the Institute of Chartered Accountants in England and Wales), and CIMA (the Chartered Institute of Management Accountants). We are currently seeking accreditation for newer programmes and accreditation exemptions may vary based on the programme joined. See our website for up-to-date accreditation information. Accreditation lets graduates apply for significant exemptions from professional accountancy exams.

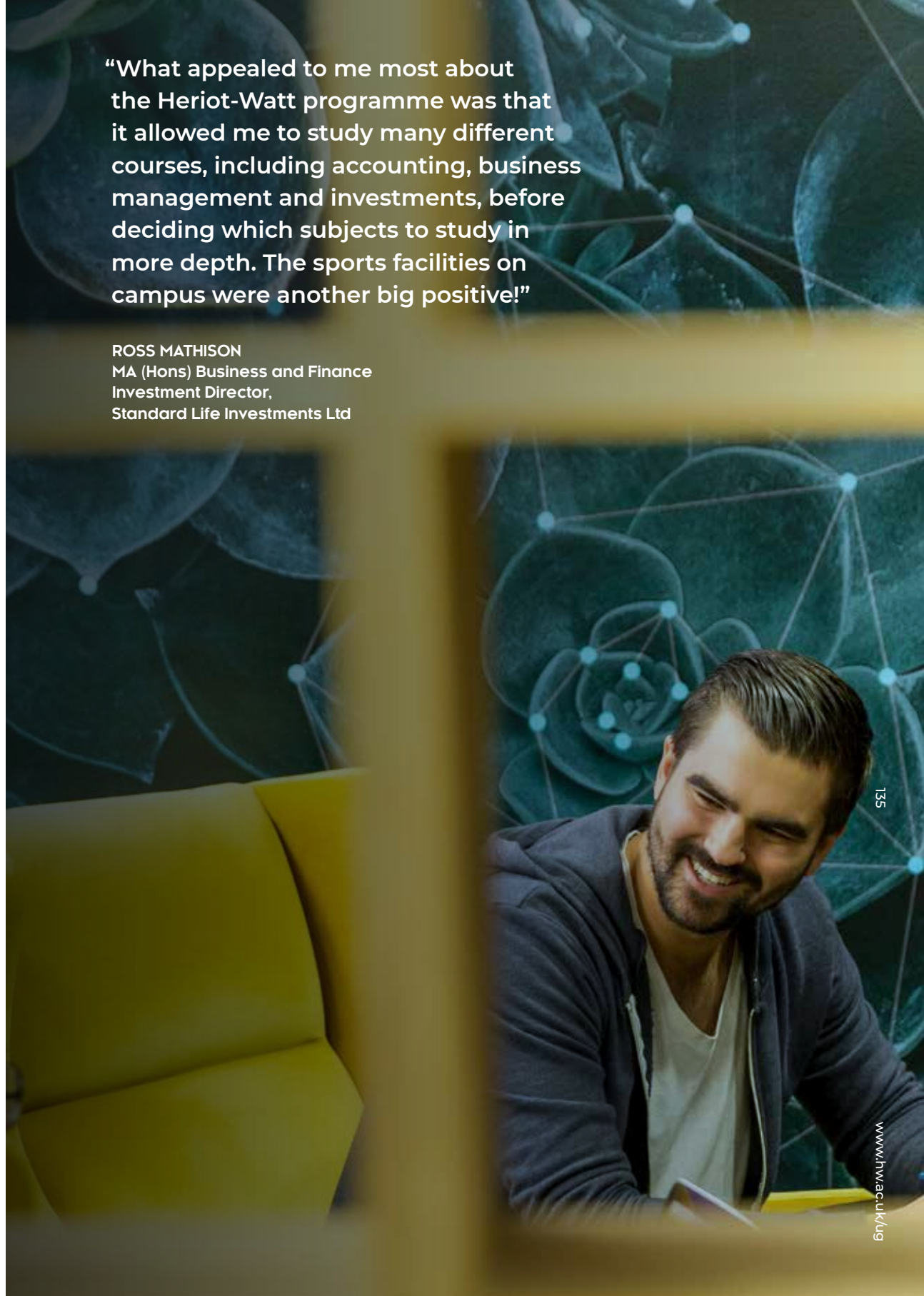
THE INVESTMENT SOCIETY AND LINKS TO INDUSTRY

We enjoy close links with professional bodies and industry. Guest lectures and career events are often held with companies such as Standard Life Aberdeen, Ernst and Young, Tesco Bank and Lloyds Banking Group, which actively seek out our students for internships and graduate positions. Our thriving, student-run Investment Society runs a magazine, organises international trips and holds regular social, academic and networking events with industry. ICAS and KPMG also donate prizes annually to our top-performing students.

BLOOMBERG TRADING ROOM

We've opened a Bloomberg Trading Room on our Edinburgh Campus with 12 state-of-the-art Bloomberg Terminals. These are equipped with industry-standard software that provides live financial data and trading tools to the world's leading banks and corporations.

Bloomberg
Experiential
Learning Partner



"What appealed to me most about the Heriot-Watt programme was that it allowed me to study many different courses, including accounting, business management and investments, before deciding which subjects to study in more depth. The sports facilities on campus were another big positive!"

ROSS MATHISON
MA (Hons) Business and Finance
Investment Director,
Standard Life Investments Ltd

MA (Hons)

Accountancy

UCAS code NN40
Duration 4 years MA (Hons)

THE PROGRAMME

Our Accountancy programme has been designed to provide the knowledge and skills required to pursue a career as a chartered accountant in professional practice, industry or the public sector. However, the broad skill set gained is also highly valuable to a wide range of employers and professions.

LEVEL 1

All students follow the same courses provided across the Edinburgh Business School degrees portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance, and Business and Professional skills.

LEVEL 2

Accountancy knowledge is strengthened through studying Financial Accounting, Management Accounting in Organisations, Quantitative Methods, Financial Markets Theory, Principles of Accounting, and Fundamentals of Finance. Introductory Economics and Management in a Global Context may also be taken or students can choose electives instead.

LEVEL 3

Specialist courses include Taxation (Tax Law), Auditing, Business Research Methods, Business Entities, Intermediate Financial Accounting, Management Accounting Techniques, Corporate Financial Theory, and Commercial Law.

LEVEL 4

Students undertake a dissertation on an area of particular interest to them. In addition, they will study Advanced Financial Accounting, Accounting, Information Systems and Technology, International Bonds and Currency Markets, and either Governance and Professional Ethics or Professional and Critical Theory. Students choose two specialist courses.

See pages 230-231 and our website for entry requirements.

MA (Hons)

Accountancy and Finance

4-year and 3-year options

UCAS code NN34
Duration 4 years MA (Hons)

Accelerated option

UCAS code NN3Y
Duration 3 years MA (Hons)

THE PROGRAMME

Our Accountancy and Finance programme is a specialist degree, particularly well suited to those seeking entry into the accountancy profession and careers in financial services or financial management.

The 3-year accelerated option is suited to those who have completed A-Level qualifications or equivalent. You will start the programme at Level 2.

LEVEL 1

Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2

The study of Accountancy and Finance broadens through Financial Accounting, Principles of Accounting, Management Accounting in Organisations, Fundamentals of Finance, Quantitative Methods, and Financial Markets Theory. Introductory Economics and Management in a Global Context may also be taken or students can choose electives instead.

LEVEL 3

Specialist courses include Business Research Methods, Business Entities, Intermediate Financial Accounting, Management Accounting Techniques, Corporate Financial Theory, and Commercial Law. Two optional courses can be chosen from Managing Corporate Value, Applied Financial Modeling, and Financial Derivatives.

LEVEL 4

Students undertake a dissertation on an area of accounting or finance of particular interest to them. Students study Accounting, Information Systems and Technology, and select either Contemporary Issues in Finance or Equity Markets and Fund Management, plus four other courses.

MA (Hons)

Business and Finance

UCAS code NN23
Duration 4 years MA (Hons)

THE PROGRAMME

Our Business and Finance programme is a specialist joint degree with equal emphasis given to the subject areas of business and finance. The degree is particularly suited to students who wish to gain a firm grounding in business and management, but with an insight into the finance and financial operations of businesses and organisations.

LEVEL 1

Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2

The main aspects of Business Management and Finance are developed. Management subjects include Organisational Behaviour. Finance subjects include Financial Markets Theory, Corporate Financial Theory and Statistical Techniques. Quantitative Methods is taken as preparation for later study. Three elective courses are also taken.

LEVEL 3

Finance courses include Financial Derivatives, Mergers and Acquisitions, International Bond and Currency Markets, and Managing Corporate Value. Business Management courses include Strategic Management.

LEVEL 4

Students undertake a dissertation focusing on a business management or finance topic of interest to them as well as selecting optional courses in Business Management and Finance from the range available at Honours level.

See pages 230-231 and our website for entry requirements.

MA (Hons)

Finance

UCAS code N300
Duration 4 years MA (Hons)

THE PROGRAMME

Our Finance programme is a specialist degree responding to the rapid growth in global financial services. This programme is particularly suited to those seeking entry into the banking or investment management sectors, both nationally and internationally, covering a range of relevant specialist topics in finance.

LEVEL 1

Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2

Students' understanding of the theory of finance is developed in courses such as Financial Markets Theory and Corporate Financial Theory. These are complemented by Statistical Techniques and Quantitative Methods.

LEVEL 3

Students study Financial Derivatives, Mergers and Acquisitions, International Bond and Currency Markets, Business Research Methods, and Managing Corporate Value. Quantitative skills are developed, with the option to also further develop understanding of core economics and accountancy.

LEVEL 4

Students undertake a dissertation on an area of finance of particular interest. Students also study Agency Theory and Corporate Governance, Contemporary Issues in Finance, Risk Management, Derivatives, and Equity Markets and Fund Management, with two further options from finance, economics or accountancy.

WHY HERIOT-WATT?

Over 90% of recent graduates are in work or further study 15 months after graduation

Our Professional Development Track ensures you can add real value to an employer as soon as you graduate

We provide Business students with the skills and expertise to thrive in the organisations and industries of the future

Study Abroad

Study in Dubai

Study in Malaysia

READY FOR THE REAL WORLD

Be FutureMade in Business

MA (Hons) International Business Management
MA (Hons) International Business Management with a Year Abroad
BBA (Hons) Bachelor of Business Administration

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www.hw.ac.uk/ug

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www.hw.ac.uk/ug-management

Be FutureMade in

Business

As the modern business world becomes increasingly dynamic, understanding the ways that businesses and organisations operate – how they develop their strategies, optimise operations and take key decisions – is vital.

At Edinburgh Business School we teach you how to analyse organisations and understand their workings. You will relate the theory to business practice, and be prepared to make a difference in the 'real world'. You won't just learn about strategy, marketing, human resources, finance and legal matters, you will apply what you learn to industry and work on real-world case studies with international and local contexts.

We regularly invite guest speakers from industry to share expertise and our teaching staff have key roles across global businesses. This level of relevance and practicality sets us apart from other universities and ensures you are equipped with the skills and knowledge that employers need.

YOUR CAREER PROSPECTS

Our Business degrees provide a very wide range of employment options, and our graduates have an excellent reputation with employers. Successful careers include marketing executive, operations manager, management consultant, stockbroker, and financial consultant.

FLEXIBILITY TO SPECIALISE

We offer flexible undergraduate degree specialisms in International Business Management to allow you to specialise in a subject that interests you. With each specialist route you will gain the skills and expertise needed to thrive in the positions, organisations and industries of the future. These specialist degrees will expose you to current thinking and practices of successful organisations and leaders in the fields of management, economics, enterprise, human resource management, marketing and operations management. The first year is common to all the International Business Management degrees. You will begin to take specialist subjects in Level 2 and advanced specialist subjects in Levels 3 and 4.

ACCELERATED PROGRAMME

We offer a 3-year accelerated version of our MA International Business Management degree suited to those who have completed A-Level qualifications or equivalent. It starts at an advanced stage (Level 2). See our website for more details.

INTERNATIONAL OPPORTUNITIES

You can take advantage of our international campus locations in Dubai and Malaysia and transfer for one semester or more whilst studying Business. Our International Business Management with a Year Abroad also includes a compulsory third year spent at a partner institution, either in Europe or further afield. Both international options are taught in English and allow students without language skills to gain international experience.

FLEXIBILITY TO SPECIALISE IN INTERNATIONAL BUSINESS MANAGEMENT

This flexible degree programme
Gives you the option to undertake either a broad-based business degree or one specialising in an area which interests you

EXPLORE IBM AND SPECIALISMS

INTERNATIONAL BUSINESS MANAGEMENT (IBM)	SPECIALISING IN ENTERPRISE	SPECIALISING IN HUMAN RESOURCE MANAGEMENT	SPECIALISING IN MARKETING

EXAMPLE COURSES			
Business Research Methods	Enterprise - Concepts and Issues	Resourcing and Talent Management	Global Strategic Marketing
Fundamentals of Marketing	Innovation Management	Critical Approaches to Management	Integrated Marketing
Human Resource Management	Business Venturing	Employee Relations	Communications Branding
Operations Management	International Business	The Contemporary Workforce	Future Issues in Marketing
Commercial Law	International Entrepreneurship	Changing Trends	
Strategic Management			

Level 1 is common to all of these degree programmes. With a specialism you will begin to take related courses in Level 2 and advanced specialist courses in Levels 3 and 4 dependent on your specialism of choice.

EXAMPLE CAREERS			
Management Consultant	Business Development Manager	HR Manager	Marketing Executive
Business Development Manager	Entrepreneur	Management Consultant	Fashion Buyer
International Property Development Manager		Operations Manager	Digital Marketing Manager

For full details of each programme and course modules please go to:
www.hw.ac.uk/ug-management

MA (Hons)

International Business Management

4-year and 3-year options

UCAS code N202
Duration 4 years MA (Hons)

Accelerated option

UCAS code NN3Y
Duration 3 years MA (Hons)

THE PROGRAMME

This flexible degree programme gives you the option to undertake either a broad-based business management degree or one specialising in a specific area that interests you. At Level 1 students follow the same introductory courses offered across all the Edinburgh Business School programmes. Level 2 introduces the more functional areas of business and management, including Marketing, Human Resource Management, and Operations Management. Courses at Level 3 and 4 are highly specialised. Compulsory and optional/elective courses taken in Levels 2, 3 and 4 will depend on the chosen degree specialism preference.

The 3-year accelerated option is suited to those who have completed A-Level qualifications or equivalent. You will start the programme at Level 2.

LEVEL 1

Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2

Knowledge of Business Management is strengthened. Compulsory and optional/elective courses taken will depend on your degree specialism preference.

LEVEL 3

Students study highly specialised courses at Level 3. Compulsory and optional/elective courses taken will depend on your degree specialism preference.

LEVEL 4

Students have the opportunity to develop their particular interests in Business Management by undertaking a dissertation. Students also take business management courses which are dependent on their degree specialism of choice.

See pages 230-231 and our website for entry requirements.

"My years at Heriot-Watt were shaped significantly by the international exposure of studying in Dubai, Paris and Edinburgh. I knew this was the place to come for an international education to prepare for a career anywhere in the world, and the highly committed lecturers made every class a joy through engaging and practical activities."

ANTONIA VOIGHT
MA (Hons) International Business Management with a Year Abroad

MA (Hons)

International Business Management with a Year Abroad

UCAS code N201
Duration 4 years MA (Hons)

THE PROGRAMME

At Level 1 students follow the same introductory courses offered across all the Edinburgh Business School programmes. Level 2 introduces the more functional areas of business and management, including Marketing, Human Resource Management (HRM), and Operations Management. Level 3 is spent studying abroad at a partner institution. The core content studied will be similar to Level 3 of the International Business Management programme. At Level 4, students choose from a range of specialist courses in the key functional areas of Business Management, including Marketing, HRM, and Business Law, which allows them to tailor their degree to meet their career needs and aspirations.

LEVEL 1

Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2

Students study the functional areas of Business Management including Marketing, HRM, Operations Management, Commercial Law, Fundamentals of Marketing, Human Resource Management, Intercultural Issues in Business and Management, Management Theories in Practice, and Operations Management. Optional/elective courses are also taken.

LEVEL 3

Students spend Level 3 studying at one of our exchange partners all of which offer business and management courses in English. Placements are allocated on a competitive basis.

LEVEL 4

Students develop their specialist interests in International Business Management by undertaking a dissertation. Students also take business management courses from a wide range of subjects including International Business and Global Trends and Ethics.

See pages 230-231 and our website for entry requirements.

BBA (Hons)

Bachelor of Business Administration

UCAS code N101
Duration 4 years MA (Hons)

THE PROGRAMME

The Bachelor of Business Administration (BBA) degree aims to develop students' understanding of the area of Business Administration and Management and develop practical skills appropriate for careers in this area. Theory and practice are given equal emphasis to give a holistic understanding of the role of Business Administration as well as knowledge of and skills associated with business start-up, growth and innovation.

LEVEL 1

Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2

Students study Operations Management and can choose courses from the more functional areas of Business Administration such as Fundamentals of Marketing and Commercial Law. Students can also choose from a wide range of elective courses.

LEVEL 3

Students take Strategic Management and Business Research Methods. Further optional/elective courses in business are also taken.

LEVEL 4

Students develop their specialist interests in Business Administration and Management by undertaking a dissertation. Students also study International Business and can choose courses from a wide range of subjects including International Business Law, Retail Marketing, Digital Marketing, Corporate Reporting, and International Accounting.

WHY HERIOT-WATT?

We are ranked 1st in Scotland and 4th in UK for marketing in the National Student Survey 2020

Our MA (Hons) Marketing is part of the Chartered Institute of Marketing (CIM) Graduate Gateway Programme

We will equip you for a marketing career fit for the future across global, digital and sustainable practices

Study Abroad

Study in Dubai

Study in Malaysia

MARKET THE FUTURE

Be FutureMade in Marketing

MA (Hons) Marketing

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www.hw.ac.uk/ug

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E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-marketing

Be FutureMade in Marketing

Marketing is one of the fastest-growing industries across the world, playing a crucial role in our interactions as a global society. It is an essential process for every business or organisation and is growing in importance as global consumer markets become increasingly competitive. Studying this subject will provide you with a solid foundation of business skills and specialist marketing knowledge so you can succeed in a wide range of careers.

Studying with us will develop the essential knowledge and skills related to professional marketing practices and you will become equipped with marketing skills applicable to a variety of roles and business management careers. Our Marketing degree is characterised by three themes which will prepare you for a future marketing career across global, digital or sustainable marketing practice.

Our internationally respected faculty will enhance your learning through their industry experience and research-led knowledge, ensuring your studies reflect contemporary thinking and practice informed by successful organisations and their leaders.

ACCELERATED PROGRAMME

We offer a 3-year accelerated version of our MA Marketing degree suited to those who have completed A-Level qualifications or equivalent. It starts at an advanced stage (Level 2). See our website for more details.

YOUR CAREER PROSPECTS

Marketing and advertising professionals are highly valued in companies and organisations around the world. Our degree programme will open up a range of possibilities, whether you decide to work as a brand manager, a consumer research analyst or perhaps an advertising executive. The diversity of careers in marketing and advertising has been fuelled by ongoing innovation in digital technology, allowing marketing and advertising graduates to enter professions in exciting fields like online digital marketing and social media advertising.

INTERNATIONAL OPPORTUNITIES

Through Heriot-Watt's Go Global programme all students can apply to study at a partner institution in Europe or further afield.
www.hw.ac.uk/goglobal

ACCREDITATION

The MA Marketing is part of the Chartered Institute of Marketing (CIM) Graduate Gateway Programme and has been developed to align with the CIM accreditation criteria. This means that on completion of our MA degree, CIM will recognise your learning and allow you to proceed to the CIM programme of study to gain professional accreditation.

MA (Hons)
Marketing

4-year and 3-year options

UCAS code N202
Duration 4 years MA (Hons)

Accelerated option
UCAS code M13Y
Duration 3 years MA (Hons)

THE PROGRAMME

The MA Marketing develops key knowledge and skills related to professional marketing practices, equipping you with essential marketing know-how for a variety of business management careers. You will learn marketing skills for both business-to-consumer and business-to-business contexts. Our up-to-date and business-relevant programme offers a range of courses that tackle topics and trends currently faced by Marketing professionals, as well as preparing you for future challenges.

