# Undergraduate CAO Courses

at Munster Technological University

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## Business, Marketing, Management, and Accounting

## Culinary Arts, Hospitality, and Tourism

## Sport, Physical Activity, and Leisure

## Social Sciences and Education
## Engineering

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**Nursing and Health Care**

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**Computer Science**

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<tr>
<td>MT 802</td>
<td>Computer Systems</td>
<td>8</td>
<td>BSc (Hons)</td>
<td>Bishopstown</td>
<td>148</td>
</tr>
<tr>
<td>MT 706</td>
<td>Computer Systems and Networking*</td>
<td>7</td>
<td>BSc</td>
<td>Kerry North</td>
<td>149</td>
</tr>
<tr>
<td>MT 803</td>
<td>Computing (Common Entry)(Degree Award Options)*#</td>
<td>8</td>
<td>BSc (Hons)</td>
<td>Kerry North</td>
<td>151</td>
</tr>
<tr>
<td>MT 703</td>
<td>Computing (Common Entry)(Degree Award Options)*</td>
<td>7</td>
<td>BSc</td>
<td>Kerry North</td>
<td>152</td>
</tr>
<tr>
<td>MT 804</td>
<td>Computing with Games Development*</td>
<td>8</td>
<td>BSc (Hons)</td>
<td>Kerry North</td>
<td>153</td>
</tr>
<tr>
<td>MT 704</td>
<td>Computing with Games Development*</td>
<td>7</td>
<td>BSc</td>
<td>Kerry North</td>
<td>154</td>
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<tr>
<td>MT 801</td>
<td>Computing with Software Development*#</td>
<td>8</td>
<td>BSc (Hons)</td>
<td>Kerry North</td>
<td>155</td>
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<tr>
<td>MT 701</td>
<td>Computing with Software Development*</td>
<td>7</td>
<td>BSc</td>
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<tr>
<td>MT 805</td>
<td>IT Management</td>
<td>8</td>
<td>BSc (Hons)</td>
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<td>157</td>
</tr>
<tr>
<td>MT 705</td>
<td>Information Technology*</td>
<td>7</td>
<td>BSc</td>
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<tr>
<td>MT 800</td>
<td>Software Development*</td>
<td>8</td>
<td>BSc</td>
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<tr>
<td>MT 700</td>
<td>Software Development*</td>
<td>7</td>
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**Art, Design, and Creative Media**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Level</th>
<th>Qualification</th>
<th>Campus</th>
<th>Points 2021</th>
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<tbody>
<tr>
<td>MT 811</td>
<td>Animation, Visual Effects and Motion Design*#</td>
<td>8</td>
<td>BA (Hons)</td>
<td>Kerry North</td>
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<tr>
<td>MT 711</td>
<td>Animation, Visual Effects and Motion Design*+</td>
<td>7</td>
<td>BA</td>
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<tr>
<td>MT 829</td>
<td>Contemporary Applied Art (Ceramics, Glass,Textiles)</td>
<td>8</td>
<td>BA (Hons)</td>
<td>MTU CCAD</td>
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<tr>
<td>MT 824</td>
<td>Creative Digital Media</td>
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<td>BA (Hons)</td>
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<td>MT 821</td>
<td>Fine Art+</td>
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<td>MT 822</td>
<td>Photography with New Media+</td>
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<td>BA (Hons)</td>
<td>Envision Centre, Cork</td>
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<td>MT 812</td>
<td>TV, Radio and New Media*</td>
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<td>MT 712</td>
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<tr>
<td>MT 823</td>
<td>Visual Communications+</td>
<td>8</td>
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**Music, Theatre and Drama**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Level</th>
<th>Qualification</th>
<th>Campus</th>
<th>Points 2021</th>
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<tr>
<td>MT 936</td>
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<td>8</td>
<td>BMus (Hons)</td>
<td>MTU CSM</td>
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<tr>
<td>MT 938</td>
<td>Musical Theatre+</td>
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<td>BA (Hons)</td>
<td>MTU CSM</td>
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<tr>
<td>MT 937</td>
<td>Popular Music+</td>
<td>8</td>
<td>BA (Hons)</td>
<td>MTU CSM</td>
<td>178</td>
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<tr>
<td>MT 939</td>
<td>Theatre and Drama Studies+</td>
<td>8</td>
<td>BA (Hons)</td>
<td>MTU CSM</td>
<td>179</td>
</tr>
</tbody>
</table>

* Students who successfully complete year two of this programme and who do not wish to progress to the third year are eligible to receive a Higher Certificate award.

# Students who successfully complete year three of this programme and who do not wish to progress to the fourth year are eligible to receive an Ordinary Degree.

+ Restricted Application and/or Early Assessment Procedures.

▲ Not all applicants on the points got offered a place.

**MTU Maths Examination**

Some students who apply to MTU courses may not achieve the required entry standard in Maths through the Leavers Certificate. For such applicants, MTU offers a second chance to reach the required entry standard through a MTU Maths Exam. In order to sit the MTU Maths Examination, students MUST APPLY ONLINE. The MTU Maths Examination will most likely be held on Tuesday following the week of the Leavers Certificate results release. Exact details will be published on www.mtu.ie/ maths closer to the date.
Six Campuses...
One University

MTU Bishopstown Campus, Cork
MTU Kerry North Campus
MTU Kerry South Campus
MTU Cork School of Music
MTU Crawford College of Art & Design
National Maritime College of Ireland

www.mtu.ie
This past year has been very challenging for everyone. We have all had to adapt to new ways of doing things and our courses continue to be delivered in a manner that is in line with current public health guidelines. At MTU we always put the learner at the centre of our delivery. I am confident that students joining us in September 2022 will enjoy a great experience on campus.

MTU’s vision is to lead transformation through education. Our mission is to lead change and, through education, empower people for a successful future in a globalised world. We do that by supporting a diversity of learners across NFQ levels 6-10. MTU offers students a broad range of options in relation to course choice, progression opportunities, research and industry placement.

We are dynamic, bold and brave and a hallmark of MTU is its flexibility and inclusivity. We ensure access for a wide variety of people at every stage in their learning journey, enabling them to achieve their real potential in the world of tomorrow. With that in mind, we welcome the new Action Plan for Apprenticeship 2021-2025 which sets out a five-year strategy to deliver on the Programme for Government commitment of reaching 10,000 new apprentice registrations per year by 2025. This prospectus outlines our full range of courses including our apprenticeship provision and, of course, our CAO course offerings.

As you consider your options for the next stage of your educational journey, I am confident that MTU can provide a strong foundation from which to launch your career. If you need more information on our courses visit mtu.ie and please don’t hesitate to contact any of our staff. You can be part of this exciting time at MTU and I look forward to welcoming you in 2022.
# Contents

President's Welcome | 1  
About Munster Technological University | 2  
Fees and Grants | 12  
Scholarships | 13  
Student Services | 14  
Accommodation | 15  
Sports | 16  
Societies | 20  
Access Service | 22  
National Framework of Qualifications | 24  
Course Structures at MTU | 25  

## Full-time Undergraduate Courses

- Business, Marketing, Management, and Accounting | 26  
- Culinary Arts, Hospitality, and Tourism | 38  
- Sport, Physical Activity, and Leisure | 50  
- Social Sciences, and Education | 64  
- Engineering | 74  
- Maritime Studies | 108  
- Biological, Physical, and Pharmaceutical Sciences | 114  
- Nursing and Health Care | 140  
- Computer Science | 146  
- Art, Design, and Creative Media | 162  
- Music, Theatre, and Drama | 174  

## Apprenticeships

- Apprenticeship Programmes | 180  

## Postgraduate Study and Research

| 186  

## General Admission Requirements

- General Admission Requirements | 188  
- General Information | 215  
- Contact Information | 219  


About Munster Technological University

Whatever your plans and talents MTU has a course of study for you. We offer the full range of higher education qualifications, including bachelor degrees and honours bachelor degrees, as well as postgraduate master and PhD degrees. There is a flexible “ladder” system in place, which, in many cases, allows you to progress from one award to the next. MTU also has a varied part-time and evening programme, one of the largest at third level in the country.

MTU has six principal campuses

• MTU Bishopstown Campus situated in the suburbs of Cork city
• MTU Kerry North Campus situated in Tralee, Co. Kerry
• MTU Kerry South Campus situated in Tralee, Co. Kerry
• MTU Cork School of Music situated in Cork city
• MTU Crawford College of Art & Design situated in Cork city
• National Maritime College of Ireland situated in Ringaskiddy, Cork Harbour
The MTU Bishopstown Campus is situated in the western suburbs of Cork city. Leisureworld Sports Centre, which includes both a 25m and an 18m swimming pool, is right next door. Just a few minutes walk away are the suburbs of Bishopstown and Wilton with shops, restaurants and sports facilities. The city centre is just a short bus ride away. The Student Centre is the main focus for student activity and leisure. It has all the services you could hope for, such as a common room, restaurant, meeting rooms, supermarket, and various student services.

The MTU Bishopstown Campus is the main Cork Campus and offers courses in business, science, computer science, engineering, media communications, and humanities. Also located here are student services, administration, research centres, and industry support centres.

The Rubicon Centre is a business incubation centre for young graduates. It provides a supportive on-campus environment for start-up businesses. The Information Technology Centre consists of computer laboratories, seminar rooms and open access computer stations for hundreds of students. All these computers are fully networked and online.

The library, located in the Berkeley Centre on the MTU Bishopstown campus, is currently one of the most modern and technologically enriched academic libraries in the country. In a total area of 2,600sqm, the library provides more than 600 study spaces, more than 70,000 volumes along with subscriptions to a comprehensive collection of journal titles. The library provides access to a wide collection of print, electronic and audio-visual resources appropriate to all subjects taught in the University. Electronic resources are available off campus 24/7 and other useful resources available from the library include bookable group study hubs, exam papers, careers section, subject guides, WiFi, computers, printers, copiers, and of course, the library staff who are happy to support and advise students.
MTU Kerry North Campus

MTU Kerry North Campus is home to students pursuing qualifications in business, engineering, science, computing, creative media, event management, nursing, childcare, social care, and health and leisure. It operates on a shared site with Kerry Technology Park. This proximity has enabled the development of links with a range of cutting-edge start-ups, global companies and internationally recognised research centres. Companies operating from the Technology Park provide work placement opportunities for students and work opportunities for graduates. In fact, 25% of those working in the Technology Park are MTU graduates.
The Kerry North Campus is home to the Kerry Sports Academy. This €19m building provides exceptional facilities, which are universally accessible by people of all abilities.

The Sólás nursing centre is a purpose built, state of the art facility, which offers classrooms, meeting rooms, lecture theatres, conference facilities, boardroom, computer laboratories, nursing clinical skills suites and nursing interpersonal skills suites. The fully equipped nursing clinical skills suites are designed to provide a simulated clinical learning environment. The student nurse can learn the clinical skills of nursing through communicating and interacting with peers and experienced facilitators in a safe, non-threatening and friendly setting.

MTU Kerry South Campus is home to the School of Science, Technology, Engineering and Mathematics. In addition to classrooms and auditoria, it also offers a range of mechanical workshops, agricultural engineering garages and civil and construction engineering laboratories.