The 3-year accelerated option is suited to those who have completed A-Level qualifications or equivalent. You will enter the programme at Level 2.

LEVEL 1

Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2

Students follow a range of cutting-edge marketing courses such as the Fundamentals of Marketing, Consumer Behaviour, Business Skills and Human Resource Management.

LEVEL 3

Students dive deeper into the marketing specialism with courses such as Global Strategic Marketing, Digital Analytics for Marketing, Responsible Marketing, Marketing Insights and Project Management. Electives from across the Edinburgh Business School are also taken.

LEVEL 4

Students will take core courses in Marketing and undertake a specialist Marketing dissertation project. Courses include Leisure Marketing, Future Issues in Marketing, Retail Marketing, Marketing Sustainability, Digital Marketing and Branding. Electives from across the Edinburgh Business School are also taken.

"The MA (Hons) Marketing features several innovative marketing courses, tackling topics and trends currently faced by Marketing professionals, and looks at the complexities and tensions that businesses and consumers face as they navigate challenges such as climate change, digital landscapes and fast-evolving business models. "

MARYLYN CARRIGAN
Professor of Marketing and Sustainability

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

Edinburgh Business School was ranked 1st in Scotland and 3rd in the UK for Economics by the National Student Survey 2019

100% of our recent graduates were in work or further study 15 months after graduating

Our Economics degrees are underpinned by the work of globally active researchers who design and teach our programmes

Study Abroad

Study in Dubai

Study in Malaysia

ASK THE BIG QUESTIONS

Be FutureMade in Economics

MA (Hons) Economics
MA (Hons) Economics and Business Management
MA (Hons) Economics and Finance

HERIOT WATT UNIVERSITY | EDINBURGH BUSINESS SCHOOL

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www.hw.ac.uk/ug-economics

Be FutureMade in

Economics

Economics is the study of how individuals, firms and governments make choices, and how these choices determine the way in which resources are distributed. It helps us understand and improve decision-making for ourselves, organisations, governments and societies, and it throws light on issues as diverse as the environment, unemployment, inflation, poverty, globalisation and trade.

With this in mind, we have designed a suite of undergraduate degree programmes underpinned by the work of our globally-respected researchers, which equip students with a highly desirable balance of quantitative, analytical and communication skills. Our programmes offer lots of flexibility within a tried and tested structure and our student-focused approach has helped our students achieve the best undergraduate marks in the UK, relative to entry requirements, for six of the past seven years.

YOUR CAREER PROSPECTS

Our graduates have an excellent reputation with employers. They have gone on to forge successful careers in the world of business, banking, commerce, research, and policy analysis with organisations such as BP, EY, and the Royal Bank of Scotland, as well as the Scottish and UK Governments.

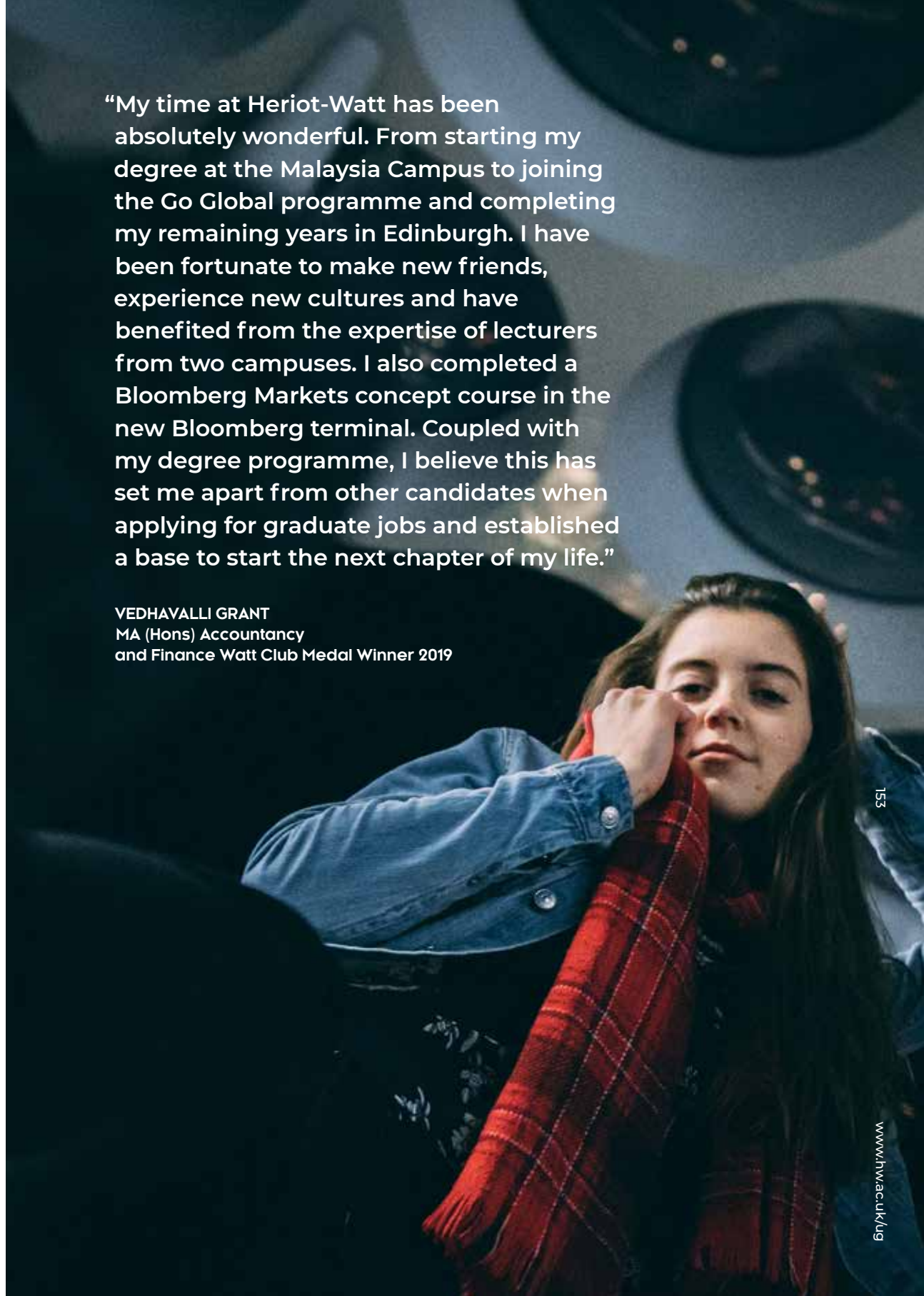
A wide range of employment options will be open to you. Potential career roles include economist, chartered accountant, unit trust administrator, stockbroker, and performance analyst. Options for those combining Economics with a specialism include, management consultant, operations manager, risk management associate, unit trust administrator, marketing manager, and marketing analyst.

PANMURE HOUSE

Panmure House – the only surviving home of Adam Smith, the father of modern-day Economics – was re-opened by Edinburgh Business School in 2018 following significant restoration. Celebrating Adam Smith's legacy, Panmure House has become an important hub of economic, social and political debate in the heart of Edinburgh's Old Town.

OUR ECONOMICS COMMUNITY

Economics at Heriot-Watt's Edinburgh Business School benefits from a friendly atmosphere and highly engaged staff. We have a popular, student-run Economics Society which hosts regular social events, debates and guest lectures with leading industry speakers and organisations.



"My time at Heriot-Watt has been absolutely wonderful. From starting my degree at the Malaysia Campus to joining the Go Global programme and completing my remaining years in Edinburgh. I have been fortunate to make new friends, experience new cultures and have benefited from the expertise of lecturers from two campuses. I also completed a Bloomberg Markets concept course in the new Bloomberg terminal. Coupled with my degree programme, I believe this has set me apart from other candidates when applying for graduate jobs and established a base to start the next chapter of my life."

VEDHAVALLI GRANT
MA (Hons) Accountancy and Finance Watt Club Medal Winner 2019

MA (Hons)

Economics

4-year and 3-year options

UCAS code L100
Duration 4 years MA (Hons)

Accelerated option

UCAS code L13Y
Duration 3 years MA (Hons)

THE PROGRAMME
The MA in Economics programme does not require prior knowledge of the core discipline of economics. Study begins at an introductory level and the degree has a flexible structure to enable students to tailor their studies so that they can pursue their own interests. As a result, graduates are able to embark upon successful careers, especially in banking, finance, the civil service and a wide range of management roles, and also pursue further study in economics and related disciplines.

The 3-year accelerated option is suited to those who have completed A-Level qualifications or equivalent. You will start the programme at Level 2.

LEVEL 1
Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2
You are introduced to the formal theory of economics and methods used in applied research. Intermediate Economics covers microeconomic models of consumer choice and firm behaviour, and macroeconomic models of long-run equilibrium and short-run adjustments. Students also study Quantitative Methods, Contemporary Economic Policy, and Statistical Techniques.

LEVEL 3
Some of the courses studied during Level 3 count towards the final degree classification. You will complete an econometrics course and econometrics project, a course in Advanced Economics, and take courses across a wide range of topics across the school.

LEVEL 4
You will take a number of economics courses, including Advanced Economic Policy. You may elect to study further economics courses or courses from other disciplines, with a wide range of subjects on offer.

See pages 230-231 and our website for entry requirements.

MA (Hons)

Economics and Business Management

UCAS code LN12
Duration 4 years MA (Hons)

THE PROGRAMME
The MA in Economics and Business Management programme requires no prior knowledge of the core disciplines of management or economics. Study begins at an introductory level and the degree has a flexible structure to enable students to tailor their studies so that they can achieve their ambitions and goals. As a result, graduates are able to embark upon successful careers, especially in banking, finance, the civil service, and a wide range of management roles, and also pursue further study in economics, management and related disciplines.

LEVEL 1
Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2
Students are introduced to the formal theory of economics. Intermediate Economics covers core microeconomic and macroeconomic models. You also study Quantitative Methods and Statistical Techniques, as well as two business management courses from a range of options including Human Resource Management, Organisational Behaviour, Marketing Perspectives, and Operations Management. One elective course is also taken.

LEVEL 3
Some of the courses taken during Level 3 will count towards the final degree classification awarded. Students must complete an econometrics course and an econometrics project, a course in Advanced Economics and a minimum of one other Business Management course. Electives are also taken.

LEVEL 4
Students take courses in the core subjects of Economics and Business Management. A set number of courses must be taken from each subject area. Students may also take courses from other disciplines with a wide range of subjects available including Finance, Logistics, and Marketing.

MA (Hons)

Economics and Finance

UCAS code LN13
Duration 4 years MA (Hons)

THE PROGRAMME
The MA in Economics and Finance programme does not require prior knowledge of the core disciplines of economics and finance. Study begins at an introductory level and the degree has a flexible structure to enable students to tailor their studies so that they can achieve their ambitions and goals. As a result, graduates are able to embark upon successful careers, especially in banking, finance, the civil service, and a wide range of management roles, and also pursue further study in economics, finance and related disciplines.

LEVEL 1
Students follow the same courses across the Edinburgh Business School degree portfolio. These courses include introductory Management, Marketing, Economics, Accounting, Finance and Business and Professional skills.

LEVEL 2
Students are introduced to the formal theory of economics and the methods used in applied research. Intermediate Economics covers core microeconomic models of consumer choice and firm behaviour, and macroeconomic models of long-run equilibrium and short-run adjustments. Other courses include: Financial Markets Theory, Corporate Finance Theory, Quantitative Methods, and Statistical Techniques.

LEVEL 3
Some of the courses taken during Level 3 will count towards the final degree classification awarded. Students must complete an econometrics course and an econometrics project, a course in Advanced Economics and a minimum of one other Finance course. Electives are also taken.

LEVEL 4
Students will take courses in the core subjects of Economics and Finance. A required minimum number of courses must be taken from each subject area. Students may also take courses from other disciplines with a wide range of subjects available.

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

We have the **highest ranking in Scotland for employability** from languages degrees (Guardian University League Tables 2019)

In the National Student Survey 2019 we achieved **92% Overall Student Satisfaction** for our programmes

The Department of Languages and Intercultural Studies has an **international reputation for excellence**

Study Abroad

Study in Dubai

Study in Malaysia

SHAPE GLOBAL RELATIONS

Be FutureMade in Languages and Intercultural Studies

MA (Hons) Languages (Interpreting and Translating)
MA (Hons) Applied Languages and Translating
MA (Hons) British Sign Language (Interpreting, Translating and Applied Language Studies)
MA (Hons) International Business Management and Languages
MA (Hons) French/German/Spanish and Applied Language Studies

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E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-languages

Be FutureMade in

Languages and Intercultural Studies

The ability to communicate across different languages is a key advantage in our globalised world. Studying languages opens up a world of possibilities and our alumni work across the globe as freelancers or with international organisations, Non-Governmental Organisations (NGOs) and multinational corporations.

We teach French, German, Spanish, British Sign Language (BSL), and Chinese across a suite of career-focused degrees, and develop specialist skills for careers in interpreting, translation, teaching and international business. For 50 years our applied approach to teaching has produced graduates with the highest professional standards.

Teaching facilities include three state-of-the-art interpreting laboratories equipped for simultaneous interpreting with booths modelled on those used in the European Parliament and United Nations. We have three digital language laboratories with professional standard Computer Aided Translation tools, audio-visual self-study facilities, and a Virtual Learning Environment accessible on- or off-campus.

YOUR CAREER PROSPECTS

Coming from one of only four UK member universities of CIUTI, our graduates are recognised by industry and international organisations such as the European Parliament and the United Nations.

Our programmes equip you for a range of careers including translation, interpreting, international business, the media, retail, senior positions in international organisations, educational and academic careers, and public services.

The BSL programme prepares students to work as BSL/English interpreters and translators in a wide variety of situations including health, media, TV, legal, education, employment, conference, and social work settings.

ACCREDITATION AND RECOGNITION

We are an official Higher Education Partner for the Chartered Institute of Linguists – a professional body that maintains the highest standards for practising interpreters and translators. We are also founding members of CIUTI, the world's oldest and most prestigious international association of universities who train interpreters and translators.

GLOBAL OPPORTUNITIES

With campuses across three different continents, Heriot-Watt University has a truly global reach. In Year 3 you will have the chance to study abroad at a partner university in a country where your studied language is spoken such as: Austria, Belgium, Chile, China, France, Germany, Spain and Switzerland.

"The degree programme is very practical and really prepares you for the job market. What appealed to me about Heriot-Watt are the outstanding facilities, which allow you to practise on similar equipment to professional interpreters, and the teaching staff who are extremely knowledgeable and experienced."

GREGOR MILLAR
MA (Hons) Applied Languages: Interpretation and Translation (Spanish and French)

MA (Hons)

Languages (Interpreting and Translating) (LINT)

UCAS code French/German RR12; French/Spanish RR14; German/Spanish RR24; French/British Sign Language Q193; German/British Sign Language Q194; Spanish/British Sign Language Q195
Duration 4 years MA (Hons)

THE PROGRAMME

In this degree you will study two foreign languages or a foreign language and British Sign Language (BSL) to degree level with a focus on practical language skills, communication studies, European Studies and linguistics/translation studies. Foreign Language students spend Level 3 studying abroad whilst BSL students complete a placement in the UK. If you have only one language at post-Higher/A-Level you will follow an accelerated intensive language course during Level 1 and join the mainstream language courses from Level 2.

LEVEL 1
You will take two courses in each of your languages covering reading/writing, spoken/signed skills, aural/BSL comprehension, and writing in a foreign language/BSL production. You will also take European History and Culture, Introduction to Languages and Intercultural Studies, and a further two electives unless you are doing an intensive course or BSL for your second language.

LEVEL 2
You will take eight courses which include: Language studies in each language (including Translation, Liaison and Conference Interpreting); Society and Institutions in Contemporary Europe; Linguistics; and two elective subjects. BSL students undertake further language sessions instead of elective subjects.

LEVEL 3
You will complete two five-month placements at partner institutions in countries where your chosen languages are spoken. If you study BSL you will consolidate your proficiency in BSL and spend time within the UK signing community.

LEVEL 4
You will study two Interpreting courses, Translation and Spoken/Signing Practice, International Politics and Organisations, and an optional course. You will also complete an Honours Dissertation over both semesters.

See pages 230-231 and our website for entry requirements.

MA (Hons)

Applied Languages and Translating (ALT)

UCAS code French/German RRC2; French/Spanish RRC4; German/Spanish RRF4
Duration 4 years MA (Hons)

THE PROGRAMME

In this degree you will study two foreign languages to degree level with a focus on practical language skills, communication studies, European Studies, and linguistics/translation studies and spend Level 3 on international placement. If you have only one language at post-Higher/A-Level you will follow an accelerated intensive language course during Level 1 and join the mainstream language courses from Level 2.

LEVEL 1
You will take two courses in each of your languages covering reading/writing, spoken, aural, and writing in a foreign language. You will also take European History and Culture, Introduction to Languages and Intercultural Studies, and a further two electives.

LEVEL 2
You will study two courses in each of your two languages (including Translation, Liaison and Conference Interpreting), as well as Societies and Institutions in Contemporary Europe, Linguistics, and two elective courses.

LEVEL 3
You will complete two five-month placements at partner institutions in countries where your chosen languages are spoken, such as France, Belgium, Austria, Germany, Switzerland, Spain or Chile.

LEVEL 4
You will study three optional courses, two translation courses and a course in International Politics and Organisations. You will also complete an Honours Dissertation.

MA (Hons)

British Sign Language (Interpreting, Translating and Applied Language Studies)

UCAS code Q196
Duration 4 years MA (Hons)

THE PROGRAMME

The first undergraduate programme of its kind in Scotland in which British Sign Language (BSL) is studied to professional level. Students train to work as BSL/English Interpreters, and to use BSL proficiently in related professional areas. It includes professional placements in years 3 and 4.

LEVEL 1
Students take two intensive, practice-oriented courses in BSL and courses in Deaf History and Culture, Introduction to Languages and Intercultural Studies, and two elective courses.

LEVEL 2
Students take two intensive, practice-oriented courses in BSL (including language practice and translation and interpreting skills), and courses in Deaf People in Society and Comparative Studies, General Linguistics, Sign Linguistics, and Working with Deaf Communities.

LEVEL 3
This is usually spent in two placements, where students work in the signing community with organisations in the field, further developing their language skills and cultural awareness. This placement is self-financed.

LEVEL 4
This level includes courses in BSL Proficiency, Community and Conference Interpreting, Deaf Political Studies, and Interpreting Placement and Conference in which students work closely with professional interpreters. You will also complete an Honours Dissertation.

See pages 230-231 and our website for entry requirements.

MA (Hons)

International Business Management and Languages (IBML)

UCAS code Main Language: Chinese 0E68; French NR21; German NR22; Spanish NR24
Duration 4 years MA (Hons)

THE PROGRAMME

European and international markets present excellent opportunities for multilingual graduates with business and management skills. This degree programme integrates both academic fields and is offered with Chinese, French, German or Spanish. During Levels 1 and 2 there is a certain amount of flexibility to the language element as you may study one or two languages, with the option to study both from the same level or to take up a second language from beginner's level.

LEVEL 1
Introductory courses in Business Management and either Accounting and Finance or Economics. You will study one language at intermediate level (i.e. post-Higher/A-Level) or Chinese (usually from beginner level) and a second language or two electives, unless studying Chinese from beginner level.

LEVEL 2
You will continue with a main language (Chinese, French, German or Spanish), and study Marketing, Human Resource Management, Operations Management and a further Business option. You will continue your second studied language or take electives.

LEVEL 3
You will spend a full academic year at a Business School or university in China, France, Germany or Spain.

LEVEL 4
You will continue with your main language studies whilst completing an Honours Dissertation and an International Business course. You will also have the choice of three further business management courses.

MA (Hons)

French/German/Spanish and Applied Language Studies

UCAS code French and ALS R100; German and ALS R200; Spanish and ALS R400
Duration 4 years MA (Hons)

THE PROGRAMME

Our Applied Language Studies (ALS) degree is designed to allow you to 'major' in either French, German or Spanish whilst also studying a range of complementary subjects.