South Campus also offers a range of biological and pharmaceutical laboratory facilities. Construction will commence shortly on a brand new STEM facility on the MTU Kerry North Campus. On completion, all MTU students studying in Kerry will be located on the North Campus.

The library service at MTU Kerry campus provides study and research facilities on both the North and South campuses. The library service provides support and access to all of the information and resources which you will need. These include:

- access to more than 30,000 volumes, plus subscriptions to more than 100 periodicals and journals
- an extensive collection of electronic resources, including e-journals and e-books
- flexible learning spaces - quiet study areas, a large group study room and project meeting rooms
- computer areas with access to internet-enabled PCs
- wireless internet access and laptop connectivity throughout each library
- reading rooms with PCs and wireless access for laptops
- user education room for information literacy classes
- assistive technology room with hardware and software suitable for students with disabilities, including students with specific learning difficulties
- fully-equipped audio-visual room
- industry, business and community groups are also encouraged to avail of our library facilities.
MTU Cork School of Music (MTU CSM)
http://csm.mtu.ie

MTU Cork School of Music is a constituent school of MTU, located at Union Quay, Cork city, and provides honours degree programmes in music, theatre & drama, musical theatre, and popular music. The School also has a wide range of masters and PhD degrees. MTU CSM provides the internationally renowned staff of Ireland’s largest conservatory of music and drama with the very best of facilities to ensure that many more students are able to pursue their studies.
MTU CSM has many award-winning bands, chamber music ensembles, choirs, drama groups, opera groups, and orchestras – with the senior ones undertaking extensive national and international tours, broadcasting, and making commercial recordings.

Founded in 1878, the Cork School of Music was the first Municipal School of Music to be established in Ireland and the United Kingdom. It was the first institution in the State to offer a Music Teaching Diploma course embracing academic, pedagogic and practical training. The musical life of Ireland is rich and varied, and nowhere more so than in Cork. The staff and students of MTU CSM play a pivotal role in this life through performances and their involvement with musical organisations not only in the city, but also regionally, nationally and internationally. The greatest asset of MTU CSM is its large and distinguished staff that includes many highly qualified and experienced teachers who are also performers of national and international standing. Many opportunities exist for students to attend a wide variety of performances.

**Facilities**

A purpose-built home for MTU CSM provides nearly 13,000sq.m. of state-of-the-art facilities. This was supplied by means of a Public Private Partnership (Department of Education & Science & Hochtief PPP Solutions). It includes:

• 60 teaching/practice studios (equipped with a fleet of Steinway grand pianos)
• 380-seater auditorium
• 120-seater drama theatre
• Movement room & changing facilities
• Professional 48-track, digital HD recording studio
• Electronic music studio
• Piano labs
• Audio lab
• MusicIT lab
• Double bass studio
• Early music (organ & harpsichord) studio
• Harp studio
• Percussion studio
• Postgraduate centre

With an inspirational ground-floor atrium that appears to flow up the entire building through two huge natural light shafts, and with acoustic, temperature and humidity controls provided throughout the building, these facilities are without parallel. One of the distinguishing features of MTU CSM is that music is music, and the genres of classical, Irish traditional, jazz, and popular are treated with equal respect and opportunity.

Another important distinguishing feature is the range and quality of ensemble music making opportunities that are available to students. Performing in public is a vital ingredient of any musical training and MTU CSM provides many platforms, both formal and informal, for its students.

In addition to a wide variety of chamber music groups, the MTU CSM’s bands (including jazz), choirs, drama groups, Irish traditional music groups, opera studio, and orchestras have strong international as well as national reputations for their extensive profiles, achievements and standards.

MTU CSM has a proud tradition of producing professional singers, for example, Majella Cullagh, Mary Hegarty, Bridget Knowles, Paul McNamara, Cara O’Sullivan, Kelley Lonergan (Petcu), Molly Lynch, Muirgen O’Mahony, and Finbarr Wright. As well as individual vocal lessons, students can participate in an opera workshop, small vocal ensembles, and avail of specialist language classes. MTU CSM choirs range from a Junior and Senior children’s choirs and a Youth Choir to the Fleischmann Choir – a large mixed-voice choir which performs and broadcasts the large-scale works for chorus with orchestra, and tours annually both within Ireland and abroad. MTU CSM also boasts an equal-voice choir of full-time students, Cappella Lyrica.

String players move through Preparatory, Junior, Intermediate and Senior orchestras to the CSM Symphony Orchestra that performs the literature for full orchestra. Wind and percussion players move through Elementary and Intermediate bands to the CSM Symphonic Wind Band, which plays important wind ensemble repertoire. In recent years, the CSMSO has committed itself to providing a series of rehearse-record sessions for composers studying in MTU CSM that have provided great encouragement and developmental support. In addition, MTU CSM supports specialist Baroque & Classical orchestral ensembles for those interested in historical performance practice and a Contemporary Music Group. Chamber music ensembles are a prominent feature of the MTU CSM, and the Drama staff foster a range of drama groups. Students benefit greatly from the residencies of artists-in-residence such as Barry Douglas and Ash Soan. The School has state-of-the-art digital technology to provide a unique resource for recording as well as music and technology studies.

**Postgraduate Programmes**

MTU CSM offers the following postgraduate programmes:

• MA in Music – Performance
• MA in Music & Technology
• MSc in Music & Technology
• Music by research
MTU Crawford College of Art and Design (MTU CCAD)

http://crawford.mtu.ie

MTU Crawford College of Art and Design – the Crawford is a vibrant multi-campus College, which has been providing education in the arts for more than 100 years. Crawford graduates are among Ireland’s top artists, curators, designers, communicators, digital media practitioners, art therapists, and art educators. The Crawford is a diverse, dynamic and creative community exploring art, design, technology, culture, visual arts education and media through theory, research, as well as independent practice.