LEVEL 1

Language Studies in your chosen language (reading/writing, spoken classes, aural comprehension, writing); Introduction to Languages and Intercultural Studies; Modern History and Culture of France, Germany or Spain. You can also study a second language and courses from selected disciplines from within the School of Social Sciences.

LEVEL 2

Advanced Language Studies (including translation, liaison and conference interpreting); French/German/Spanish Society and Comparative Studies; and Linguistics. Students may continue to study a second language and also choose from a variety of subjects such as Economics, Marketing, Intercultural Communication, or Teaching English to Speakers of Other Languages.

LEVEL 3

You will spend this year abroad, either at a university or teaching English in a school.

LEVEL 4

You will continue with Applied Language Studies in your chosen language and study International Politics and Organisations. You have three optional courses and can choose business, intercultural or interpreting courses. You will also complete an Honours Dissertation.

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

Our Psychology degrees are **accredited by the British Psychological Society (BPS)**

Join a supportive, inspiring environment where you can get involved with **cutting-edge psychological research**

Our Psychology graduates have a **strong record of employment**, progressing to a wide variety of careers

Study Abroad

Study in Dubai

Study in Malaysia

INFLUENCE TOMORROW'S THINKING

Be FutureMade in Psychology

BSc (Hons) Psychology
BSc (Hons) Psychology with Management

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-psychology

Be FutureMade in

Psychology

Psychology is the scientific study of the relationship between mind and behaviour. It uses scientific methods to explore key themes within this relationship, such as: the influence biology has on behaviour; how we develop from early infancy to adulthood; how we perceive, think, solve problems and make decisions; and how we interact with each other.

We offer two specialist undergraduate psychology degrees accredited by the British Psychological Society: BSc (Hons) Psychology, and BSc (Hons) Psychology with Management. Our degrees are shaped by the work and knowledge of research-active academics whose expertise in psychology includes Work, Society and Environment, Lifespan Health and Wellbeing, and Cognition, Brain and Behaviour. We have four specialist labs which facilitate the research of academics and students alike.

You will gain in-depth knowledge across Cognitive Psychology, Developmental Psychology, Individual Differences, Psychobiology, and Social Psychology among others, and develop advanced skills in research, data gathering, data analysis, and report writing. You will also build your creativity, leadership, teamwork, communication, presentation and problem-solving abilities.

YOUR CAREER PROSPECTS

Psychology degrees develop a unique combination of interpersonal and transferable skills that are very attractive to employers. Our graduates have an excellent track record in gaining employment across business, teaching, counselling, nursing, social work, probation work, and market research, as well as in professional psychology as clinical, counselling, educational, forensic, health and occupational psychologists.

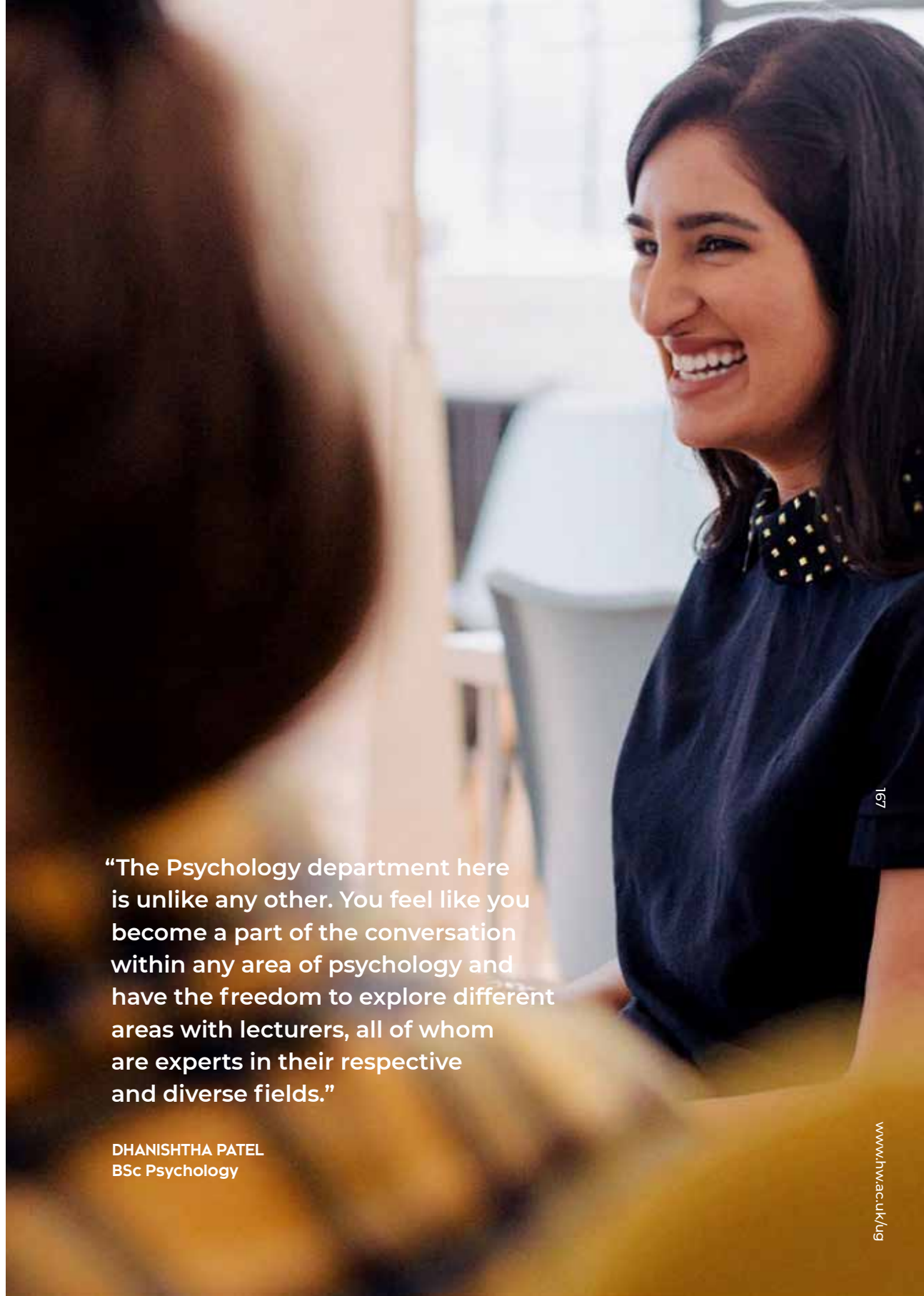
Our degrees have been refreshed in recent years to focus on employability. They now offer the chance to study Psychology with specialist pathways for Health, Education, Social Work or Business.

ACCREDITATION

Both our Psychology degrees are accredited by the British Psychological Society (BPS) and qualify Honours students for graduate registration with the Society. This is required for those wishing to take professional courses and qualify as professional psychologists (e.g. clinical, forensic, occupational, or educational psychologists).

VOLUNTARY RESEARCH ASSISTANTS

Undergraduates have the chance to get involved in real research conducted by staff and PhD students through our Voluntary Research Assistant scheme.



"The Psychology department here is unlike any other. You feel like you become a part of the conversation within any area of psychology and have the freedom to explore different areas with lecturers, all of whom are experts in their respective and diverse fields."

DHANISHTHA PATEL
BSc Psychology

BSc (Hons) Psychology

UCAS code C800
Duration 4 years BSc (Hons)

THE PROGRAMME

The programme covers the main areas of the discipline, namely social psychology, developmental psychology, cognitive psychology, biological psychology, individual differences, and research methods. Other courses emphasise the application of this information to various employment-related contexts and address careers in psychology. Students also take optional courses from subjects such as biological sciences, management, or languages. The programme is accredited by the British Psychological Society.

LEVEL 1

Courses introduce fundamental aspects of Psychology and develop the specific research and academic skills required for psychological research. Additional courses develop computing and study skills and optional courses cover disciplines in biology, marketing, and foreign languages.

LEVEL 2

Courses include Social Psychology, Cognitive Psychology, Philosophy and History of Psychology, Developmental Psychology, and Research Methods. Students also select two courses in biological sciences, marketing, or foreign languages.

LEVEL 3

Courses include Social Cognition and Personality, Cognition across the Lifespan, Psychobiology, Intelligence at Work, and Research Methods. Two optional courses are taken in biological sciences, marketing, or foreign languages.

LEVEL 4

Students devise and conduct a research project in experimental psychology. They study Psychology of Education and Advanced Social Psychology as well as four approved psychology options including Cognition and Emotion, Cognitive Rehabilitation, Industrial and Organisational Psychology, Psychology for Business, Neuropsychology, Consciousness, and Psychology and Mental Health.

BSc (Hons) Psychology with Management

UCAS code C8N2
Duration 4 years BSc (Hons)

THE PROGRAMME

Seventy-five per cent of the curriculum covers the main areas of the psychology discipline; social, developmental, cognitive, and biological psychology, as well as topics such as individual differences, and research methods. The remaining twenty-five per cent introduces management subjects including marketing, human resource management, finance, and management. Teaching is mainly via lectures, but staff and students know each other well through group work in tutorials. Assessment features a mixture of coursework and examination. The programme is accredited by the British Psychological Society.

LEVEL 1

Courses introduce fundamental aspects of Psychology and develop the specific research and academic skills required for psychological research. Management in a Global Context and two additional optional courses introduce the specific areas of management and finance of interest to the student.

LEVEL 2

Psychology courses cover social, cognitive and developmental Psychology as well as Research Methods and the Philosophy and History of Psychology. Two Management courses are chosen from a range of options.

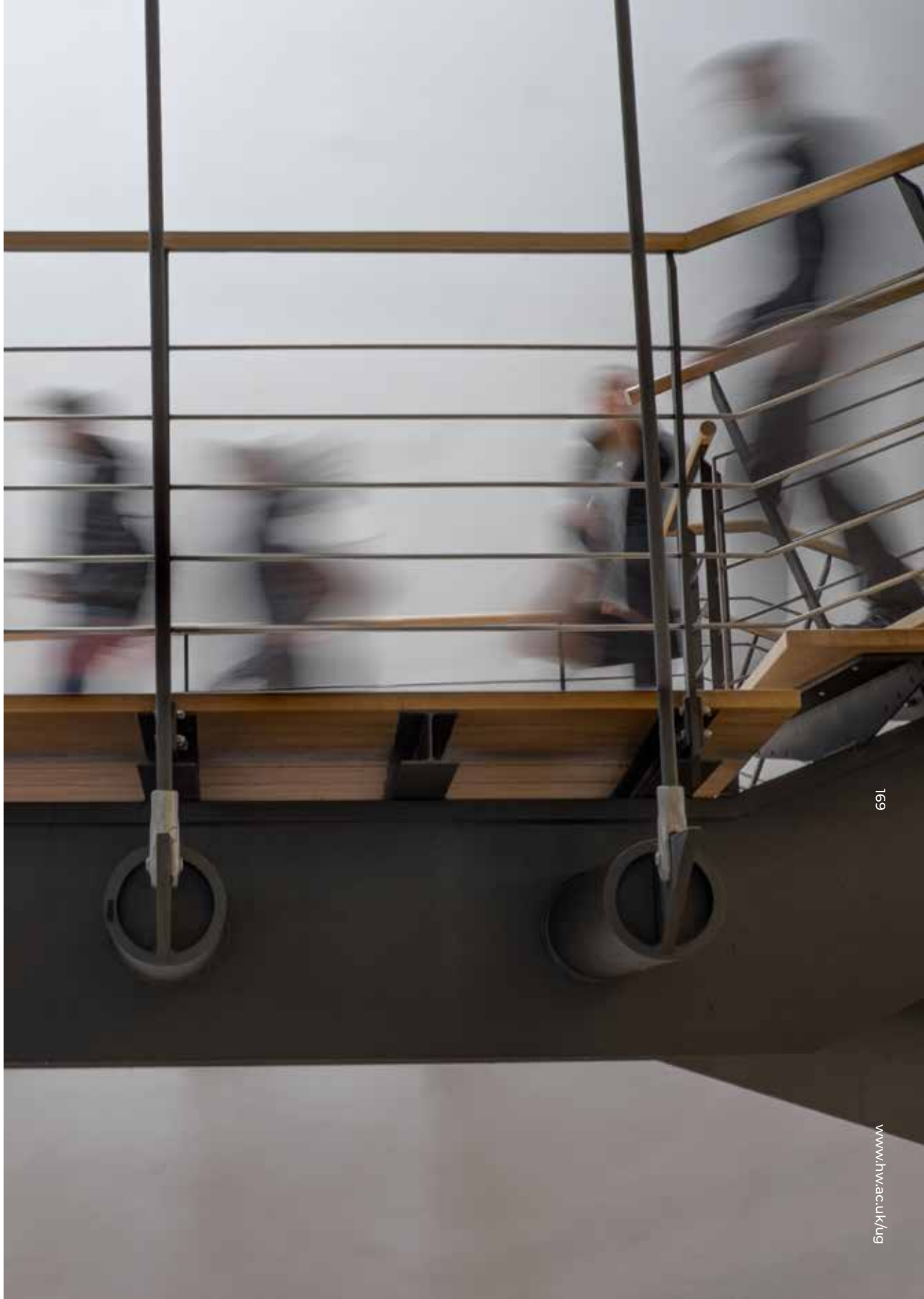
LEVEL 3

Courses include Psychobiology, Intelligence at Work, Social Cognition and Personality, and Cognition across the Lifespan. Students also select two management courses with options covering Project Management, Employment Law, Marketing, Enterprise and other specialist areas.

LEVEL 4

Students devise and conduct a research project in experimental psychology over both semesters and study Psychology of Education and Advanced Social Psychology. Students are also offered four options with the choice of approved psychology options and additional specialist management options.

See pages 230-231 and our website for entry requirements.



WHY HERIOT-WATT?

Our Edinburgh Campus is a **recognised Centre of Actuarial Excellence** by the Society of Actuaries (SOA) in North America, the first Centre of its kind in Europe

The Department of Actuarial Mathematics and Statistics is **one of the world's leading centres for teaching and research** in these areas

Study Abroad

Study in Dubai

Study in Malaysia

WE'VE DONE THE MATHS

Be FutureMade in Actuarial Mathematics and Statistics

BSc (Hons) Actuarial Science
BSc (Hons) Actuarial Science and Diploma in Industrial Training
BSc (Hons) Financial Mathematics
BSc (Hons) Statistical Data Science
BSc (Hons) Data Sciences

www.hw.ac.uk/ug

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-actuarial

Be FutureMade in

Actuarial Mathematics and Statistics

Our Actuarial Science programmes are well regarded throughout the actuarial world. You will be taught by experts in the fields of probability, statistics and financial mathematics, and as many of our teaching staff are professionally-qualified actuaries your learning will be highly relevant and practical.

You will develop skills in specialist mathematical and statistical software to solve real-world problems, learn programming and mathematical modelling, and handle large, complex data sets.

Our programmes offer the chance of an industrial placement or a year studying abroad in Canada or Australia. Actuarial Science students can choose to study at our Malaysia campus for a semester or a year.

YOUR CAREER PROSPECTS

Graduates are much in demand and employment prospects are good. Our actuarial students readily find work as trainee actuaries in the UK or overseas, and they are also well equipped for more general careers in accountancy, banking, stockbroking, or teaching. Investment banking is the main destination of financial mathematicians, however, the skills developed on the programme are desirable to all businesses, and there are many research opportunities.

Career opportunities for suitably qualified statisticians exist in a wide variety of areas, notably the pharmaceutical industry, business, insurance, financial consulting, market research, the civil service and scientific research in areas such as environmental science. There is global demand for Data Scientists across a wide variety of sectors and you may find employment in any area that requires specific mathematical and computational abilities, including business, finance, government, science, transportation, forensics, energy, the environment, or academic research.

"We've engaged with Heriot-Watt for a number of years now for students studying mathematical degrees. We take on interns, placement and graduate students for our Actuarial, Investment, and Life & Financial service unit teams. Heriot-Watt students have found a lot of success at Hymans, either coming through a placement programme then securing a graduate role or coming in as a new graduate after graduation. Many are on their way to being qualified consultants, with some having already achieved this."

HYMANS ROBERTSON

PROFESSIONAL RECOGNITION AND EXEMPTIONS

Our Actuarial Science degrees are fully accredited by the Institute and Faculty of Actuaries and offer potential exemptions from a number of the professional examinations. They offer a fast-track start to the process of becoming a qualified actuary.

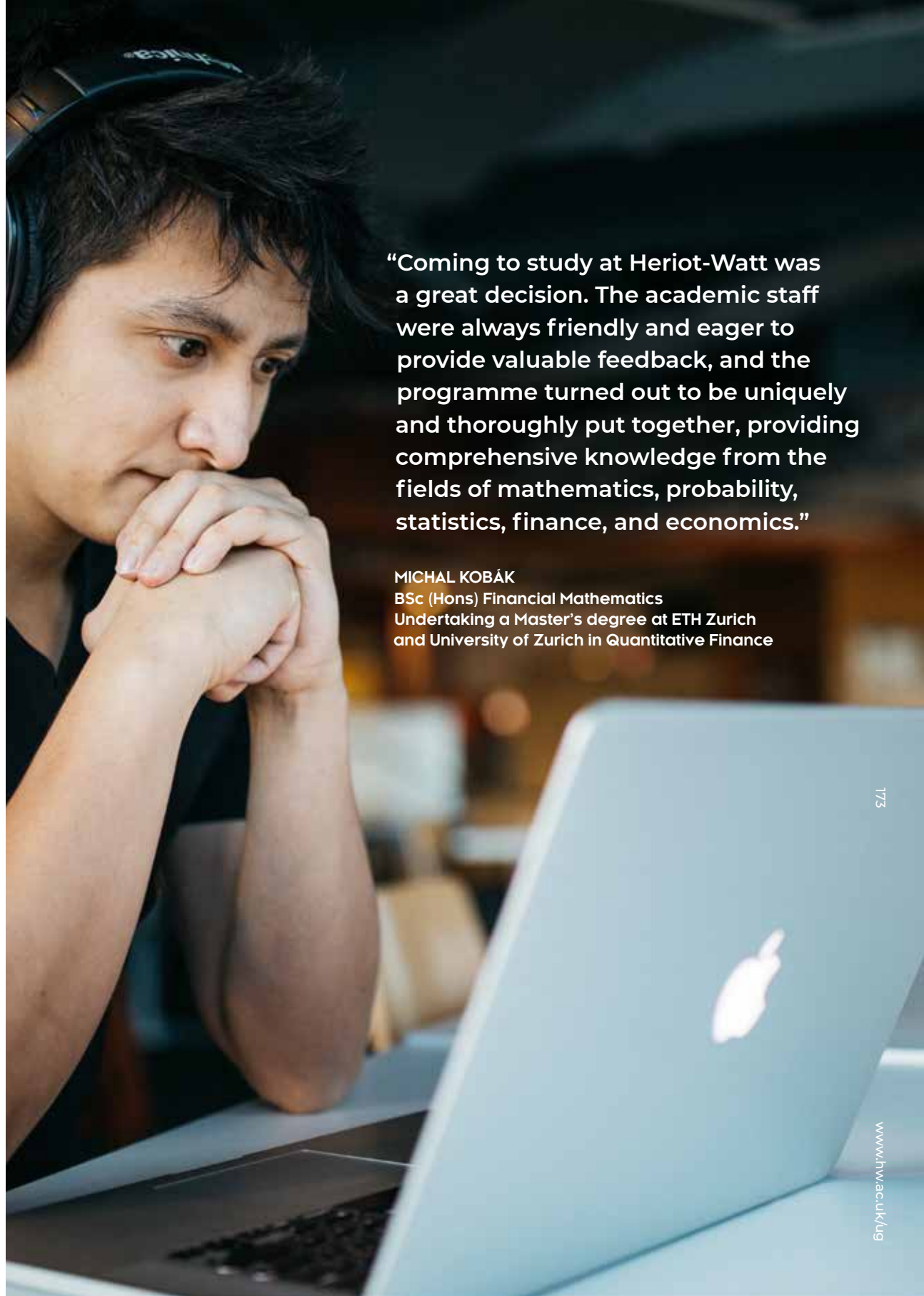
PROGRAMME FLEXIBILITY

You may transfer between degrees up to the end of Level 2. Some Mathematics degrees also have similar content, allowing transfer to these as well.