Whatever your creative aspirations the Crawford can support you on the journey to your future career. In addition to a range of careers in the creative and cultural industries, our graduates apply the skills acquired in their art and design education to a wide variety of jobs in all sectors, where their ability to think both laterally and critically, their powers of analysis, their exceptional team-working and communication skills, and their problem-solving attitudes are all highly valued by employers.

The College comprises three distinct departments:

**The Department of Fine Art & Applied Art** offering programmes in Fine Art (painting, sculpture, print, photography, film, video, mixed media and installation) and Contemporary Applied Art (Ceramics, Glass & Textiles), along with a suite of evening classes. Based in Cork city centre on the Sharman Crawford Street campus and at 46 Grand Parade.

**The Department of Media Communications** offering programmes in Visual Communications, Creative Digital Media, TV Production, E-learning, Journalism and Digital Content Creation, and Public Relations with New Media, is based on the MTU Bishopstown Campus, Cork. The BA (Hons) in Photography with New Media is taught at the Envision Centre, which is a repurposed city centre campus of the Crawford at Sober Lane, adjacent to Sullivan’s Quay.

**The Department of Arts in Health & Education** offering postgraduate programmes in Art Therapy, Art and Design Education and Arts and Engagement, along with a number of short courses, is based in Cork city centre, on the Grand Parade.
Facilities at the Crawford include lecture rooms, library, studios, and personal work-areas for students. There are well equipped workshops and laboratories for an extensive range of specialist areas.

**Fine Art and Contemporary Applied Art (Ceramics, Glass, Textiles)**
The BA (Honours) in Fine Art, and the BA (Honours) in Contemporary Applied Art (Ceramics, Glass, Textiles) are based on our Sharman Crawford Street campus in Cork’s city centre with easy access to vibrant art institutions and arts scene. Both programmes provide studio based education, with an emphasis on instilling individualism and independence. Facilities include individual studio space with access to well-equipped workshops including drawing studio, media-labs, photography studio, digital imaging lab and/or traditional darkrooms, print studios, textiles, glass, ceramics, metal, and wood fabrication alongside lecture theatres.

**Creative Digital Media, Photography with New Media, and Visual Communications**
The BA (Honours) in Creative Digital Media, BA (Honours) in Photography with New Media, and the BA (Honours) in Visual Communications are offered by the Department of Media Communications. These programmes maintain close links with industry ensuring that courses are targeted to ‘real world’ needs and that graduates are both highly educated and eminently employable. Facilities include computer labs, photographic/video production space, design/drawing studios and lecture rooms. There is also a print workshop and digital print facilities available to the students. All labs consist of up-to-date industry standard computer hardware and software.

**Postgraduate Programmes**
The Crawford offers an extensive range of postgraduate programmes

- Professional Master of Education (Art and Design)
- MA in Art Therapy
- MA in Arts and Engagement
- MA in Art & Process
- MA in Journalism and Digital Content Creation
- MA in Public Relations with New Media
- MA in E-learning Design and Development
- MA by Research
- PhD

**International Links**
The College has strong connection with partners in China, USA, South Africa, Singapore, Vietnam, and Europe. The College actively participates in the ERASMUS student mobility programme in Germany, the Netherlands, Portugal, Italy, Estonia, Hungary, Romania, Czech Republic, France, Spain, Austria, and Finland.

---

Succeeding Together
National Maritime College of Ireland (NMCI)
www.nmci.ie

The NMCI is a purpose-built College on a 10 acre campus and is located 18km from Cork city in Ringaskiddy. It provides training and education for the Merchant Shipping Industry, and the non-military needs of the Irish Naval Service. The NMCI provides education and training services of the highest quality and includes degree programmes in Nautical Science, Marine Engineering, Marine Electrotechnology, and Logistics.
Specialist spaces including survival facilities, seamanship workshop, fire-fighting/damage control, jetty and lifeboat facilities and ship engine room are provided. The College also provides state of the art simulation equipment in the areas of navigation, bridge training, communications, engineering machinery operations, liquid cargo handling/damage control and vessel traffic systems. These facilities fully comply with the most up to date international standards and requirements.

**General Facilities**

As well as the specialist areas mentioned above, other facilities within the College include:
- Cafeteria
- Library
- Computing facilities
- Sports hall
- All-weather pitch
- Gym
- A variety of clubs including rugby and soccer

**Careers at Sea**

Life at sea has always appealed to people who want to combine travel with a challenging career offering exciting future prospects within the associated marine industries. This is a life for those who relish the challenge of working at sea and want travel internationally.

Ships carry over 95% of world trade and seaborne traffic is forecast to increase significantly. This is generating a great demand for high-quality personnel to manage and operate today’s technically sophisticated ships. Apart from seagoing, the maritime industry also involves shipbuilding and ship repair, marine equipment companies, port surveying, administration services, insurance, and law.

This major industry is looking for capable and enthusiastic people who are ready for responsibility and hard work, and who enjoy using the latest technology. You will become a key member of a highly qualified team, whether on a giant supertanker, a container ship, a cross-channel ferry, a cruise liner, a specialised vessel servicing the offshore oil and gas industry or on a cargo ship. Initially you will work at a technical operational level in a teamwork environment. You will have the opportunity to progress to senior management levels in the shipping industry by completing further courses. Your qualifications will enable you to progress to masters’ degrees for shore-based employment. Seagoing and shore-based opportunities at a senior level in management, marine and administration and many other marine related areas are plentiful and experienced marine personnel are always sought for such positions.