PRIZES AND SCHOLARSHIPS

Currently, prizes are provided by Longevitas, the IMA, Scottish Widows, Standard Life, and the Worshipful Company of Actuaries. The University offers limited scholarships to applicants. Please visit the scholarship website for full details and conditions.

www.hw.ac.uk/scholarships



"Coming to study at Heriot-Watt was a great decision. The academic staff were always friendly and eager to provide valuable feedback, and the programme turned out to be uniquely and thoroughly put together, providing comprehensive knowledge from the fields of mathematics, probability, statistics, finance, and economics."

MICHAL KOBÁK
BSc (Hons) Financial Mathematics
Undertaking a Master's degree at ETH Zurich and University of Zurich in Quantitative Finance

BSc (Hons)

Actuarial Science

UCAS code **GG13**
Duration **4 years BSc (Hons)**
or 3 years BSc (Hons)

THE PROGRAMME

If you enjoy mathematics and are looking for a degree that will prepare you for a rewarding career, both intellectually and financially, then this might be the programme for you. It is one of only a few to be accredited by the UK Institute and Faculty of Actuaries (IFoA). Exemptions from professional IFoA examinations may be obtained by good performance in relevant courses, giving prospective actuaries an advantage over those on other mathematics programmes. At the same time it opens doors to the wide range of careers available to mathematics graduates. Opportunities are available for industrial placements for UK and EU students or the option is open to all students to study abroad for a year. Suitably qualified applicants can start in Level 2.

LEVEL 1

Introduction to Statistical Science; Calculus; Introduction to University Mathematics; Professional Development Planning; Finance; Economics; and practical work.

LEVEL 2

Algorithmic and Scientific Programming; Probability and Statistics; Actuarial and Financial Mathematics; Linear Algebra; Real Analysis; Multivariate Calculus; Numerical Analysis; and practical work.

LEVEL 3

Survival Models; Portfolio Theory; Life Insurance Mathematics; Statistical Modelling; Stochastic Processes; and project work.

LEVEL 4

Risk Theory; Financial Risk Management; Pensions; Life Office Practice; Time Series; Continuous-Time Finance; Bayesian Inference; and other statistical topics.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Actuarial Science and Diploma in Industrial Training

UCAS code **5G5B**
Duration **5 years BSc (Hons) and Diploma**
or 4 years BSc (Hons) and Diploma

THE PROGRAMME

This programme combines the rigorous studies of the BSc (Hons) Actuarial Science with a year-long work placement in an organisation such as a pensions consultancy or a life insurance company. Exemptions from professional IFoA examinations may be obtained by good performance in relevant courses. The Diploma in Industrial Training is gained through successful completion of this work placement. The work placement helps you to develop specific work-related skills, giving you the opportunity to apply and build upon the theory you learn in your studies. It allows you to take on real responsibilities, enhance your interpersonal skills through teamwork and communication and experience workplace culture. The Diploma is available to all students, including those from overseas, as it does not require a work visa. Organisations that students have secured placements with include Prudential, Aegon, and Mercer.

LEVEL 1

Introduction to Statistical Science; Calculus; Introduction to University Mathematics; Professional Development Planning; Finance; Economics; and practical work.

LEVEL 2

Algorithmic and Scientific Programming; Probability and Statistics; Actuarial and Financial Mathematics; Linear Algebra; Real Analysis; Multivariate Calculus; Numerical Analysis; and practical work.

LEVEL 3

Survival Models; Portfolio Theory; Life Insurance Mathematics; Statistical Modelling; Stochastic Processes; and project work.

LEVEL 4

Twelve-month work placement.

LEVEL 5

Risk Theory; Financial Risk Management; Pensions; Life Office Practice; Time Series; Bayesian Inference; and other statistical topics.

BSc (Hons)

Financial Mathematics

UCAS code **GGC3**
Duration **4 years BSc (Hons)**
or 3 years BSc (Hons)

THE PROGRAMME

If you are looking for a career in the world of finance and love mathematical challenges, then Financial Mathematics is the degree for you. Just as civil engineering deals with the design, construction and maintenance of buildings and roads, financial mathematics is concerned with the design, construction and maintenance of financial products. It is well known that careers in financial mathematics offer some of the best salaries of all professions and graduates working in this area thrive on being offered many interesting challenges on a day-to-day basis.

LEVEL 1

Introduction to Statistical Science; Calculus; Introduction to University Mathematics; Professional Development Planning; Finance; Economics; and practical work.

LEVEL 2

Algorithmic and Scientific Programming; Probability and Statistics; Actuarial and Financial Mathematics; Linear Algebra; Real Analysis; Multivariate Calculus; Numerical Analysis; and practical work.

LEVEL 3

Portfolio Theory and Asset Models; Derivative Markets and Discrete-Time Finance; Stochastic Processes; Statistics for Social Science; Statistical Modelling; Vector Analysis; Numerical Analysis; Bayesian Inference; and Computational Methods.

LEVEL 4

Advanced Derivative Pricing; Continuous-Time Finance; and options from a wide choice, including Statistical Machine Learning, Optimisation, Risk Theory, and Time Series.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Statistical Data Science

UCAS code **G301**
Duration **4 years BSc (Hons)**
or 3 years BSc (Hons)

THE PROGRAMME

Statistical Data Science is at the core of modern data analytics that turn data into intelligence to inform decision-making and solve challenging problems. Applications range from economics and medicine, to social and environmental sciences. This degree covers theoretical and applied elements of modern statistics, and provides training and practical experience in modelling, analysing and interpreting real data required in the economy, industry and research. The early years of the degree cover basic Mathematics, Probability, and Statistics. The final years focus on advanced specialist topics in Statistical Modelling, Data Science, Machine Learning, Probability, and Stochastic Processes.

LEVEL 1

Introduction to Statistical Science; Calculus; Introduction to University Mathematics; Professional Development Planning; Finance; Economics; and practical work.

LEVEL 2

Algorithmic and Scientific Programming; Probability and Statistics; Actuarial and Financial Mathematics; Linear Algebra; Real Analysis; Multivariate Calculus; Numerical Analysis; and practical work.

LEVEL 3

Stochastic Processes; Statistics for Social Science; Statistical Modelling; Vector Analysis; Bayesian Inference and Computational Methods; Survival Models; Portfolio Theory and Asset Models; and Derivative Markets and Discrete-Time Finance.

LEVEL 4

Optimisation; Statistical Machine Learning; Time Series; and options from a wide choice, including Risk Theory, Statistical Computing, Mathematical Biology, and Continuous-Time Finance.

BSc (Hons) NEW

Data Sciences

UCAS code G3DS
Duration 4 years BSc (Hons)
or 3 years BSc (Hons)

THE PROGRAMME

This is a new, exciting interdisciplinary programme that provides broad foundations in data science, involving all three main specialisms of the School - mathematics, statistics and computer science. Data science is at the core of modern data analytics and engineering, turning data into intelligence and information for decision-making and for solving complex, multi-faceted problems. It is a young discipline, and demand for expertise is growing very quickly as the availability of data sets, and the need to interpret and use them, increases. This programme will provide you with the mathematical foundations, the statistical techniques and the computational and programming skills you need to pursue a career in any aspect of data science, or to further specialise at postgraduate level.

The first three years of the programme provide the necessary core skills and knowledge in mathematics, computer sciences, probability, statistics and machine learning. The fourth year offers the option to focus on advanced machine learning, statistical algorithms and applications, data engineering, mathematical aspects of programme data structures, or applications to artificial intelligence.

LEVEL 1

Calculus (A and B), Software development (1 and 2), Discrete Mathematics, Introduction to Statistical Science, Praxis, plus one of Introduction to university Maths, or Logic and Proof.

LEVEL 2

Calculus and Real Analysis, Linear Algebra, Probability and Statistics (A and B), Data Structures and Algorithms, Database Management Systems, Software Development 3, and Numerical Analysis A.

LEVEL 3

Statistical Machine Learning, Artificial Intelligence and Intelligent Agents, Software Engineering, Advanced Statistical Methods, Bayesian Inference and Computational Methods, Group project plus two of Ordinary Differential Equations, Numerical Analysis B, Data Visualisation Analytics, or Statistical Models B.

LEVEL 4

Optimisation, Data Engineering Pipelines, Big Data Management, Advanced Machine Learning, plus a year-long dissertation and two optional courses from a pool of twelve courses in Numerical Analysis, Stochastic Processes, Natural Language Processing with Machine Learning, Data Visualisation, Advanced Statistical and Financial Mathematics options, or Mathematical Biology.

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

Our programmes have the highest levels of accreditations by the British Computer Society (BCS) and the Engineering Council

Heriot-Watt boasts ground-breaking facilities including brand new Games Design and VR studios and the national Robotarium

Study Abroad

Study in Dubai

Study in Malaysia

BUILD THE FUTURE

Be FutureMade in Computer Science

BSc (Hons) Computer Science
BSc (Hons) Computer Science and Diploma in Industrial Training
BSc (Hons) Computer Systems
BSc (Hons) Computer Systems and Diploma in Industrial Training
BSc (Hons) Information Systems
BSc (Hons) Information Systems and Diploma in Industrial Training
MEng Software Engineering

www.hw.ac.uk/ug

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-computer

Be FutureMade in

Computer Science

Develop the technology for twenty-first-century life. Our Computer Science programme is aimed at developing specialists who can construct the complex software tools others use to build everything from apps to systems. In contrast, Information Systems is a degree for those who are interested in how people, organisations and technology interact in a modern society. The Computer Systems programme combines strong technical skills with a focus on organising and managing systems. Our MEng in Software Engineering includes a significant placement in industry where technical and systems skills are integrated.

YOUR CAREER PROSPECTS

We develop highly employable graduates with excellent prospects in industry, commerce and the public sector. The growth in network services on computers in the office, at home, and on mobile devices has increased the demand for experts who can design, implement and manage richly interactive computational systems for non-specialist users.

Information Systems graduates are in demand from a variety of organisations from finance and engineering to retail, IT and software houses. Graduates may go on to work in project management and analyst roles, IT graduate schemes, graphic design and technical consultancies, locally, regionally and globally.

PROGRAMME FLEXIBILITY

Applicants with appropriate qualifications may transfer to any other undergraduate degree programme in the discipline at the end of Level 1.

PROFESSIONAL RECOGNITION AND EXEMPTIONS

The excellence of our Computer Science, Computer Systems, Information Systems and Software Engineering degrees is certified by the highest levels of accreditations by the British Computer Society (BCS) and the Engineering Council, giving students relevant exemptions in a variety of professional certifications, including CEng and CSci.

INDUSTRIAL PLACEMENTS/WORK EXPERIENCE

Students on the MEng Software Engineering programme will spend up to six months in industry between Levels 4 and 5. Students on a programme combined with a Diploma in Industrial Training will spend 12 months in industry in Level 4.

"The opportunity to do language generalisation followed by a specialist route in my third and fourth years really appealed to me. The degrees are very flexible so you are able to completely tailor things to your interests. I found the lecturers and staff incredibly helpful and supportive, and personal tutors are always there for one-on-one help when needed."

HAZEL BROOKES
BSc Computer Science

BSc (Hons)

Computer Science

UCAS code G400/G700/G440/G600/G450/G4CS
Duration 4 years BSc (Hons) or 3 years BSc (Hons)

THE PROGRAMME

Our BSc Computer Science Honours degree is oriented to constructing robust and usable systems. This programme aims to give a well-integrated balance of theoretical underpinnings and practical experience, strongly informed by the research expertise of our academic staff. We aim to teach people not just how to deploy cutting-edge tools and techniques, but how to build the next generation of software tools that other systems developers will use.

LEVEL 1

You will study two courses on programming in Java, Introduction to Interaction Design, Web Design and Databases, Computer Systems, Software Development, Discrete Mathematics, and Logic and Proof.

LEVEL 2

You will study User Centred Experimental Design, Web Programming, Data Structures and Algorithms, Programming Languages, Software Design, Database Management Systems, and Hardware-Software Interface.

LEVEL 3

You will study Software Engineering, Data Communications and Networking, Artificial Intelligence and Intelligent Agents, Operating Systems and Concurrency, Language Processors, Professional Development, Theory of Computing, and Programming Language Semantics. You will also take part in a major group project with an industrial orientation.

LEVEL 4

You will study five advanced courses drawn from a wide range of our research and technical specialisms. You will also conduct a substantial individual project, on a topic of your choice or suggested by an academic, lasting the whole year. You will have the opportunity to specialise in Artificial Intelligence, Games Programming, Software Engineering, Data Science or Cyber Security.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Computer Science and Diploma in Industrial Training

UCAS code Q2P3
Duration 5 years BSc (Hons) and Diploma or 4 years BSc (Hons) and Diploma

THE PROGRAMME

This programme combines the rigorous studies of the BSc (Hons) Computer Science with a year of work placement in Level 4. Good performance means 12 months' experience of working in an organisation in the computing sector. The Diploma in Industrial Training helps you to develop specific work-related skills, giving you the opportunity to apply and build upon the theory you've learned. This programme aims to give a well-integrated balance of theoretical underpinnings and practical experience.

LEVEL 1

You will study two courses on programming in Java, Introduction to Interaction Design, Web Design and Databases, Computer Systems, Software Development, Discrete Mathematics, and Logic and Proof.

LEVEL 2

You will study User Centred Experimental Design, Web Programming, Data Structures and Algorithms, Programming Languages, Software Design, Database Management Systems, and Hardware-Software Interface.

LEVEL 3

You will study Software Engineering, Data Communications and Networking, Artificial Intelligence and Intelligent Agents, Operating Systems and Concurrency, Language Semantics, and take part in a major group project.

LEVEL 4

Twelve-month work placement.

LEVEL 5

You will study five advanced courses drawn from a wide range of our research and technical specialisms and conduct a substantial individual project lasting the whole year. You will have the opportunity to specialise in Artificial Intelligence, Games Programming, Software Engineering, or Data Science.

BSc (Hons)

Computer Systems

UCAS code I100/5Y6J
Duration 4 years BSc (Hons) or 3 years BSc (Hons)

THE PROGRAMME

Our BSc Computer Systems degree is well suited for students looking for a sound foundation in contemporary computing, complemented by the professional skills needed to design, deploy and manage robust systems in diverse organisations, from SMEs to large corporations.

LEVEL 1

You will study two courses on programming in Java, Introduction to Interaction Design, Web Design and Databases, Computer Systems, Praxis, and two electives of your choice.

LEVEL 2

You will study User Centred Experimental Design, Web Programming, Data Structures and Algorithms, Programming Languages, Software Design, and Database Management Systems, and two electives of your choice.

LEVEL 3

You will study Software Engineering, Artificial Intelligence and Intelligent Agents, Data Communications and Networking, Knowledge Management, Language Processors, Operating Systems and Concurrency, Professional Development, and Sociotechnical and Soft Systems.

LEVEL 4

You will study five advanced courses drawn from a wide range of our research and technical specialisms. You will also conduct a substantial individual project, on a topic of your choice or suggested by an academic, lasting the whole year. You will have the opportunity to specialise in Games Programming. As Computer Systems is also taught at our Dubai Campus, you will have the opportunity to transfer there for one semester or for one academic year, subject to satisfactory academic progress.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Computer Systems and Diploma in Industrial Training

UCAS code Q2P4
Duration 5 years BSc (Hons) and Diploma or 4 years BSc (Hons) and Diploma

THE PROGRAMME

This programme combines the rigorous studies of the BSc (Hons) Computer Systems with a year-long work placement in the computing sector. The Diploma in Industrial Training helps you to develop specific work-related skills, giving you the opportunity to apply and build upon the theory you've learned. This programme is well suited for students looking for a sound foundation in contemporary computing, complemented by the professional skills needed to design, deploy and manage robust systems in diverse organisations. The Diploma is available to all students, including those from overseas.

LEVEL 1

You will study two courses on programming in Java, Introduction to Interaction Design, Web Design and Databases, Computer Systems, Praxis, and two electives of your choice.

LEVEL 2

You will study User Centred Experimental Design, Web Programming, Data Structures and Algorithms, Programming Languages, Software Design, and Database Management Systems, and two electives of your choice.

LEVEL 3

You will study Software Engineering, Artificial Intelligence and Intelligent Agents, Data Communications and Networking, Knowledge Management, Language Processors, Operating Systems and Concurrency, Professional Development, and Sociotechnical and Soft Systems.

LEVEL 4

Twelve-month work placement.

LEVEL 5

You will study five advanced courses drawn from a wide range of our research and technical specialisms. You will also conduct a substantial individual project, lasting the whole year. You will have the opportunity to specialise in Games Programming.

BSc (Hons)

Information Systems

UCAS code **G560/G590/G501/GN52**
Duration **4 years BSc (Hons)**
or 3 years BSc (Hons)

THE PROGRAMME

Our BSc Information Systems degree focuses on making sure that computer systems really are usable. There is a strong emphasis on system design and evaluation techniques – especially for interactive systems – and on the management skills necessary to plan and organise the large-scale information resources that drive modern organisations.

LEVEL 1

You will study introductory programming in Java, Introduction to Interaction Design, Web Design and Databases, Computer Systems, Enterprise and its Business Environment, Technology in Society, and an elective of your choice.

LEVEL 2

You will study User Centred Experimental Design, Software Design, and Database Management Systems, complemented by Fundamentals of Marketing, Management in a Global Context, Project Management, and Operations Management. You will also take part in a creative design project.

LEVEL 3

You will study Knowledge Management, Critical Thinking, Human Resource Management, Sociotechnical and Soft Systems, Organisational Behaviour, Marketing Communications, Software Engineering, and Professional Development. You will also take part in a major group project with an industrial orientation.

LEVEL 4

You will study five advanced courses drawn from a wide range of our research and technical specialisms. You will also conduct a substantial individual project, on a topic of your choice or suggested by an academic, lasting the whole year. You will have the opportunity to specialise in Interaction Design, Internet Systems, or Management.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Information Systems and Diploma in Industrial Training

UCAS code **Q3R3**
Duration **5 years BSc (Hons) and Diploma**
or 4 years BSc (Hons) and Diploma

THE PROGRAMME

This programme combines the rigorous studies of the BSc (Hons) Information Systems with a year of work placement in Level 4. Good performance means 12 months' experience of working in an organisation in the computing sector. There is a strong focus on system design and evaluation techniques, especially for interactive systems, complemented by the management skills needed to plan and organise the large-scale information resources that drive modern organisations. The Diploma is available to all students, including those from overseas, as it does not require a work visa.

LEVEL 1

You will study introductory programming in Java, Introduction to Interaction Design, Web Design and Databases, Computer Systems, Enterprise and its Business Environment, Technology in Society, and an elective of your choice.

LEVEL 2

You will study User Centred Experimental Design, Software Design and Database Management Systems, plus Fundamentals of Marketing, Management in a Global Context, Project Management, and Operations Management. You will also take part in a creative design project.

LEVEL 3

You will study Knowledge Management, Critical Thinking, Human Resource Management, Sociotechnical and Soft Systems, Organisational Behaviour, Marketing Communications, and Software Engineering. You will also take part in a major group project with an industrial orientation.

LEVEL 4

Twelve-month work placement.

LEVEL 5

You will study five advanced courses drawn from a wide range of our research and technical specialisms. You will also conduct a substantial individual project lasting the whole year.

MEng

Software Engineering

UCAS code **G601**
Duration **5 years MEng**
or 4 years MEng

THE PROGRAMME

The MEng Software Engineering degree is an integrated Masters programme, which augments the first three Levels of the BSc Computer Science programme with the professional skills necessary for constructing robust, secure systems. Students undertake a mandatory work placement, typically lasting six months, following completion of Level 4. The work placement is paid and you will receive support to prepare your CV and for the interview process. Organisations that recent students have been placed with include Skyscanner, Leonardo, Cadence, BlackRock, and Satalia. Many of our students go on to secure an offer of employment from their placement employer.