**Student Life**

Students are at the heart of any college and NMCI is no different. Due to the nature of life at sea, our students come from very diverse backgrounds and have a very broad age profile. Most come directly from second level schools and colleges, however, many are seasoned seafarers returning to gain further qualifications so that they can advance in their careers at sea.

**Student Accommodation**

Student accommodation is available locally. Please email the MTU accommodation office for details accommodationCork@mtu.ie

NMCI students registered with MTU are entitled to avail of facilities and sports clubs on the Bishoptown Campus.
Fees and Grants

Third level undergraduate student fees are made up of the following two main elements

1. Student Contribution Charge - €3,000
2. Tuition Fees – see below

1. Student Contribution Charge
The Student Contribution Charge is an annual fee which is set by the Government for full-time third level students. The fee for 2021/2022 is €3,000.

2. Tuition Fees
Many EU undergraduate students attending publicly funded third-level courses do not have to pay tuition fees. Under the terms of the Free Fees Initiative, the Government will pay these fees to the colleges instead.

Students undertaking a second undergraduate course, non-EU students, students studying by Accumulation of Credits and Certification of Subjects (ACCS) mode, and students taking a year of a course for a second time (i.e. repeating a year/level) may be liable for tuition fees. Further details on all tuition fees applicable are available on www.studentfinance.ie

Additional Fees

Union of Students in Ireland (USI) Levy (MTU Cork only)
The USI membership levy of €7.00 applies to all full-time undergraduate students and must be paid in September before the start of Semester 1. This levy is not covered by a SUSI grant.

Student Capitation Fee (MTU Kerry only)
In November 2019, the students of MTU Kerry Campuses voted in a plebiscite to accept a €95 annual charge for membership of the Kerry Sports Academy. This fee is payable by all students in the MTU Kerry Campuses and is not covered by SUSI. The fee must be paid by the student before they start their programme of study.

Payment Options
When you have accepted your MTU course offer, information will be communicated to you regarding online payment using visa/credit cards.

Withdrawing from a Course
Should you wish to withdraw from your course at any stage during the academic year you must ensure that you inform the Admissions Office directly as it may impact on your fees should you return to MTU or another third level institute in the future.

MTU Cork Campus
T: +353 (0)21 433 5138
E: admissionsCork@mtu.ie

MTU Kerry Campus
T. +353 (0)66 719 1722
E. admissionsKerry@mtu.ie

Student Grant – SUSI
Students can apply to the Student Universal Support Ireland (SUSI) for a grant which, if approved, may cover 100% of the Student Contribution Charge. The application system opens in April each year so students should apply early. You do not need to know what course or college you will be attending when submitting your application.

SUSI Support Desk
E: support@susi.ie
T: 0761 08 7874
W: https://susi.ie

Opening Hours
Excluding public holidays
Monday to Friday
(9.00am – 5.30pm)

International Students’ Fees
International/Non-EU nationals attending full time undergraduate courses must pay tuition fees. Information about tuition fees for undergraduate courses is available from the International Office.

MTU Cork Campus
E: internationalCork@mtu.ie

MTU Kerry Campus
E: internationalKerry@mtu.ie

Contact Fees Information

MTU Cork Campus
Accounts/Course Fees
T: +353 (0)21 433 5440
E: feesCork@mtu.ie

MTU Kerry Campus
Accounts/Course Fees
T: +353 (0)66 714 5656
E: feesKerry@mtu.ie
You could be eligible for one of the many scholarships offered at MTU. These scholarships reward excellence and encourage outstanding performance in a variety of fields. They are provided in recognition of academic or sporting excellence. Eligibility criteria vary, as do the closing dates that apply, check the information available online on each individual scholarship for application requirements and closing dates.

**MTU Sports Scholarships**
To underline its commitment to sport, MTU annually awards sports scholarships to a wide range of sports. Those awarded scholarships will have high levels of achievement in their chosen sport and a full involvement and participation in this sport at the University.

MTU looks forward to helping each athlete achieve even more during their time in University and beyond. MTU places a very high value on the twin principles of participation and excellence in sport. The Sports Scholarships honour our outstanding athletes across the full range of sporting activities. These young women and men stand out as superb role models for our student body.

**Academic Scholarships**
Depending on your course of study, a number of academic scholarships are also available - details are included on the relevant course pages.

**1916 Student Bursary**
The purpose of the 1916 Student Bursary is to encourage participation and success by students from sections of society that are significantly under-represented in higher education due to socio-economic disadvantage. It is open to first year registered students at MTU. Further information and full eligibility criteria is available online at MTU.ie

- Value: €5,000 per year
- Duration: for the full course
- How to apply: applications are online only at MTU.ie

**Sanctuary Scholarships for Asylum Seeker and Refugee Students**
MTU, in partnership with Tomar Trust, grants four Sanctuary Scholarships to asylum seeker and refugee students wishing to pursue an undergraduate degree. Successful applicants will have their non-EU fees waived, and in some situations, will also receive additional financial assistance. Applications close in early June each year. Please check the website MTU.ie for further details.
Student Services

The objective of student services is to create a caring and supportive environment, one in which all students are supported and empowered to reach their personal and academic potential.

The student support services team delivers the necessary support to allow you to pursue your academic programmes and career goals, regardless of your starting point. The team, who you’ll meet at orientation on your first day, provides advice and guidance on the range of issues that you may encounter during your time at the University.

**Academic Learning Centre**
The Academic Learning Centre on the MTU Cork Campus provides free academic support to students who may need a little extra help in relation to certain modules or topics. It is open to all students on the MTU Cork Campus.