LEVEL 1

You will study three courses on programming in Java, Interactive Systems, Web Design and Databases, Computer Systems, and Logic and Proof.

LEVEL 2

You will study Interaction Design, Web Programming, Data Structures and Algorithms, Programming Languages, Software Design, Database Management Systems, Hardware-Software Interface, and Discrete Mathematics.

LEVEL 3

You will study Software Engineering, Data Communications and Networking, Artificial Intelligence and Intelligent Agents, Operating Systems and Concurrency, Language Processors, Professional Development, Theory of Computing, and Programming Language Semantics. You will also take part in a major group project with an industrial orientation.

LEVEL 4

As well as advanced topics, you will also undertake professional and industrial studies courses. A major individual project will also be carried out.

LEVEL 5

Starting at the end of Level 4, you will undertake an industrial placement. You will also take further advanced topics in Software Engineering.

See pages 230-231 and our website for entry requirements.

WHY HERIOT-WATT?

The Complete University Guide 2020 and The Times / The Sunday Times Good University Guide 2020 rank us **3rd in Scotland for Mathematics**

Employment prospects are excellent in industry, commerce, finance, the civil service, scientific research and all levels of teaching

THE TIMES
THE SUNDAY TIMES

Complete University Guide

Study Abroad

Study in Dubai

Study in Malaysia

SOLVE TOMORROW'S PROBLEMS TODAY

Be FutureMade in Mathematics

BSc (Hons) Mathematics
MMath Mathematics
BSc (Hons) Mathematical, Statistical and Actuarial Sciences
BSc (Hons) Mathematical, Statistical and Actuarial Sciences and Diploma in Industrial Training
BSc (Hons) Mathematics with Computer Science
BSc (Hons) Mathematics with Finance
BSc (Hons) Mathematics with Finance and Diploma in Industrial Training
BSc (Hons) Mathematics with French / German / Spanish
BSc (Hons) Mathematics with Statistics
BSc (Hons) Mathematics with Physics

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-mathematics

Be FutureMade in
Mathematics

Mathematics is a wide-ranging and important subject based around a particular way of thinking about the world. Studying a mathematics degree will offer opportunities to apply your skills widely in the world of work, as mathematicians' efforts underpin the latest developments in applied science, engineering and business operations.

We have built a strong emphasis on transferable skills training throughout our programmes, including a careers course, a project preparation skills course and a dissertation-based project. This emphasis contributes to our high graduate employment rates with internationally-leading companies.

We offer a range of programmes in a flexible modular form that allow you to combine mathematics with subjects of specific interest, and for students who have decided on their interests from the outset, a wide selection of joint degrees is available.

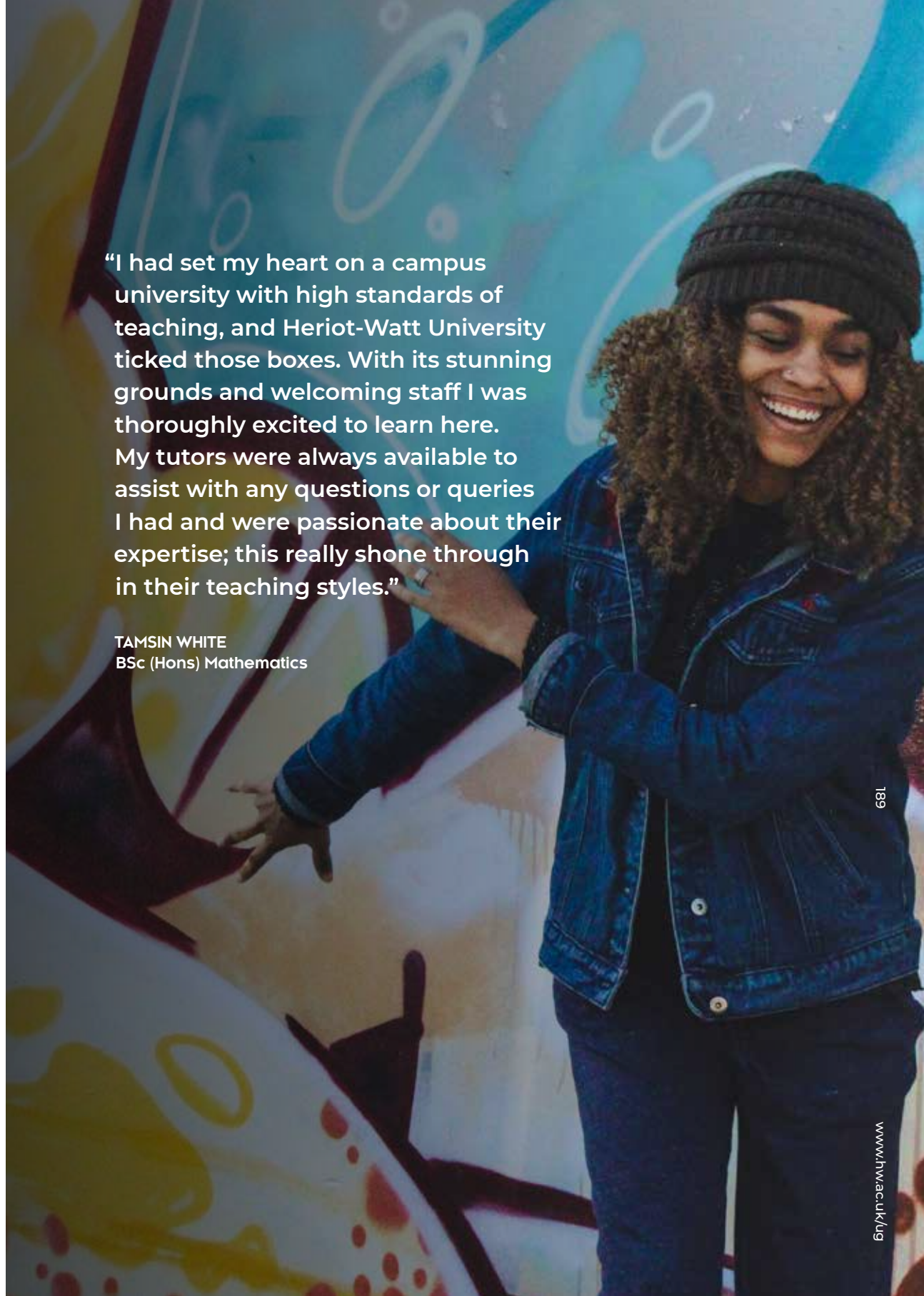
The School of Mathematical and Computer Sciences has an excellent reputation and is highly rated for the quality of its research and teaching. It has multiple links to international industry and offers excellent pathways into the many fascinating careers open to mathematics graduates.

YOUR CAREER PROSPECTS

Graduates in mathematics will find their problem-solving and numerical skills highly sought after across a wide range of careers. Prospects are excellent in industry, commerce, finance, the civil service, scientific research establishments, and all levels of teaching. As a mathematics graduate you not only have specific mathematics skills, but also a more general training in the key skills of creative problem-solving, communication and logical thinking that are sought and highly valued by many employers.

PROFESSIONAL RECOGNITION AND EXEMPTIONS

Exemptions from professional actuarial examinations of the Institute and Faculty of Actuaries (IFoA) are available from the Mathematical, Statistical and Actuarial Sciences degree.



"I had set my heart on a campus university with high standards of teaching, and Heriot-Watt University ticked those boxes. With its stunning grounds and welcoming staff I was thoroughly excited to learn here. My tutors were always available to assist with any questions or queries I had and were passionate about their expertise; this really shone through in their teaching styles."

TAMSIN WHITE
BSc (Hons) Mathematics

BSc (Hons)

Mathematics

UCAS code **G100**
Duration **4 years BSc (Hons)**
or 3 years BSc (Hons)

THE PROGRAMME

Mathematics is a fundamental way of thinking about the world and this programme equips budding mathematicians with the technical skills necessary to carve out a successful career. The programme covers basic knowledge and recent developments in research and develops advanced mathematical and statistical skills together with an understanding of their application to the formulation and solution of real-world problems. In essence, the programme combines specialist mathematical knowledge with crucial transferable skills.

LEVEL 1

The core material includes Algebra, Geometry, Combinatorics, Calculus, and Problem-Solving Skills. Level 1 has been carefully designed to ease the transition from school to university. You will take the above subjects together with an elective course in each semester.

LEVEL 2

Level 1 work is consolidated and extended in both Pure and Applied Mathematics. A choice between optional courses in Computer Science, and Probability and Statistics is available.

LEVEL 3

A combination of core and optional courses develops mathematical skills and knowledge and introduces the ideas used at the forefront of modern mathematics. Subjects include: Analysis, Abstract Algebra, Discrete Mathematics, Numerical Analysis, and Ordinary Differential Equations. A communication skills and careers course offers useful transferable skills.

LEVEL 4

Further exploration and specialisation is possible with options related to our research expertise including Functional Analysis, Optimisation, Differential Geometry, Mathematical Biology, and a choice of other courses in both Pure and Applied Mathematics. A final year project also builds on the Level 3 skills course.

See pages 230-231 and our website for entry requirements.

MMath

Mathematics

UCAS code **G101**
Duration **5 years MMath**
or 4 years MMath

THE PROGRAMME

A graduate from the MMath degree will be able to communicate to specialist and non-specialist audiences and unambiguously demonstrate the ability to work professionally with a considerable degree of autonomy. They will also be well equipped to continue independent study in mathematics (e.g. PhD study), should they wish to do so.

LEVEL 1

The core material includes Algebra, Geometry, Combinatorics, Calculus, and Problem-Solving Skills. Level 1 has been carefully designed to ease the transition from school to university. You will take the above subjects together with an elective in each semester.

LEVEL 2

Level 1 work is consolidated and extended in both Pure and Applied Mathematics. A choice between optional courses in Computer Science, and Probability and Statistics is available.

LEVEL 3

A combination of core and optional courses develops mathematical skills and knowledge and introduces the ideas used at the forefront of modern mathematics. Subjects include: Analysis, Abstract Algebra, Discrete Mathematics, Numerical Analysis, and Ordinary Differential Equations. A communication skills and careers course offers useful transferable skills.

LEVEL 4

Further specialisation is possible with options related to our research expertise including Functional Analysis, Optimisation, Differential Geometry, Mathematical Biology, and courses in both Pure and Applied Mathematics. An extended project builds on Level 3 skills.

LEVEL 5

This level will provide advanced knowledge and understanding and develop a critical awareness of current problems in mathematics. Courses on our research specialities such as Mathematical Biology and Numerical Analysis will be available. A dissertation-based project is also undertaken.

BSc (Hons)

Mathematical, Statistical and Actuarial Sciences

UCAS code **GGD3**
Duration **4 years BSc (Hons)**
or 3 years BSc (Hons)

THE PROGRAMME

This programme combines material taught within the Mathematics and Actuarial Science programmes into a unique programme that includes specialist actuarial and statistical skills as well as a wide-ranging approach to other areas of advanced mathematics. Levels 3 and 4 offer a range of options allowing students to choose the combination which best reflects their interests. Exemptions from professional actuarial examinations may be obtained by good performance in relevant courses.

LEVEL 1

You will take courses in Calculus, Algebra, Geometry, and Combinatorics which continue the development of these subjects already studied in school while also taking courses on Statistics, Economics, and Finance.

LEVEL 2

You will continue your study of Calculus, Algebra, and Statistics, taking courses in Multivariable Calculus and Real Analysis, Linear Algebra, and Probability and Statistics. In addition you will start the study of Actuarial and Financial Mathematics, and Numerical Analysis.

LEVEL 3

All students must study Abstract Algebra, Ordinary Differential Equations, and Statistical Modelling. You will also study a wide range of options including Life Insurance Mathematics, Stochastic Processes, Survival Models, Vector Analysis, Complex Analysis, Numerical Analysis, and other topics in Pure and Applied Mathematics.

LEVEL 4

Students can choose from Life Insurance Mathematics, Pensions, Life Office Practice, Statistics for Social Science, Bayesian Inference, Risk Theory, Time Series, Optimisation, Partial Differential Equations, Mathematical Biology, Functional Analysis, Geometry, Numerical Analysis, and other topics in Pure and Applied Mathematics.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Mathematical, Statistical and Actuarial Sciences and Diploma in Industrial Training

UCAS code **G3N3**
Duration **5 years BSc (Hons) and Diploma**
or 4 years BSc (Hons) and Diploma

THE PROGRAMME

This programme combines the rigorous studies of the BSc (Hons) in Mathematical, Statistical and Actuarial Sciences with a year-long work placement in Level 4. The Diploma is available to all students, including those from overseas, as it does not require a work visa. If you are registered on the course and are unable to find a suitable work placement before the end of Level 3 you can transfer to the BSc (Hons) in Mathematics with Finance degree.

LEVEL 1

You will take courses in Calculus, Algebra, Geometry, and Combinatorics which continue the development of these subjects already studied in school while also taking courses in Statistics, Economics, and Finance.

LEVEL 2

You will continue your study of Calculus, Algebra, and Statistics, taking courses in Multivariable Calculus and Real Analysis, Linear Algebra, and Probability and Statistics. Additionally, you will start to study Actuarial and Financial Mathematics, and Numerical Analysis.

LEVEL 3

Courses cover Abstract Algebra, Ordinary Differential Equations, and Statistical Modelling. You may study a wide range of options including Life Insurance Mathematics, Stochastic Processes, Survival Models, Vector Analysis, Complex Analysis, Numerical Analysis, and other topics in Pure and Applied Mathematics.

LEVEL 4

Twelve-month work placement.

LEVEL 5

All courses are optional and include Life Insurance Mathematics, Pension Funds, Life Office Practice, Bayesian Inference, Risk Theory, Optimisation, Partial Differential Equations, Mathematical Biology, Functional Analysis, Numerical Analysis, and other topics in Pure and Applied Mathematics.

BSc (Hons)

Mathematics with Computer Science

UCAS code **G1G4**
Duration **4 years BSc (Hons)**

THE PROGRAMME

Fundamental ideas in Pure and Applied Mathematics are developed together with key concepts in computer science. In addition to expertise in both subjects, the programme fosters the intellectual skills of analytical reasoning, systematic problem-solving and the development and clear communication of ideas. Students studying Mathematics with Computer Science study roughly 75% mathematics and 25% computer science.

LEVEL 1

The mathematics content is identical to that of the BSc in Mathematics. Two courses in Software Development in Computer Science introduce key ideas in programming.

LEVEL 2

Work in mathematics extends in both Applied and Pure Mathematics. Computer Science, Software Design and Programming Languages are core courses.

LEVEL 3

Topics develop mathematical skills and knowledge, and introduce ideas used at the forefront of modern mathematics. The computer science material includes Theory of Computing, and Programming Language Semantics.

LEVEL 4

Further exploration and specialisation in Advanced Mathematics is possible with options related to our research expertise, together with computer science options in Rigorous Methods for Software Engineering, and Artificial Intelligence and Intelligent Agents. Students will complete a mathematical project.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Mathematics with Finance

UCAS code **G1N3**
Duration **4 years BSc (Hons)**
or 3 years BSc (Hons)

THE PROGRAMME

This popular programme meets the high demand for mathematically-trained graduates who are aware of the operation of international finance, investment and capital markets, and able to combine expertise in these areas. The programme combines courses in mathematics from a foundation level up to the edge of current research with courses in all the key areas of modern finance. Graduates will be able to contribute at the highest level to financial analysis and decision making. As a major financial centre, Edinburgh offers excellent career opportunities.

LEVEL 1

This level has been designed to ease the transition from school to university. You will take mathematics courses in Calculus, Algebra, Geometry, and Combinatorics while also taking courses introducing Statistics and Finance.

LEVEL 2

You will continue your study of Calculus and Algebra, taking courses in Multivariable Calculus and Real Analysis, and Linear Algebra. In addition you will start the study of Financial Mathematics and Numerical Analysis.

LEVEL 3

You will study Abstract Algebra, Ordinary Differential Equations and Complex Analysis. As well as these subjects, you will study International Bond and Currency Markets, Financial Derivatives and have a choice of courses in Pure and Applied Mathematics and Numerical Analysis.

LEVEL 4

You will study Risk Management and Derivatives, and Equity Markets and Fund Management as well as having a wide choice of courses in both Pure and Applied Mathematics.

BSc (Hons)

Mathematics with Finance and Diploma in Industrial Training

UCAS code **G1N4**
Duration **5 years BSc (Hons) and Diploma**
or 4 years BSc (Hons) and Diploma

THE PROGRAMME

This programme combines the rigorous studies of the BSc (Hons) in Mathematics with Finance with a year-long work placement in Level 4. Good performance means 12 months' experience of working in an organisation in the financial sector. The Diploma in Industrial Training is gained through successful completion of this work placement. The work placement helps you to develop specific work-related skills, giving you the opportunity to apply and build upon the theory you learn in your studies. The Diploma is available to all students, including those from overseas, as it does not require a work visa.

LEVEL 1

This level has been designed to ease the transition from school to university. You will take mathematics courses in Calculus, Algebra, Geometry, and Combinatorics while also taking courses introducing Statistics and Finance.

LEVEL 2

You will continue your study of Calculus and Algebra, taking courses in Multivariable Calculus and Real Analysis, and Linear Algebra. In addition you will start the study of Financial Mathematics and Numerical Analysis.

LEVEL 3

You will study Abstract Algebra, Ordinary Differential Equations and Complex Analysis. As well as these subjects, you will study International Bond and Currency Markets, Financial Derivatives and have a choice of courses in Pure and Applied Mathematics and Numerical Analysis.

LEVEL 4

Twelve-month work placement.

LEVEL 5

You will study Risk Management and Derivatives, and Equity Markets and Fund Management, as well as having a wide choice of courses in both Pure and Applied Mathematics.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Mathematics with French / German / Spanish

UCAS code **G1R1/G1R2/G1R4**
Duration **4 years BSc (Hons)**

THE PROGRAMME

This programme provides graduates with advanced mathematical skills and fluency in their chosen language, offering a valuable combination of technical expertise and linguistic excellence. Mathematical and language skills will be enhanced by studying mathematics for a year at one of the foreign partner universities. Languages on offer are French, German and Spanish. Graduates in mathematics and languages are consistently near the top of graduate employment tables, and the coupling of disciplines in this degree programme ensures a highly marketable qualification.

LEVEL 1

This level eases the transition from school to university. You will take courses in Calculus, Algebra, Geometry, Combinatorics, Statistics, Problem-Solving, and the Use of Computer Packages. In your chosen language you will take courses in Translation, Aural Comprehension and writing and spoken courses.

LEVEL 2

You will continue your study of Calculus and Algebra, taking courses in Multivariable Calculus and Real Analysis, and Linear Algebra. You will start the study of Pure and Applied Mathematics and Numerical Analysis. In Language courses you will continue with translation, spoken and written classes in preparation for studying abroad in Level 3.

LEVEL 3

This level is spent studying mathematics at a European university as part of an organised study programme. At the time of publication, students studying Mathematics with French are based in Pau, France. Students studying Mathematics with German are based in Dresden, Germany. Students studying Mathematics with Spanish are based in Granada, Spain.

LEVEL 4

On returning for the final year you will take a selection of advanced courses in Mathematics.

BSc (Hons)

Mathematics with Statistics

UCAS code G1G3
Duration 4 years BSc (Hons)
or 3 years BSc (Hons)

THE PROGRAMME

This programme offers broad-based training in modern Pure and Applied Mathematics, together with a sound knowledge of key areas in contemporary statistics. It allows students to study both mathematics and statistics courses in each Level of the programme. A blend of compulsory and optional courses in mathematics ensures a broad knowledge base, and the statistics course offers additional expertise in data analysis, rational decision-making, and the modelling of random behaviour. The programme develops valuable transferable skills in numeracy, analytical and logical reasoning and problem-solving which lead to a wide variety of possible careers.

LEVEL 1

This level is designed to ease the transition from school to university. You will take courses in Calculus, Algebra, Geometry, and Combinatorics along with an Introduction to Statistics, Problem-Solving, and the use of Computer Packages. You will also choose an elective course.

LEVEL 2

You will continue your study of Calculus, Algebra, and Statistics, taking courses in Multivariable Calculus and Real Analysis, Linear Algebra, and Probability and Statistics. In addition, you will start the study of Pure and Applied Mathematics and Numerical Analysis.

LEVEL 3

You will study Abstract Algebra, Ordinary Differential Equations, Complex Analysis, and Statistical Modelling. In addition you will continue the study of Pure and Applied Mathematics and Numerical Analysis.

LEVEL 4

In Statistics, students study Statistics for Social Science and Time Series, together with some of the mathematics options also offered in the BSc Mathematics degree.

See pages 230-231 and our website for entry requirements.

BSc (Hons)

Mathematics with Physics

UCAS code G1F3
Duration 4 years BSc (Hons)
or 3 years BSc (Hons)

THE PROGRAMME

Mathematics and physics are inextricably linked. The comprehensive grounding in mathematics offered by this programme underpins an exploration of key physics topics, including quantum theory, dynamics and relativity, and solid state physics. While a clear understanding of the subject will be a given, employers will also be looking for the other qualities imparted through this programme, in particular numerical, analytical, and problem-solving skills.

LEVEL 1

This level has been designed to ease the transition from school to university. You will take courses in Calculus, Algebra, Geometry, and Combinatorics which continue the study of these subjects from school, while also taking physics courses on Mechanics and Waves, and Fields and Forces.

LEVEL 2

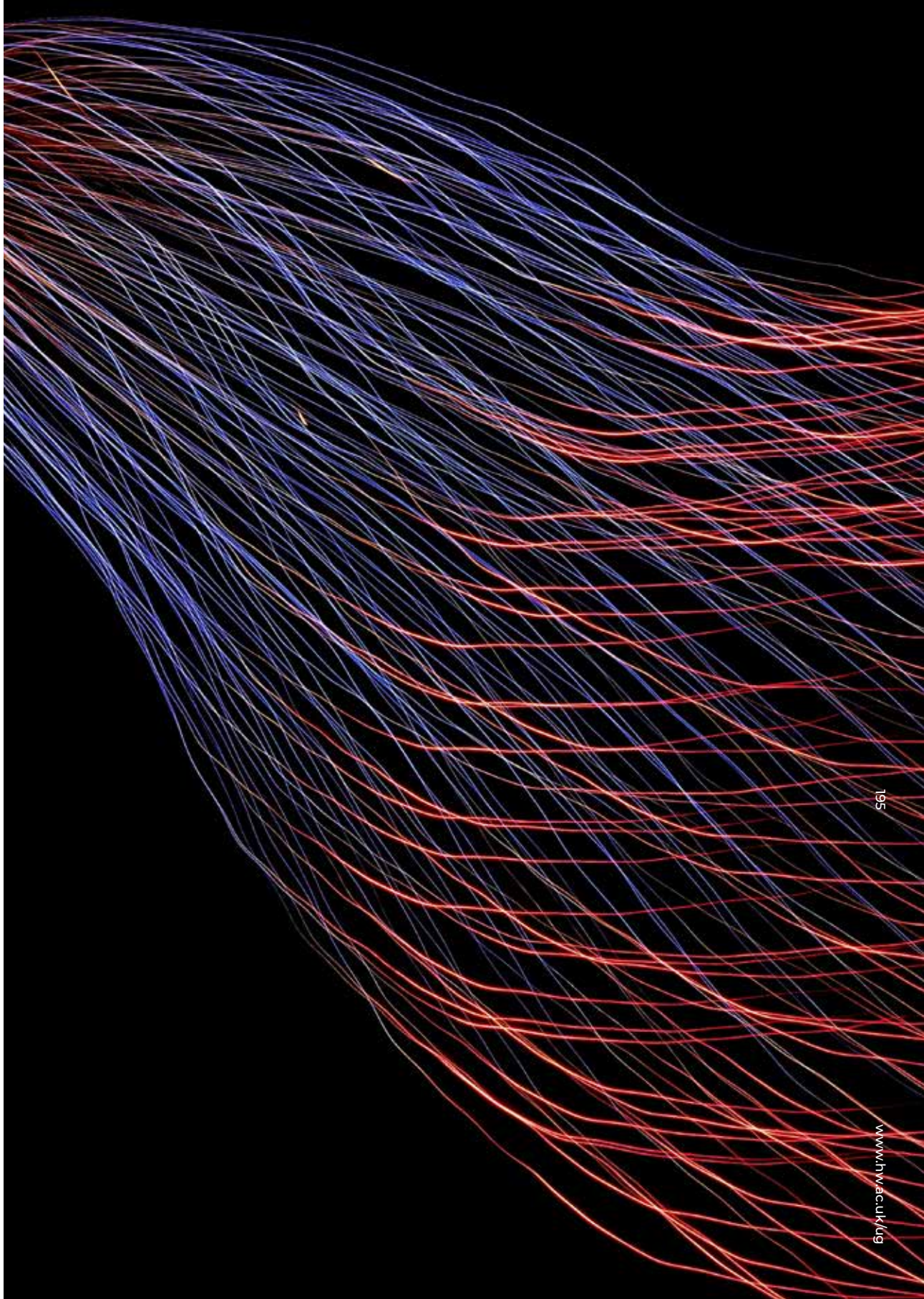
Work in mathematics consolidates and extends Level 1 content, with Applied Mathematics and Numerical Analysis being introduced, alongside physics courses in Photonics, Optics and Thermal Physics, and Properties of Matter.

LEVEL 3

Mathematics courses in Pure and Applied topics are offered along with physics courses in Advanced Quantum Theory and Electromagnetism.

LEVEL 4

Further exploration and specialisation in Advanced Mathematics is possible with options related to our research expertise, together with a selection of topics in Advanced Physics.



WHY HERIOT-WATT?

Our unique range of programmes match the needs of the global design, textile and fashion industries

We offer an extensive range of state-of-the-art facilities and superbly equipped workshops

We have excellent links with the global design industry and an international reputation

Study Abroad

Study in Dubai

Study in Malaysia

DESIGN THE NEXT GENERATION

Be FutureMade in Design

BA (Hons) Design for Textiles (Fashion, Interior, Art)
BA (Hons) Fashion
BA (Hons) Communication Design
BA (Hons) Fashion Branding and Promotion
BSc (Hons) Fashion Technology
BA (Hons) Interior Design

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-textiles

Be FutureMade in

Textiles and Design

Design, textiles and fashion are fundamental in modern society and culture, and their study can lead to exciting and diverse opportunities worldwide. The School offers a unique range of textile, fashion and design programmes to match the needs of the global and increasingly fast-moving design, interior design, textile and fashion industries.

We offer six programmes covering the design of constructed and printed textiles, fashion technology, fashion design, communication design, fashion branding and promotion and interior design. This range of programmes is designed to suit your aspirations and to offer a wide range of career paths, from design practitioner through to marketing, styling, inventing, communicating and buying.

"I am very, very impressed by the facilities that they have in the School of Textiles and Design in the Scottish Borders. I am sure there is no other college or university in the whole of the British Isles that can come anywhere near to this."

VIVIENNE WESTWOOD
Fashion Designer and Honorary Graduate

YOUR CAREER PROSPECTS

We develop graduates who can succeed in the global design and fashion industries at all levels and an extensive range of careers will be open to you. Depending on your choice of programme, you will be equipped with the skills to drive design and fashion development, retail management, marketing, buying and merchandising, product design and garment technology, digital design, communications and branding, photography and videography, or interior design.

Graduates have gone on to work with leading companies such as **Paul Smith, Jasper Conran, Calvin Klein, Anna Sui, Oasis, Marks and Spencer, Next, Cath Kidson, Levi Strauss, John Lewis, Berghaus, Nike, Morton Young and Borland, Niki-Jones** and **AllSaints**.

PROFESSIONAL AWARDS

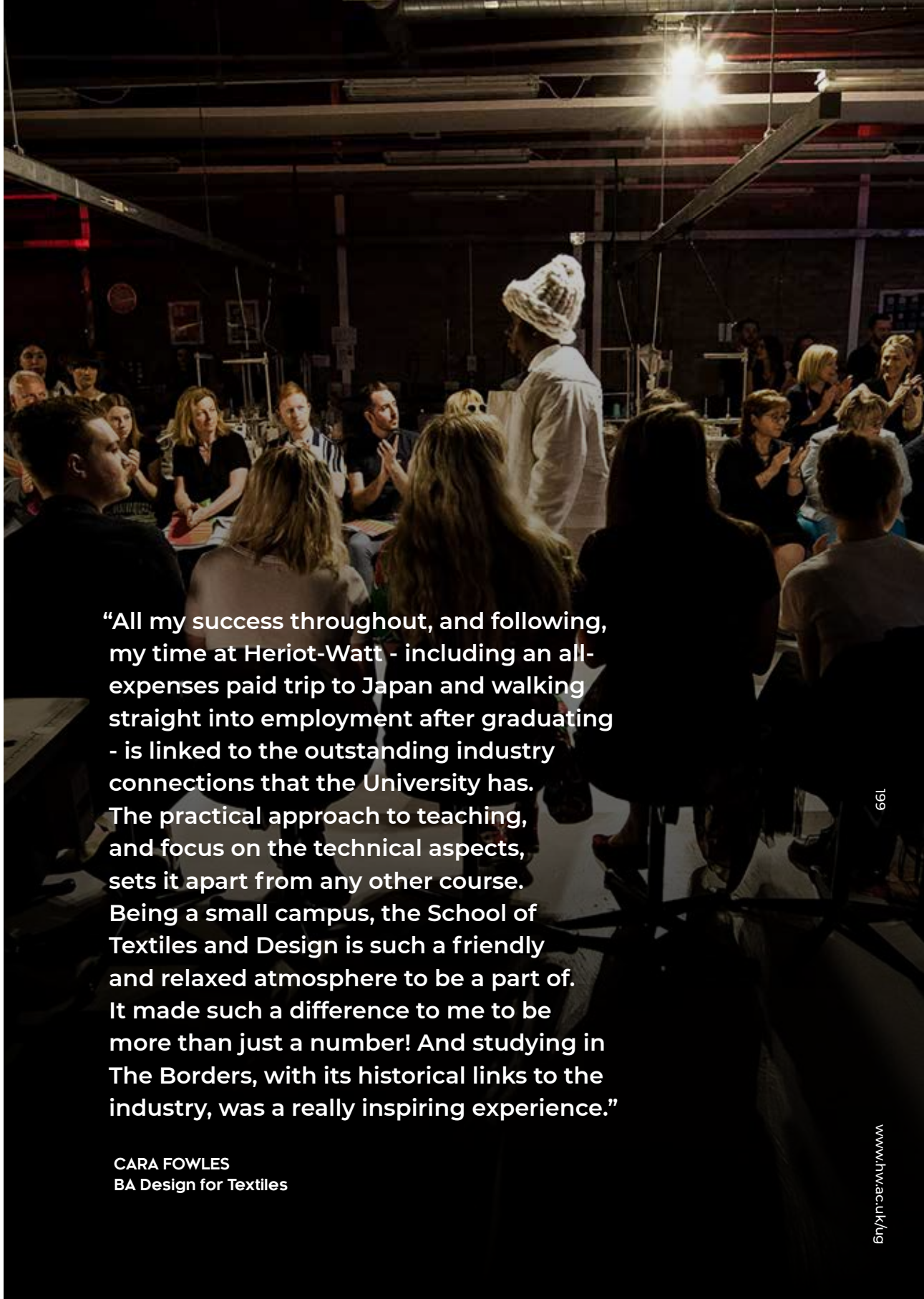
Study and travel awards include: Architects for Health Award, Bernat Klein Award, Worshipful Company of Woolmen; Worshipful Company of Dyers; The Woolmark Company; the Worshipful Company of Weavers; Graduate Fashion Week; New Designers; and Worshipful Company of Framework Knitters.

INDUSTRIAL CONNECTIONS AND LIVE PROJECTS

All students have the opportunity to work with industry, either through placements or live industry projects. Companies that the School has recently collaborated with include **The Blankfaces, Harvey Nichols, Johnstons of Elgin, Old Navy, MYB Textiles, Estee Lauder** and **W L Gore**.

END OF YEAR SHOW

Our final year students display their work in a show that is a celebration of all their hard work throughout their time at the School.



"All my success throughout, and following, my time at Heriot-Watt - including an all-expenses paid trip to Japan and walking straight into employment after graduating - is linked to the outstanding industry connections that the University has. The practical approach to teaching, and focus on the technical aspects, sets it apart from any other course. Being a small campus, the School of Textiles and Design is such a friendly and relaxed atmosphere to be a part of. It made such a difference to me to be more than just a number! And studying in The Borders, with its historical links to the industry, was a really inspiring experience."

CARA FOWLES
BA Design for Textiles

BA (Hons)

Design for Textiles (Fashion, Interior, Art)

UCAS code **W232**
Duration **4 years BA (Hons)**

THE PROGRAMME
This programme is highly creative and designed to balance practice-based exploration with appropriate theory and fabric design methodology with fabric production techniques. The emphasis is fabric-making with a personal handwriting geared towards different practical outcomes, many with the involvement of recognised design studios and companies.

LEVEL 1
Lectures and practical classes will build your knowledge and help you to choose your specialism. Practical projects in printed, woven and knitted textiles and CAD are underpinned by design development projects. You'll explore sampling and mixing techniques to discover a wealth of fabric outcomes.

LEVEL 2
You will continue to work across print, weave and knit textile disciplines and explore a range of fashion and interior textile projects. Study tours will look at some working textile design studios and you'll have the opportunity to attend London Design Week, and visit exhibitions and museums, as a vital part of visual and market research.

LEVEL 3
The emphasis is on getting career ready with a specific focus on developing your portfolio, so you're ready to apply for internships over the summer period. We'll encourage you to enter competitions and work on live briefs from external companies. Student exchanges are available and a foreign study tour to trade fairs in Paris.

LEVEL 4
You will work on a personal project, accompanied by a choice of lecture series that provide in-depth context analysis or marketing strategy development. A number of stand-out students are chosen to exhibit their final collection of designs at the New Designers exhibition.

See pages 230-231 and our website for entry requirements.

BA (Hons)

Fashion

UCAS code **W230**
Duration **4 years BA (Hons)**

THE PROGRAMME
The Fashion programme explores the creative process of fashion design from initial research through to collection creation and production. This pathway explores the range of market sectors from fast fashion through the high street to ready-to-wear both within the UK and relevant to a global context. You will develop a personal fashion handwriting and a broad understanding of the worldwide fashion industry. The personal handwriting will both embed skills and allow personal creative fashion statements appropriate to the chosen market.

LEVEL 1
This Level develops broad core skills and offers opportunities to work alongside students from other programmes, such as Interior Design and Fashion Branding and Promotion. It encourages you to develop individual strengths and skills in analysis, evaluation and contextualisation within the contemporary fashion marketplace. You will also begin to build an understanding of design, production and assembly.

LEVEL 2
Specialise in your chosen pathway and explore pattern design, creation and production in greater depth through traditional and non-traditional fashion methodologies. The courses also cover fashion illustration, fashion design, knitwear design and contextual studies.

LEVEL 3
Work on cross-disciplinary projects and fashion industry collaborations through a combination of independent study, team working and external projects. You'll also have opportunities to work across events and brand promotion, and gain the knowledge to contextualise your work for the real global fashion world.

LEVEL 4
Consolidate your skills and explore your individuality through the initiation, development and completion of a contemporary fashion-led collection accompanied by a strong fashion design portfolio that showcases your talent to employers. Industry partnerships and sponsorships are available.

BA (Hons)

Communication Design

UCAS code **W6CD**
Duration **4 years BA (Hons)**

THE PROGRAMME
This programme is for students who are interested in the 'medium makes the message' in our modern world. You will explore a variety of digital media and how this can be applied in industry. The skills you will learn include entrepreneurship, research and sustainability and provide a pathway for a successful career in a variety of design and media related fields.

LEVEL 1
This level focuses on initial design and visualisation skills equipping students with the fundamentals in photography, visual development, design thinking, and an introduction to illustration.

LEVEL 2
You will explore specialist topics such as typography, videography, and advertising along with courses in creative writing, professional practice, and graphics.

LEVEL 3
This level focuses on developing specialist knowledge in design management, fashion communication, graphics and illustration. You will experience events management, visual merchandising and fashion styling.

LEVEL 4
Your final year entails a two-semester Honours project using supervisory pedagogies, supplemented by advanced evaluative practice and review.

See pages 230-231 and our website for entry requirements.

BA (Hons)

Fashion Branding and Promotion

UCAS code **WN27**
Duration **4 years BA (Hons)**

THE PROGRAMME
Combining elements of fashion communication, marketing, branding and management, you will gain a strong understanding of the business behind the industry. This programme prepares graduates for a fashion-focused yet broad range of careers, with invaluable exposure to industry practices.

LEVEL 1
This level focuses on design and marketing skills and introduces branding and marketing strategy. It will equip you with fundamental skills such as photography and design thinking.

LEVEL 2
Building on the fundamental skills, this level introduces specialist topics such as Consumer Behaviour and Advertising. It is supplemented with creative courses in digital film/media, typography and graphics.

LEVEL 3
You will develop critical reflection and analysis skills and work on projects in Fashion Styling, Enterprise and Innovation, Events Management and Visual Merchandising.

LEVEL 4
The focus of the Honours year is a research project of your choosing. Many students collaborate with industry partners to solve a real world problem or examine a topical industry development.

BSc (Hons)

Fashion Technology

UCAS code **JW42**
Duration **4 years BSc (Hons)**

THE PROGRAMME

The programme offers a strong vocational focus and multi-disciplinary approach, providing a balance of creativity and fashion product development. Students learn how commercial design and fashion technology link to create successful fashion products. Industrial focused projects develop a broad range of essential skills preparing graduates for a wide range of roles within the dynamic fashion industry. An integrated industrial placement in the third year of study provides students with essential industry skills in a variety of roles.

LEVEL 1

Develop a fundamental and practical knowledge of fashion product development, design, textiles and fashion marketing. Practical classes, workshops and lectures will build your understanding of key principles in the clothing and fashion industry. You will also get opportunities to show and develop your creative side working on practical projects.

LEVEL 2

Addressing the commercial context, and making use of our strong industry links, we'll help you develop skills and knowledge in CAD, design and development, textiles and fashion buying with the possibility of working on live briefs.

LEVEL 3

Enhance your creative and problem-solving skills working on interlinked projects that encourage independent learning. You'll also have the chance to embed technical and commercial product development expertise by working on live industry projects. Students spend the second semester in industry putting learning into practise in the real world.

LEVEL 4

Each student determines and completes an individual honours project that reflects the diverse and contemporary areas of the clothing and fashion industry. A global context is further explored through future textiles, global fashion management and entrepreneurship studies.

See pages 230-231 and our website for entry requirements.

BA (Hons)

Interior Design

UCAS code **W250**
Duration **4 years BA (Hons)**

THE PROGRAMME

Our Interior Design programme allows students to explore and develop skills in all aspects of interiors. It provides a core set of design skills relevant to the industry and a unique overlap with, and insight into, art, design, science, and technology. Students undertake projects through which they can express their own styles and specialisms in design, learning how to create interior spaces with relevance and value in today's world.

LEVEL 1

This level covers fundamental skills and the design process, before focusing on specific skills an interior designer needs to develop, including materiality and an awareness of sustainability.

LEVEL 2

You will continue to develop core skills and explore visual communication, construction studies, and professional development. In this year you will begin to experience live projects with industry partners.

LEVEL 3

This year covers design, contextual, engineering and building science courses. You'll be set a variety of briefs and projects, all with unique aims and challenges. Most of the courses incorporate a range of collaborative work too, allowing you to share ideas with students and peers from other design disciplines.

LEVEL 4

You will generate and develop a final major project to test and demonstrate the professional skills you have acquired during the programme. You are free to create your own design brief and then implement an end-to-end interior design project that fulfills the brief. This process is supported by classes that help you to critically reflect on and develop your practice and methodology.