**Access and Disability Service**
The Access service promotes access to third-level education at the University, particularly for groups who are currently under-represented in the student population: adult/mature students, students with disabilities, dyslexia or any other recognised learning difficulty or learning difference, Travellers, minority groups and students facing social and economic barriers. More information is available on the Access Service section of this prospectus.

**Arts Office**
The role of MTU Arts Office is to work with students and staff in developing and supporting arts related projects and to promote arts activities in all campuses. MTU offers students a wonderful opportunity to engage with and develop their talents, meet new people and get involved in the arts. Students have an opportunity to develop their interests in the arts by getting involved in the various arts activities organised throughout the year by the Arts Office, and by joining arts related societies.

**Careers Service**
Our dedicated Careers Service offers career guidance and advice to help you manage your own career development. We are committed to supporting students and recent graduates in developing and implementing successful career plans and facilitating the recruitment process for students and employers. Engage with us through a series of seminars, events and workshops designed to enhance your personal, professional and employability skills. Avail of one-to-one career consultations and connect with employers via presentations and careers fairs.

**Chaplaincy**
The MTU chaplaincy operates an open-door policy and welcomes all students regardless of religious background. Chaplaincy is not just about solving problems; it’s also about creating an atmosphere to facilitate personal growth. It’s about friendship, bringing people together and breaking down the barriers that sometimes separate us. It’s about giving people the confidence to discover their real worth and dignity, and harnessing human skills and talents for the good of the wider community. Above all, it’s about service, care and helping you to make the most of your opportunities at third-level.

**Counselling**
MTU provides a confidential counselling service across all campuses to support you during times of need. Playing a vital role in the University’s commitment to creating a caring and friendly environment, the service offers both individual counselling and group workshops, and is available to all students on a voluntary basis. Through our counselling service – which is available to students of all campuses – you get the opportunity to talk about and explore issues that are of concern to you, in an environment that is safe and non-judgemental. Counselling sets out to enable the students who use the service to become more effective and resourceful in their academic, social and personal lives.

**Health/Medical Centres**
All registered MTU students will have access to one of the MTU Medical Centres which provide consultations with the Doctors and Nurses by appointment. The nursing service is available free of charge to all students. The doctor’s services are free to all students who hold a medical card, a fee of €10 is payable for all other student.

**Library**
The MTU library and information resource services will support you throughout your studies helping you to access expert support and guidance from their professional staff, an extensive collection of volumes and electronic resources such as e-journals and e-books. As a new student, the library staff are there to help you. If you need assistance finding a book or have any information request or other query about services in the library, then you can always ask a member of library staff. Staff are always available at the main library desk to offer help and assistance or you can contact us by phone or e-mail.

**Students’ Union**
The MTU Students’ Union (SU) provides the focus for a wide range of student activities. In addition to organising entertainment and events, it provides representation for students at all times, on and off campus. The SU also gives welfare and education advice. The union officers, all of whom are elected by students, make sure that your voice is heard throughout the University.
Accommodation

One of the most important aspects of life as a student is finding a suitable place to live most appropriate to their needs. Students should remember when choosing a place to stay that this will be your home for the academic year. It is very important that you view the property if possible and read any contracts/leases before you secure the room with a deposit.

The 3 types of accommodation are:

1. Purpose Built Student Apartments (Privately Owned Companies)
2. Shared Houses/Apartments
3. Digs/Living with the Owner of the Property

While every effort is made to facilitate students seeking accommodation, the University is not involved in any agreement/contracts entered into between students and landlords.
Sports

Sport is an integral part of student life in MTU and it greatly enhances the student experience through its vibrant club scene, excellent sports facilities and vast array of opportunities to get involved in physical activity.

MTU Sport offers a wide range of sports clubs which cater for both competitive and recreational sport. At MTU we promote a policy of ‘Sport for All’ and our sports facilities are available to all students, from casual participants looking for fitness and fun to elite competitors aiming for national and international success. We organise and coordinate a range of fitness classes, physical activity and health initiatives throughout the academic year such as step challenges, fun runs, indoor cycling, Pilates, and bootcamp to name a few.

With over 37 clubs each in both Cork and Kerry campuses, excellent facilities and an extensive programme of physical activity and fitness classes, there is something for everyone. If you are keen to get fit, enhance your student experience, meet new friends with similar interests, enjoy new experiences or represent MTU in Intervarsity competitions then be sure to sign up and get involved.

MTU participates at the highest level of intervarsity competition and is a member of Student Sport Ireland (SSI). SSI is recognised by Sport Ireland & Sport Northern Ireland as the governing body for third level sport on the island of Ireland. SSI’s vision is to work in partnership to enhance student health and well-being through increasing participation in sport and physical activity in third level colleges in Ireland.

The MTU Sports Programme is launched in the early days of the first semester. All students are encouraged to sign up for the sport/club(s) of their choice at this time. However, it is possible to get involved at any time throughout the year. Remember involvement in sport provides you with many opportunities to meet new friends, develop new skills, travel, and generally contributes to academic and personal development while creating an enriched and dynamic student experience.

Remember Get Active & Get Involved!

MTU Ladies Football Club members
Sports Facilities

MTU Bishopstown Campus, Cork

MTU Bishopstown campus excellently prepared sports grounds and facilities play host to numerous competitions including primary and secondary schools’ matches, the Rebel Run, the Cork City Sports International Athletics Meet, the Christmas day ‘GOAL Mile’ and the Cork Primary Schools Sports Day. MTU Bishopstown campus provides training facilities for a number of teams including the Cork GAA teams from juvenile to senior levels, and Cork City Soccer.

The sports facilities can be easily accessed in less than 5 minutes no matter where you are located on campus.