WHY HERIOT-WATT?

Six months after graduating over 40% of our Combined Studies students are working, over 50% are continuing to study, and 3% are working and studying

We are 17th in the UK for graduate salaries six months after starting work as rated by The Times / Sunday Times Good University Guide 2020

THE TIMES
THE SUNDAY TIMES

Study Abroad

Study in Dubai

Study in Malaysia

CREATE YOUR OWN DEGREE

Be FutureMade in Combined Studies

BSc (Hons) Combined Studies

CONTACT US
T: 0131 451 3729
E: studywithus@hw.ac.uk
www.hw.ac.uk/ug-combined

Be FutureMade in

Combined Studies

Combined Studies gives you the opportunity to define your own interests within the framework of an unusually broad educational experience. You can 'write' your own degree structure, and with guidance from a Director of Studies, you may select subjects from the full range available at Heriot-Watt. Your Director of Studies will provide advice to help you build the modular programmes into a coherent degree.

You can pursue a Combined Studies programme to Ordinary or Honours level, on a full-time, part-time or 'mixed-mode' basis.

The Combined Studies programme is based on the principle of credit accumulation. Credits are obtained from courses across the full range of degree programmes offered by the University.

YOUR CAREER PROSPECTS

Heriot-Watt has an enviable reputation for graduate employability and a wide range of career options will be available to you.

Our Combined Studies students have good career prospects: six months after graduating 42% are working; 51% are studying; and 3% are working and studying. 70% of those working are in a professional/managerial position.

> "Heriot-Watt has great facilities, a good reputation for high quality studies, and links with industry. This route allowed me to create a personalised degree and to develop skills in both Computer Science and Business Management."
>
> **JOE BURNETT**
> BSc Combined Studies

BSc (Hons)

Combined Studies

UCAS code CFG0
Duration 4 years BSc (Hons) (full-time) or up to 10 years (mixed-mode)

CHOICE OF SUBJECTS

The subjects available for BSc Combined Studies at the Edinburgh Campus are:

- Actuarial Science
- Biological Sciences
- Brewing and Distilling
- Building Engineering
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Electrical and Electronic Engineering
- Information Systems
- Mathematics
- Mechanical Engineering
- Physics
- Statistics

You can also combine the above subjects with one of the following:

- Accountancy and Finance
- Economics
- Languages
- Management

LEVEL 1

Each student is allocated to a Director of Studies, who assists in the design of an individualised programme.

ADDITIONAL INFORMATION

A Combined Studies degree allows students to design their own degree programme from the subjects offered at Heriot-Watt University. Students take a group of subjects not covered by other degree programmes and can pick the right set of subjects from the wide range available to meet individual learning goals. Students can adapt their study on a part-time basis. With the help of a Director of Studies, students can devise a study programme that will support their ambitions.

See pages 230-231 and our website for entry requirements.

SUBJECT AREAS

Please indicate in section 3(f) of the UCAS application form the TWO main areas of study. You are not 'held' to your initial selection but it is useful in providing a starting point for Level 1 of your programme. The subject areas indicated are within the Schools of the University and therefore further information on the programme content can be found within the relevant sections throughout this prospectus.

SUBJECT AREA ABBREVIATIONS

AF	Accountancy and Finance
AS	Actuarial Science
BD	Brewing and Distilling
BS	Biological Sciences
Build	Building Engineering
C	Chemistry
CE	Chemical Engineering
CivE	Civil Engineering
CS	Computer Science
E	Economics
EEE	Electrical and Electronic Engineering
IS	Information Systems
L	Languages
M	Mathematics
Man	Management
ME	Mechanical Engineering
P	Physics
S	Statistics

PROGRAMMES AVAILABLE WITHIN COMBINED STUDIES (BSc)

Combined Studies CFG0
4 years BSc (Hons) (full-time)
or up to 10 years (mixed-mode)

Engineering H100
4 years BEng (Hons)
(see page 95)

KICK-START YOUR CAREER

"I've always had clear career goals but with a family to support I could not afford to go into full-time education. I am developing my personal and technical skills through this apprenticeship. All my coursework aligns directly with my work."

SUPTA DAS
Graduate Apprentice with Scottish Water studying IT Business Management

GRADUATE APPRENTICESHIPS

Fully funded, flexible, work-based learning, tailored to the needs of industry and individuals.

Heriot-Watt is one of the pioneers of Graduate Apprenticeships, which allow apprentices to gain degrees while working for their employers. From working with household names like BP, Shell and Siemens through to our knowledge transfer partnerships with Edinburgh gin-maker Spencerfield Spirit and heat battery developer SunAmp, we have an enviable record of working successfully with businesses.

The new Graduate Apprenticeship (GA) scheme offers apprentices the chance to gain a Bachelor's-level degree while working for their employer. It is a ground-breaking initiative, creating degree-qualified employees with the skills companies are looking for. Employers and universities collaborate to shape GAs around the needs of the industry. This approach guarantees that the content and study practices are easily implemented in, and relevant to, the workplace of the apprentice. GA is open to existing employees and new recruits.

FOR	WHEN	DURATION
New or existing employees	The balance between work and study is about 4:1	4 years
Honours degree	No age limit	Fully funded

CHOOSE FROM OUR GA PROGRAMMES

- MA (Hons) Business Management
- MA (Hons) Business Management: Financial Services
- BEng (Hons) Civil Engineering
- BSc (Hons) Construction and the Built Environment
- BSc (Hons) Data Science
- BEng (Hons) Engineering Design and Manufacture (Electronic or Mechanical)
- MA (Hons) IT Management for Business
- BSc (Hons) Software Development for Business

Places are in high demand, and offered on a first-come first-served basis to qualified employees – so please contact us for information now: **www.hw.ac.uk/ga**

PARTNERSHIP ROUTES WITH COLLEGES

Over 20% of our students gain entry through a college course

We welcome students from a range of different backgrounds. We work closely with local college partners, which means that over 20% of our students come to us with college qualifications.

YOUR ALTERNATIVE DEGREE PATHWAY

Benefits of the partnership route include:

- Flexible entry requirements set in collaboration with the college partner
- Enrolment with both the college and the University
- Access to University facilities (library, guidance services, Student and Sports Unions)
- A programme of activities and visits to the University throughout your college studies
- A guaranteed place at the University for Level 3 study if you meet the progression requirements
- Eligibility for our Access Bursary during your study from Level 3 onwards.

Applications to the Partnership Route should be made directly to the relevant college partner. Applications to the Forth Valley College partnership can be made through the college or UCAS.

For more information on our Partnership Routes, please contact: **wp@hw.ac.uk**

Start at your local college

As a student on one of these Partnership Routes you are both a college and a University student at the same time, studying the first two years at college and the final two years at University. Your first two years incorporate a Higher National Diploma (HND) qualification. Once you complete these two years, and achieve the grades you need for progression, your place is guaranteed at the University from Level 3.

Partnership routes:

BSc Computer Science
(partnership route with Edinburgh College)

BSc Computer Science
(partnership route with Fife College)

BEng/MEng Chemical Engineering
(partnership route with Forth Valley College)

BEng/MEng Mechanical Engineering
(partnership route with Edinburgh College)

BEng/MEng Mechanical Engineering
(partnership route with Forth Valley College)

BEng/MEng Electrical and Electronic Engineering (partnership route with Edinburgh College)

BEng/MEng Electrical and Electronic Engineering (partnership route with Forth Valley College)

MA (Hons) International Business Management (partnership route with Borders College)

BA (Hons) Design for Textiles – Weave
(partnership route with Glasgow Clyde College)

BA (Hons) Design for Textiles – Print
(partnership route with Glasgow Clyde College)

BSc (Hons) Fashion Technology
(partnership route with Glasgow Clyde College)

Partnership Route students who successfully complete the programme receive exactly the same qualification as students who begin their study with us from Level 1.

INTERNATIONAL STUDENTS

Welcome to Scotland – renowned for its hospitality, wild and beautiful landscape and rich cultural heritage, as well as a global reputation for its contribution to science and education.

One-third of the University's on-campus students studying in Scotland are from outside of the UK, making Heriot-Watt one of the most internationally diversified of any UK universities, with students travelling from countries including China, India, Malaysia, Thailand, Kazakhstan, Oman, Saudi Arabia, Nigeria, Norway, France, Germany, Spain, the Republic of Ireland and Greece.

The friendly team in International Recruitment is likely to be your first contact if you are an international or a European student. The team is here to provide advice on the best programme of study for you. Our knowledge of qualifications throughout the world is comprehensive and along with Admissions Tutors we can offer you a rapid response to any query relating to programmes or life at Heriot-Watt.

Prospect Experience
T: +44 (0) 131 451 3729
E: **studywithus@hw.ac.uk**

ADMISSION
If you are an international or European student applying for a full-time undergraduate programme, you should submit your application directly through UCAS (ucas.com). Please note that the application deadline is 15 January 2022 although non-EU applications will still be considered after this date.

ACCESS/FOUNDATION PROGRAMMES
The University works in partnership with a number of independent schools, private pathway providers and education colleges, and is willing to consider students who have achieved certain grades in pre-degree programmes. For further information please contact the International Recruitment Team.

ADVANCED ENTRY TO LEVEL 2 OR 3
If you have achieved good results in a diploma course or have obtained an overseas or European qualification in your home country after 2 to 2.5 years of post-high school study, this may meet the requirements for advanced entry to our programmes. This also applies if you have obtained excellent A-Level results or equivalent. In order to aid this type of transition to Level 2 or 3, we offer subject-specific support.

EXCHANGE STUDENTS
If you are an international exchange student on an Erasmus or non-Erasmus exchange programme, please feel free to contact the Global Student Office when you apply to Heriot-Watt.
T: +44 (0) 131 451 4015
E: **hwuexchange@hw.ac.uk**

INCOMING STUDY ABROAD (NON-EXCHANGE)

We welcome applications from semester or full year visiting and non-graduating students and can offer a range of different undergraduate courses through our five academic Schools. Our flexible degree structure allows students to mix and match four courses (modules) per semester and choose from first, second and third year courses (subject to prerequisites). Credits are awarded for each of the courses. Further information is available from the International Recruitment Team:
www.hw.ac.uk/visitingstudents
E: **visitingstudents@hw.ac.uk**

ENTRY REQUIREMENTS FOR INTERNATIONAL STUDENTS

We can accept many international qualifications for entry to our undergraduate programmes. Please visit the Country Pages on our website for specific entry requirements for your country. If your country is not listed or you want to confirm that you are eligible before completing your UCAS application, please contact:
Prospect Experience:
E: **studywithus@hw.ac.uk**

ENGLISH LANGUAGE REQUIREMENTS

If your first language is not English, it is important that you gain an acceptable English language qualification before joining one of our undergraduate programmes. To guide you in this, we have listed some acceptable qualifications below but these may vary, so please check with the Admissions Tutor prior to application.

- IELTS: 6.0, with minimum of 5.5 in all four skills (listening, speaking, reading, writing)
- PEARSON (PTE): 57 overall, with a minimum of 51 in all four skills
- CAMBRIDGE: FCE (minimum 169)
- TOEFL IBT: Minimum 80 overall with a minimum of 42 in all four skills
- An average C grade on a Heriot-Watt pre-sessional progamme.

EXCEPTIONS TO THE ABOVE:

Undergraduate programmes in Actuarial Science require IELTS 6.5 or equivalent. All our undergraduate interpreting and translating programmes require IELTS 7.5 or equivalent. Students from Norway who have achieved a good level of English (4) in their Vitnemål generally do not need to sit an English language test.

ENGLISH LANGUAGE PROGRAMMES

Heriot-Watt offers a flexible pre-sessional programme of English language and study skills designed to help you prepare the ground for your degree studies. These courses vary in length, depending on your requirements and level of English. Successful completion means that you will be able to enter the degree of your choice without having to sit further English language tests such as IELTS. If you do not have the required English language level you can join one of our English Language programmes.

Head of Academic English
E: **English@hw.ac.uk**

"The University is a melting pot of academic experts, many with strong links with industry. Lecturers operate an 'open door' policy which means help is never too far away."

SUSAN CHAN
BSc Physics

"I can't recommend Heriot-Watt enough! Its links to industry prepared me well for my early career and the Industrial Project Internship experience was so rewarding. It also helped me secure a job with one of the largest companies in my field doing my dream role."

JORDAN GREENHORN
MEng Architectural Engineering

Heriot-Watt is a highly internationalised study environment with opportunities to study abroad.

INTERNATIONAL STUDENT ADVICE GLOBAL STUDENT OFFICE

Visit the international student advice website for pre-arrival information on visa applications, money and what to bring. Once you are here the Global Student Office team provides helpful, friendly advice on visas and immigration, health care and working in the UK, and they will also help you to extend your student visa if you need to. T: +44 (0) 131 451 4015
www.hw.ac.uk/isa

ACCOMMODATION GUARANTEE

As an international undergraduate student you will be guaranteed a room in one of the University's halls of residence or flats either on- or off-campus. This is only guaranteed if you have an unconditional offer from us and apply for accommodation before the deadline. This guarantee does not apply to exchange students.

Edinburgh Campus
E: **halls@hw.ac.uk**
www.hw.ac.uk/accommodation-ed

Scottish Borders Campus
E: **bordershalls@hw.ac.uk**
www.hw.ac.uk/accommodation-sbc

INTERNATIONAL STUDENT SOCIETIES

Heriot-Watt plays host to a thriving collection of international student societies, including those for African, Caribbean and Indian students. More information on the societies is available from the student union: **hwunion.com**

INTERNATIONAL CONNECTIONS

If you have further questions or would like to speak to a current student from your country about their experience, do get in touch and we will arrange this for you.

INTERNATIONAL FEES AND LIVING EXPENSES

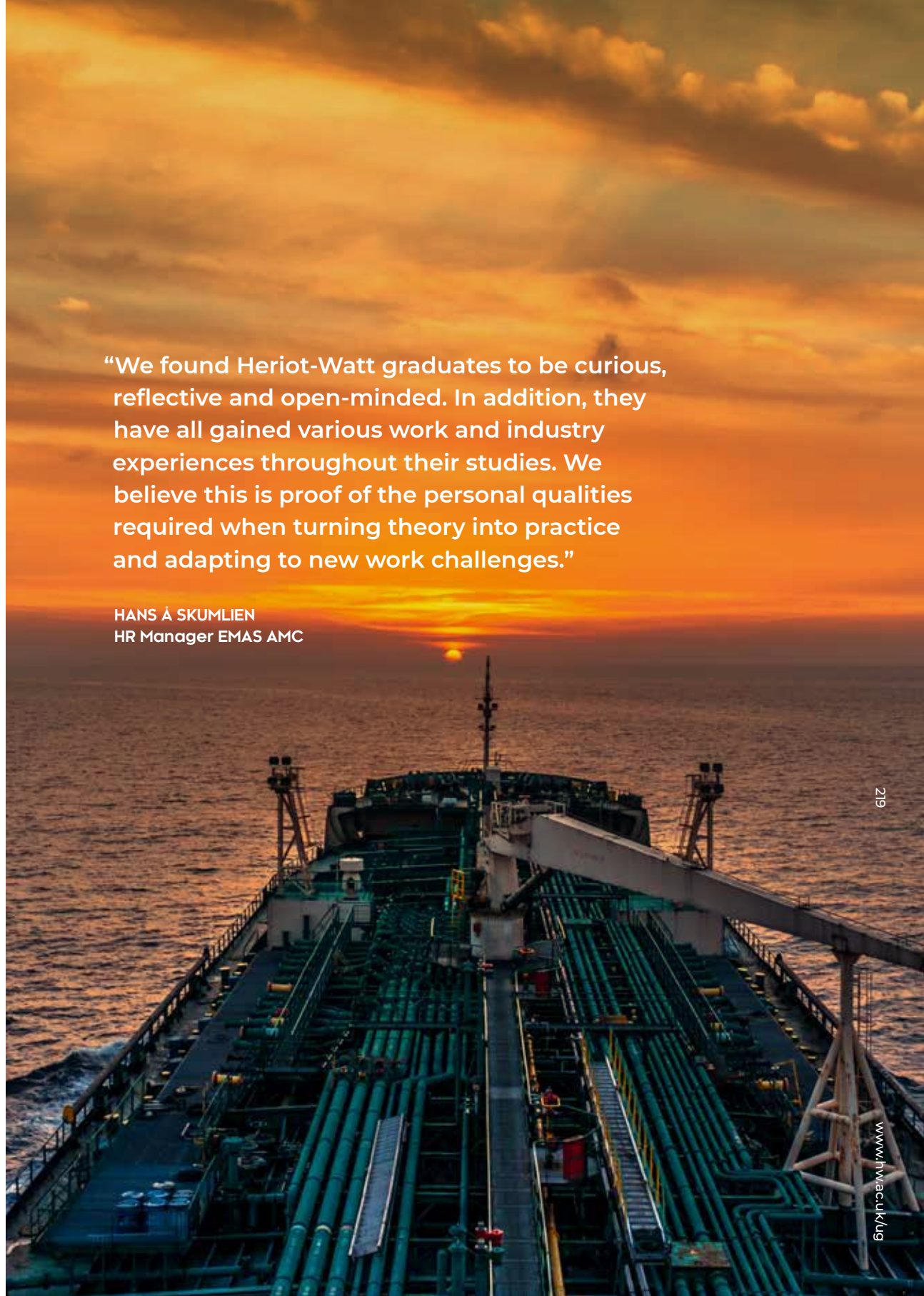
Tuition fees for 2022/23 can be found on our website. Fees are listed alongside the programme information at: **www.hw.ac.uk/ug**. See **www.hw.ac.uk/budget** for a guide figure as to what you should expect to spend on living expenses during each academic year (nine months), though, of course, the amount you actually do spend is very much down to lifestyle choice. Before joining Heriot-Watt you should ensure that you have the necessary funds to cover all expenditure over the life of your programme as, regrettably, the University is unable to provide financial assistance other than through individual scholarships awarded before commencing your studies.

HERIOT-WATT SCHOLARSHIPS (FEE REDUCTION)

Heriot-Watt offers international applicants for undergraduate programmes the opportunity to apply for one of our scholarships. Awards are made on a competitive basis. Further details of fee reduction scholarships are available at: **www.hw.ac.uk/scholarships**. In addition, applicants can consult the following website to learn of other funding opportunities available: **www.educationuk.org/scholarships**

CHECKLIST FOR OVERSEAS APPLICANTS

- If you wish to check which year of entry you may be offered a place for, you should forward a copy of your exam results and English qualification by email indicating your programme choice to Prospect Experience (**studywithus@hw.ac.uk**) or directly to the Admissions Tutor in the School where you wish to study. Your results will be assessed and you will be advised as to which year of entry you may be eligible for.
- Fill in your UCAS form online at **ucas.com** and send it electronically to UCAS.
- Confirm that you have adequate financial support.
- Firmly accept your offer of a place via **ucas.com**
- Book your accommodation early before the deadline.
- If you need to apply for a student visa, please ensure you follow the guidelines on the Home Office website or contact the **Global Student Office: www.gov.uk/student-visa**



"We found Heriot-Watt graduates to be curious, reflective and open-minded. In addition, they have all gained various work and industry experiences throughout their studies. We believe this is proof of the personal qualities required when turning theory into practice and adapting to new work challenges."

HANS Å SKUMLIEN
HR Manager EMAS AMC

SCHOLARSHIPS, BURSARIES AND MERIT AWARDS

We are committed to supporting our students with an attractive and competitive range of Scholarships, Bursaries and Merit Awards.

We want to ensure that students from all financial backgrounds can benefit from the advantages of a Heriot-Watt degree. Scholarships, Bursaries and Merit Awards are made based on your personal circumstances, including academic achievement. These awards don't need to be paid back.

For further information, eligibility and how to apply: **www.hw.ac.uk/scholarships**

"Obtaining the Heriot-Watt Merit Scholarship has helped me achieve my dream of studying in one of the best universities for an Actuarial Science degree, which is one of only a few to be accredited by the Institute and Faculty of Actuaries. It has opened up plenty of opportunities as I am able to form close links with the industry via various events such as actuarial careers fairs and talks by graduates working in leading actuarial firms."

KESHANA THINAKARAN
BSc Actuarial Science and Diploma in Industrial Training
School of Mathematical and Computer Sciences

ROYAL BANK OF SCOTLAND SCHOLARSHIP FOR BAME STUDENTS
A new Scholarship open to black and ethnic minority undergraduates launched in 2021 offering £3,000 to one first year student studying the MA (Hons) Finance programme.

BREWGOODER SCHOLARSHIP FOR BAME STUDENTS
A new Scholarship open to Scottish domiciled black and ethnic minority undergraduates studying BSc Brewing and Distilling offering £2,000 per year of undergraduate study.

ACCESS BURSARIES
The University offers 50 awards each year. Students who are awarded an Access Bursary receive a total of £1,000 for each year of their undergraduate studies. The student is paid £1,000 in their first year of studies (this includes those entering directly to Levels 2 or 3), and £1,000 in each year as an enrolled student on an Honours degree. If the student is taking part in a paid work placement, the bursary will not normally be paid for that year. Students on an Inter-Campus Transfer will continue to receive the bursary.
www.hw.ac.uk/access-bursary

REST OF UK (RUK) BURSARIES
In addition to government loans and grants towards the costs of fees and living costs, we are offering generous income-related financial bursaries of up to £3,100, to attract and support eligible students from England, Northern Ireland or Wales.

INTERNATIONAL ACADEMIC SCHOLARSHIP AVAILABLE FOR INTERNATIONAL FEE-PAYING, SELF-FUNDED STUDENTS
Heriot-Watt Merit Awards for International students from; India, Thailand, Nigeria, Pakistan, Nepal, Saudi Arabia, Oman, Qatar, UAE.

- Merit Awards of £1,500 for the first year of study are available for applicants with a good level of academic achievement
- Excellence Awards of £3,000 for the first year of study are available for those with high levels of academic achievement.

More information is available at:
www.hw.ac.uk/scholarships

Access Bursaries: 50 awards per year

Rest of UK Bursaries: Up to £3,100 in income-related financial bursaries

International Academic Scholarships: £1,500 to £3,000 for the first year of study

INFORMATION FOR APPLICANTS

We are committed to helping students reach their full potential and welcome applicants from all backgrounds. We encourage students to find the right route into university for them and are happy to consider a wide range of qualifications including those from school, college, university and distance learning. We will also consider prior learning and work experience in a related field.

What do I need to apply for the degree programme I want to study?

You'll need qualifications, a personal statement and a reference. For some specific programmes you might also need to submit an art/design portfolio or attend an interview.

If English is not your first language you will normally need to provide evidence of your English language skills through qualifications.

Our application deadlines are:

15 January 2022
Deadline for all UK applicants.

30 June 2022
Deadline for all international applicants.

How should I apply?

All applications to undergraduate degree programmes based at our Scottish campuses, whether you are from the UK or an international applicant, should be made through the Universities and Colleges Admissions Service (UCAS). Applications are made online at **www.ucas.com**

All applications to programmes at our Dubai or Malaysia Campuses should apply directly to the relevant campus. Please visit the campus websites for more information:
www.hw.ac.uk/dubai
www.hw.ac.uk/malaysia

Where can I get help with the application form?

There are a number of different sections in the application form. The most important section is the personal statement. Our admissions officers will read the personal statement to help them make a decision on whether to make an offer or not so it is really important to spend time writing this. You can get more advice on what we are looking for on our website:
www.hw.ac.uk/ug-uk-apply-help

UCAS also has a range of support and advice to help you complete your application:
www.ucas.com/undergraduate/applying-to-university

What is an academic reference?

This should be submitted by a teacher, lecturer or other professional who is able to comment on your application and ability to complete your intended programme of study. If you have experienced any personal circumstances which may have affected your previous academic performance, we would advise that you should speak to your referee about including this in this section.

INFORMATION FOR APPLICANTS

When will I hear back about my application?

All our applications are considered by our team of Admissions Officers. If we are able to make you an offer it will be either conditional or unconditional:

- An unconditional offer – this means that you have already met our entry requirements. In other words, if you accept this offer, you have a place at the University.
- A conditional offer - this means that you still have to meet some or all of the entry requirements, usually exam results. What you need to get will be detailed in your conditional offer. If you accept this offer, and get the results we've asked for, you have a place at the University.

We aim to make decisions on applications submitted on or before 15 January 2022 by the end of March 2022. Whatever our decision you will be able to see this on UCAS Track. That is also where you can accept our offers.

When you have received decisions from all the universities you have applied to, UCAS will let you know the deadline you need to make decisions by. You can find more information on all of this on their website:
www.ucas.com/ucas/undergraduate/apply-and-track/track-your-application

Will I have an opportunity to visit Heriot-Watt once I have applied?

All applicants who are made an offer of a place at the University, or who are being considered for an offer, are invited to one of our **Offer Holder Days**. This is your opportunity to find out what it will be like to be a student in your chosen subject and ask any questions you have that will help you decide which offer to accept.

What qualifications and grades do I need?

The qualifications or grades you need will vary by degree programme and may also depend on whether you are a widening access student (see below for more information). Some programmes will require you to have studied specific subjects.

We call these qualifications our entry requirements. Details for each programme are listed on pages 231. We use some specific terms which are explained right:

- **Year 1 / Year 2 etc** – this describes the entry point for each degree programme. Most applicants apply for entry to Year 1. Advanced entry into other years is possible (see below for information).
- **Standard entry requirements** – These are the grades and any required subjects you will need to get on to the programme. The main qualifications listed are Highers, A Levels, HNC/HND, SWAP Access and BTEC.
- **Minimum entry requirements / adjusted offer** – These apply to UK applicants who are widening access students. Depending upon your background you may be eligible for our minimum entry offer, or an adjusted offer, which is in between our minimum and standard offers. We explain this in more detail below.

If you do not see your qualifications listed, get in touch with our admissions team for advice: **studywithus@hw.ac.uk**

Here is an example of how we show our entry requirements on our website:

YEAR 1

Standard entry requirements
Highers AABB
A-Levels BBC
Int. Baccalaureate 29 points
BTEC DDM (Business/Accountancy/Finance preferred)
HNC B in graded unit

Unless you are a widening access student you will need these grades to get in.

Minimum entry requirements
Highers BBBC
A-Levels BCC

If you are from a priority postcode area (MD20), or are care experienced, you are guaranteed a place at these grades.

Adjusted offer
We can also make exceptions for some Scottish students with grades above minimum but below standard. Details can be found in our Fair Access Policy.

If you are a widening access student who is not eligible for a minimum offer then this applies to you.

We accept a lot of different qualifications and can't list them all in detail in this prospectus. You can find more information on our website:
www.hw.ac.uk/ug-entry-reqs

INFORMATION FOR APPLICANTS

Can I get advanced entry to my degree programme?

If you have achieved good results in Advanced Highers, A-Levels, an HNC/HND course or a diploma level course you may be eligible for advanced entry. This is usually dependent on your qualifications being in a related subject to your chosen degree programme. We will also consider overseas or European qualifications in your home country after 2 to 2.5 years of post-high school study. For more advice contact our admissions team directly.
studywithus@hw.ac.uk

Am I a widening access student?

We recognise that not everyone has an equal opportunity to demonstrate their full academic potential from their school or college qualifications alone. For this reason, we aim to identify each applicant's full talent and potential. We call this process our Fair Access Policy, and it enables us to consider an applicant's achievements in context, looking beyond just grades. You can find out more on our website:
www.hw.ac.uk/access

If you are a care-experienced student or are from a priority postcode area (MD20 postcode), **you will be guaranteed an offer at our minimum entry requirements**. Minimum entry requirements for each programme are listed on pages 225.

If you have care experience, remember to tick the relevant box on your UCAS application form. This will allow us to make you a minimum offer and contact you about the support available. You can find out more about our support for individuals with care experience on our website:
www.hw.ac.uk/careleavers

We will consider you a widening access student, eligible for an adjusted offer, if you:

- live in a target postcode area (MD40)
- are a student in a recognised SHEP programme, this includes LEAPS eligible students
- have caring responsibilities
- are an Estranged Student (i.e. studying without the support of a family network)
- are in receipt of the Education Maintenance Allowance (EMA)
- are eligible for free school meals
- are a mature student with no prior experience of higher education.

What is an adjusted offer and what will it look like?

Educational context can affect your grades, so we use what we call contextual admissions to take into account your potential as well as your achievements. We may then make you a slightly lower offer than our standard entry requirements. This is called an adjusted offer.

An adjusted offer will sit somewhere in between our minimum and standard entry requirements. Here are some examples of adjustments we might make, using Highers and Advanced Highers:

- Up to two grades lower than the standard requirement e.g. AABB would be BBBB, AACC or ABBC
- One less Higher than the standard entry requirements e.g. AABB would be AAB or ABB; BBBBC would be BBBB or BBBC
- Count one Advanced Higher taken in S6 as additional to the Higher taken in the same subject in S5 (as opposed to the current practice where an Advanced Higher cancels out a Higher in the same subject).

Scottish applicants with other qualifications can also be made an adjusted offer.

INFORMATION FOR APPLICANTS

Do you accept HNCs and HNDs?

You can enter many of our degree programmes with Higher National Certificates (HNCs) and Higher National Diplomas (HNDs). These are qualifications usually taken in college.

When choosing a course we recommend that you study a subject related to your degree; i.e. if you would like to study International Business Management choose an HNC in a related subject like Business or Marketing.

Direct entry into the second or even third year of some degree programmes is possible, depending on the HNC or HND subject and Graded Unit. These are listed in the entry requirements section of the individual degree programmes.

I'm a mature student, can I apply?

Mature students have had a break of a few years in formal education since school and have typically not been to university before.

We warmly welcome applications from mature students to all of our degree programmes. Traditional entry requirements may be relaxed if you didn't gain formal qualifications at school. You can also start university with other qualifications, such as an access course or Open University modules or use prior learning and/or experience if it is in a related field.

Check our website, or get in touch, for more information: **www.hw.ac.uk/routes**

Scottish Wider Access Programme (SWAP East)

We are an active member of SWAP East, which provides access courses tailored to help mature students progress to university. To find the right course, you can contact SWAP East directly – **www.scottishwideraccess.org** – or ask us for advice – **wp@hw.ac.uk**. You can also find out more by using the 'Possible degree progressions' search engine on the SWAP East website - **swapsurvey.org/progression/east.** The grades we require from the SWAP student profile are listed on pages 225.

Entry requirements

These are the entry requirements for our undergraduate degree programmes. They should be read alongside the 'Information for Applicants' section on pages 223-227. If your qualifications are not listed, or you are not sure if you will meet our entry requirements, contact our admissions team: **studywithus@hw.ac.uk**

N.B. The printed prospectus is prepared approximately 18 months in advance of the start of your degree programme. Entry requirements can change so please check our website before you apply.

Essential subjects

Where a degree programme lists essential subjects, this means that you need to have these qualifications already or planning to sit them. If you are at college, your course needs to include these at a suitable level e.g. if Chemistry is given as an essential subject, you should study an HNC in Applied Sciences or a science-based access course that includes Chemistry modules.

Full details of subjects and grades can be found on our website. If you are unsure if you have the required subjects and grades, or want to check this before you apply, please get in touch: **studywithus@hw.ac.uk**

All language degrees

Entry grades for all language degrees, except Chinese, should include the main language you want to study. For joint honours language degrees with British Sign Language (BSL) we would expect this to be in the non-BSL language. Full details of subjects and grades can be found on our website.

For British Sign Language (BSL) degree programmes some experience in BSL is useful. We also look for a demonstrable interest in BSL/d/Deaf culture. Any offer made for this programme is based on a successful interview.

N.B. Our single honours language degree programmes are not suitable for fluent speakers of that language (except BSL). We would encourage fluent speakers to apply for our joint honours language programmes (including joint honours with BSL).

	Level One (Year One)							Level Two (Year Two)			
	Minimum Entry		Standard Entry Requirements					Standard Entry Requirements			
Degree programme clusters	**Higher**	**A-Levels**	**Higher**	**A-Levels**	**BTEC**	**HNC**	**SWAP**	**Essential Subjects** please see website for required grade(s)	**Adv. Higher**	**A-Levels**	**BTEC**	**Essential Subjects** please see website for required grade(s)
Energy, Geoscience, Infrastructure and Society												
Biology – all degrees	BBBC	BCC	AABB	BBC	DMM	C	BBB	Science subject e.g. Biology, Chemistry, Environmental Sciences, Human Biology, Mathematics or Physics	BB	ABB	DDM	Biology or Human Biology
Architectural Engineering – all degrees	BBBC	BCC	ABBB	BCC	MMM	B	BBB	Maths or relevant Engineering course	BC	BBB	DMM	Maths or Relevant Engineering course
Civil and Structural Engineering – all degrees	BBBC	BCC	AABB	BBC	DMM	B	BBB	Maths or relevant Engineering course	BB	ABB	DDM	Maths or Relevant Engineering course
Construction Management	BBBC	BCC	ABBB	BCC	MMM	C	BBB	N/A	BC	BBB	DMM	BTEC in relevant subject area
Quantity Surveying	BBBC	BCC	ABBB	BCC	MMM	C	BBB	N/A	BC	BBB	DMM	BTEC in relevant subject area
Geography and Urban Studies - all degrees	BBBC	BCC	AABB	BBC	DMM	B	BBB	BTEC in relevant subject area	BB	ABB	DDM	BTEC in relevant subject area
Engineering and Physical Sciences												
Chemistry – all degrees	BBBC	BCC	ABBB	BBC	DDM	A	BBB	Chemistry and Maths	AB	ABB	DDD	Chemistry and Maths
Physics – all degrees	BBBC	BCC	AABB	BBB	DDM	B	BBB	Physics and Maths	AB	AAB	DDD	Physics and Maths
BEng Electrical, Electronic and Computer Eng – all degrees	BBBC	BCC	BBBBC	BBC	DDM	A	BBB	Maths and one of Physics, Eng Science, Tech. Studies or (for Robotics only) Comp Science	BB	ABB	N/A	Physics and Maths
MEng Electrical, Electronic and Computer Eng – all degrees	BBBC	BCC	AABB	BBC	DDM	A	BBB	Maths and one of Physics, Eng Science, Tech. Studies or (for Robotics only) Comp Science	BB	ABB	N/A	Physics and Maths
Chemical Engineering degrees	BBBC	BCC	AAAB	BBC	DDM	A	BBB	Maths and Chemistry	AAB	AAB	N/A	Physics and Chemistry
Mechanical Engineering degrees	BBBC	BCC	AAAB	BBC	DDM	A	BBB	Maths and Physics / Engineering Science	ABB	AAB	N/A	Physics and Maths
Brewing and Distilling	BBBC	BCC	AABBC	BBC	DMM	A	BBB	Maths and a Science (Biology / Chemistry preferred)	BB	ABB	DDD	Maths and Biology
Engineering degree	BBBC	BCC	AABB	BBC	DDM	A	BBB	Maths and a Science	N/A	N/A	N/A	
Combined Studies degree	BBBC	BCC	AABB	BBC	DDM	A	BBB	Maths and a Science / Language where relevant	N/A	N/A	N/A	
Social Sciences												
Accountancy and Finance degrees	BBBC	BCC	AABB	BBC	DMM	B	BBB	BTEC/HNC in related subject See website for details	BB	ABB	DDM	Accounting, Business, Economics or Maths
International Business Management (IBM) / Marketing degrees	BBBC	BCC	AABB	BBC	DMM	B	BBB	BTEC/HNC in related subject See website for details	BB	ABB	DDM	Accounting, Business, Economics or Maths
Economics degrees	BBBC	BCC	AABB	BBC	DMM	B	BBB	BTEC/HNC in related subject See website for details	BB	ABB	DDM	Accounting, Business, Economics Min of AS / Higher Maths
ACCELERATED PROGRAMMES in International Business Management / Marketing / Economics / Accountancy and Finance	Applicants to the SoSS accelerated programmes must meet the YEAR 2 entry requirements in the equivalent standard programmes.								N/A	N/A	N/A	
Languages – one European Language (incl. IBM)	BBBC	BCC	AABB	BBC	DMM	B	BBB	Relevant language See website and notes above	Advanced entry is considered on a case-by-case basis			
International Business Management with Chinese	BBBC	BCC	AABB	BBC	DMM	B	BBB	See website and notes above Not suitable for fluent / native speaker	N/A	N/A	N/A	
Languages – two European Languages	BBBC	BCC	AABB	BBC	DMM	B	BBB	At least one relevant language See website and notes above	Advanced entry is considered on a case-by-case basis			
British Sign Language (single honours)	BBBC	BCC	AABB	BBC	DMM	B	BBB	See notes above for more information	N/A	N/A	N/A	
British Sign Language (with European Language)	BBBC	BCC	AABB	BBC	DMM	B	BB	See notes above for more information	N/A	N/A	N/A	
Psychology - all degrees	BBBC	BCC	AABB	BBC	DMM	B	BBB	Psychology / Social Science preferred	BB	ABB	DDM	Psychology / Health and Social Sciences
Mathematics and Computer Sciences												
Mathematics – all degrees	BBBC	BCC	ABBBB	BBB	DDM	B	ABB	Mathematics	ABB	ABB	DDM	Mathematics
Exceptions												
Mathematics and Computing Science	BBBC	BCC	ABBBB	BBB	DDM	B	ABB	Mathematics	ABB	ABB	DDM	Mathematics and Computing
Mathematics with a Language	BBBC	BBC	ABBBB	BBB	DDM	B	N/A	Mathematics and relevant Language	N/A	N/A	N/A	
Mathematics with Physics	BBBC	BCC	ABBBB	BBB	DDM	B	N/A	Mathematics and Physics	ABB	ABB	DDM	Mathematics and Physics
Computer Science – all degrees	BBBC	BCC	ABBB	BBC	DDM	B	ABB	Must include Mathematics	BBB	ABB	DDM	Mathematics and Computing
Exceptions												
Computer Systems	BBBC	BCC	ABBB	BBC	DDM	B	ABB	N/A	BBB	ABB	DDM	Computing
Information Systems	BBBC	BCC	ABBB	BBC	DDM	B	ABB	N/A	BBB	ABB	DDM	Computing
Software Engineering	BBBC	BCC	AAAB	BBB	DDM	B	ABB	Mathematics	BBB	ABB	DDM	Mathematics and Computing
Actuarial Science – all degrees	ABBC	ABC	AAAB	AAB	DDD	B	AAA	Mathematics	AAB	AAA	DDD	Mathematics
Data Sciences – all degrees	BBBC	BCC	ABBB	ABB	DDM	B	ABB	Mathematics	ABB	ABB	DDM	Mathematics and Computing
Textiles and Design												
Fashion and Textiles – all degrees	BBBC	BCC	ABBB	BCC	DMM	C	BBB	Satisfactory portfolio (excluding Fashion Tech / Fashion Marketing and Retailing) Higher English (Fashion Tech / Fashion Branding and Promotion only)	ABB	ABB	DDM	Satisfactory portfolio (excluding Fashion Tech / Fashion Marketing and Retailing)

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DISCLAIMER OF LIABILITY
Heriot-Watt University will make all reasonable efforts to deliver the programmes described in this prospectus.

Prospective students should be aware that it is occasionally necessary to modify, discontinue or combine programmes and/or make changes to entry requirements. This may be necessary for a number of reasons such as low enrolments, illness or departure of staff, industrial action or reduction of funding. The University does not provide education on a commercial basis, and is dependent on public and charitable funds which require the University to deploy its resources efficiently and rationally. Changes will only be made if the University reasonably considers it to be necessary.

If a programme is discontinued, the University will use reasonable endeavours to provide a suitable alternative and will take all reasonable steps to minimise disruption; allow a student to withdraw without penalty if a programme is cancelled or significantly varied, with an appropriate refund of tuition fees and deposits.

Heriot-Watt reserves the right to withdraw opportunities to participate in the Go Global programme. including Inter-Campus Transfers, at any time.

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