The facilities include:
• A 1,200 seat fully-covered stadium that houses a two-tier elite gym, meeting/studio room, doctor’s room, and 8 dressing rooms that complement a floodlit sand based multipurpose pitch
• A multipurpose sports hall incorporating a state-of-the-art gym and weights room. The gym may be used by all full-time students
• Synthetic international standard athletics 8 lane track with full track and field facilities. Includes a 1,080-seat stand, results and administration centre, dressing rooms, and indoor 5 lane 60m track with an Olympic size long jump pit
• A fully equipped strength and conditioning gym that houses a 625sqm gym area, dressing rooms, and offices
• Three soccer pitches
• Two rugby pitches
• Two GAA pitches
• A walking/jogging track encompassing the campus
• Floodlit astro-turf pitches

In June 2019, construction commenced on our new €22 million MTU Arena which includes a large multi-function hall incorporating two basketball courts with seating 400 people, a gym and studio rooms, and will be another major boost to our sports facilities.

Leisureworld, near the MTU Bishopstown Campus, has 3 swimming pools. A further multipurpose sports hall, astro-turf, gym, and swimming, diving and sailing facilities are available at the NMCI.

Contact
• Sports officers E: miriam.deasy@mtu.ie and norma.buckley@mtu.ie
• GAA development officer E: keith.ricken@mtu.ie
• Soccer facilitator E: eric.marah@mtu.ie
• Athletics development officer E: craig.harrington@mtu.ie
• Rugby development officer E: brian.scott@services.mtu.ie
• Sports administrators E: sportcork@mtu.ie
• Gym supervisor and instructors E: gymcork@mtu.ie

T: 021 433 5767
E: sportcork@mtu.ie
1st Floor, Student Centre, Bishopstown Campus

MTU Kerry Campus

MTU Kerry campus sports facilities are available to all students and are located on our North Campus. The University’s new €19m Sports Academy opened in 2019. The Sports Academy is an 8,400sqm, universally accessible facility and is the largest sports capital project ever to have been undertaken in Kerry.

Facilities on campus include:
• An international sized indoor sports arena that incorporates: 3 parallel basketball courts, 1 centred basketball championship court with surround seating, 9 badminton courts, 2 futsal courts, 3 volleyball courts, 3 indoor soccer courts. It also comprises of a viewing gallery for approximately 100 spectators. The arena can transform into a 1,500+ seated indoor conference area.
• A 700 sqm. state of the art gym and high performance gym containing 30 pieces of Matrix cardio equipment, weight stations, lifting platforms with squat racks, free weights and area for body weight exercises, stretching & mobility work.
• A hydrotherapy suite which includes a 12m x 6m hydrotherapy pool with water heated to 32°C – 34°C degrees, a fully accessible changing village, individual changing cubicles, and shower areas/toilet areas.
• Aerobics and dance studios
• Performance arena
• Laboratory/fitness testing facilities
• Floodlit all weather synthetic pitches
• Floodlit GAA pitch
• Grass running track
• Dry, outdoor and wet changing areas
• Extensive walking & jogging routes

We also use many facilities in the locality to support our extensive sports programmes and also make the most of the many wonderful natural amenities presented by our coastal location.

Contact
• Sports Officer E: jennifer.healy@mtu.ie
• GAA Games Development Administrator E: gaa.officer@services.mtu.ie
• Soccer Development Officer E: soccerkerry@services.mtu.ie
• Rugby Development Officer E: RugbyKerry@services.mtu.ie

T: 066 714 5644
E: kerrysportsacademy@mtu.ie
W107 & W108, Kerry Sports Academy
Sports Scholarships

To underline its commitment to sport, MTU awards Sports Scholarships annually in a wide range of sports. It is expected that those awarded a scholarship will have high levels of achievement in their chosen sport and full involvement and participation in this sport at the University.

MTU looks forward to helping each athlete achieve even more during their time in University and beyond. MTU places a very high value on the twin principles of participation and excellence in sport. The Sports Scholarships honour our outstanding athletes across the full range of sporting activities. These young women and men stand out as superb role models for our student body.

Please contact the sports office in MTU Bishopstown Campus, Cork or MTU Kerry campus directly.
1. MTU canoe club members enjoying a weekly outing.
2. MTU hurlers in action with UCD.
3. MTU soccer team celebrating cup success.
4. MTU students Clodagh & Katie Walsh representing the Irish Universities team.
Enrolling in our University means more than just academic learning. It can be a fun experience with lots of opportunities to broaden your horizons. Join a society to give yourself the opportunity to learn new skills and meet new people.

The diversity of MTU societies means that practically every taste is catered for. Grab the opportunity to experience something new or pursue an interest you have always wanted to explore. Why not get involved in the Dance, Esport or Anime & Manga Society. Get to know more people with similar interests and expand your network across courses by getting involved in your Academic Society.

MTU Societies are some of the best societies in Ireland frequently winning at the BICS (Board of Irish College Societies) National Awards. Students who are at the heart of running societies have achieved the honour of winning national ‘Society of the Year’, ‘Most Improved Society’, ‘Best Event’ as well as individual awards.
How to Join a Society

You can join a society for free and online.

Joining a society means you will receive direct communication from the committee with updates on upcoming meetings and activities. You can join as many societies as you like – connect through their social media accounts on Facebook, Instagram and Twitter. Many societies also have online discord communities.

Connect with Societies – Cork

During the academic year 2020/2021 there were 30 Societies that operated online – running over 400 activities and meetings. Don’t miss the opportunity to learn new skills, make lasting friendships and have fun!

Contact societies officer Aoife Kelliher by email aoife.kelliher@mtu.ie or DM on social media.

For up to date information, find us on social media MTUCorksocieties on Facebook and Instagram.

Connect with Societies – Kerry

Societies Officer Kevin Ross is on campus five days a week for all your day to day society needs and information on events and activities. If you prefer the personal touch, call to the societies office for a chat, the door is always open.

Contact Kevin at M: 087 406 7655; Ext/Red Phones: 1782 or by email societies.officer@services.mtu.ie

For up to date information, find us on social media MTUKerrysocieties on Facebook and Instagram.

Volunteer Abroad

Each year the societies office has been proud to support students who have chosen to experience volunteering abroad during the summer break. MTU provides financial support to students who wish to undertake a number of weeks volunteering abroad. This has allowed students to make a difference around the world including Kolkata, Guatemala, South Africa, Nepal, Ecuador, Mozambique, and the Philippines.

Many of the volunteers address issues focused around the Sustainable Development Goals (SDGs), which aim to achieve a better and more sustainable future for all. The SDGs address the global challenges we face, including poverty, inequality, climate change, environmental degradation, peace, and justice.

Society Committees

Enhance your skills in organising events, activities and managing finance. Be part of the student team that coordinates and organises a society activity. To be elected as a society committee officer is a huge bonus for your CV by providing an opportunity to develop your communication and team work skills.

Each society holds an AGM (Annual General Meeting) at which a committee is elected. Any student can run for election. The organising committee usually includes a chairperson, secretary, treasurer and many have specific roles for 1st year reps. Societies are completely student run, which empowers the student committee for planning and running activities they choose.

Join a Society – Cork

**Academic:** Civil & Structural Engineering, Marketing, Mechanical & Biomedical

**Activities:** Yoga

**Interest:** Airsoft, Anime & Manga, Art, Cyber Security, Esport, Fashion, Photography, Programming, Pool & Board Games, Sci-Fi

**Community:** Christian Union, Enactus, Energy and Environmental, Indian, International Students, Islamic, Korean, LGBT*, MEAS (Mature Students, Mental and Emotional Awareness Society), WiSTEM

**Music & Arts:** 3D Design, Comedy, Dance, DJ, Glór Choir, Musical, Trad

Join a Society – Kerry

**Academic:** Nursing & Agricultural Society, Enterprise, Events.

**Activities:** Yoga, Zumba, Meditation & Wellbeing, Sign Language Classes.

**Interest:** SPARK (Mental Health Awareness Society), Manga Anime & Games, Art, Esport, Fashion, Photography, Sci-Fi, Cinema.

**Community:** International Students, LGBT*, Mature Students Society, St. Vincent de Paul.

**Music & Arts:** Radio (BANG FM), Music, Art
Access Service

The Access service promotes access to MTU for groups who are under-represented in higher education. This includes students with disabilities, students who are experiencing social and economic barriers to access, mature students, Travellers and minority groups. The University offers a range of support programmes to promote access:

- Mature Student Orientation and Transition programme
- Financial guidance and support through the Student Assistance Fund
- 1916 Student Bursaries
- Traveller access support
- Star Pupil Traveller Access to Education Programme
- Disability needs assessment and supports
- The Higher Education Access Route (HEAR)
- The Disability Access Route to Education (DARE)

MTU aims to ensure that students with disabilities/learning difference can engage as fully as possible in their chosen courses of study. The University cultivates an environment where students are comfortable to disclose their disability/learning difference and offers these students the opportunity to have their needs assessed to identify any reasonable accommodation and/or other supports that may be required to facilitate them on their academic journey.

Students with learning difference include students with dyslexia; dyscalculia; dyspraxia (DCD); Asperger’s syndrome/ASD; borderline mild general learning difficulty; speech and language disorder; ADD/ADHD; acquired brain injury (ABI) or any other condition impacting on cognitive functioning.

Students with disabilities include students with physical, sensory, mental health, and serious ongoing illness. For school leavers, visit www.accesscollege.ie for information on DARE.

MTU Cork Campus
E: dsscork@mtu.ie

MTU Kerry Campus
E: supportservicesKerry@mtu.ie

Students with Physical or Sensory Disabilities, Mental Health or Significant Health Conditions

The University is committed to supporting your progress through your studies and is continually working to enhance the services and facilities available. Please make contact with the Access Office to discuss your specific needs.

Traveller Access Programme

MTU is proud to have members of the Traveller community on the Access team. The Access team support all members of the Traveller community who are interested in applying to the University. This is a confidential service which offers guidance and support on-campus and in the community. Support is available to mature learners, second-level school and PLC students and any member of the Traveller community. Help is available to choose your course and complete your application forms, and that help will continue through your studies if needed. We meet MTU students every year who identify as Travellers. Our graduates from the Traveller community are working in the careers that they have studied.

MTU welcomes applications from members of the Traveller community and we strongly advise applicants to contact the Access Service to avail of support and guidance with the application process.

We work proactively with young Traveller students in post-primary schools providing information, guidance and support. This includes the Star Pupil Traveller Access to Education Programme in Kerry (see Admissions section) and the Mentoring Initiative and Art Programme in Cork.
**Ethnic Minority**

In addition to the aforementioned Access Programmes and the University’s Student Support Services, specific support is available to Access students from ethnic minority groups who experience significant language barriers to participating in their academic programme of study.

MTU, in partnership with Tomar Trust, grants 4 Sanctuary Scholarships to asylum seeker and refugee students wishing to pursue an undergraduate degree. Successful applicants will have their non-EU fees waived, and in some situations, will also receive additional financial assistance. Applications close in early June each year. Please check the website for further details.

**Linked Schools Programme**

The Access Service Linked Schools Programme works in partnership with school staff, local communities, MTU staff, and students from primary and second level schools to support greater participation by students from our linked schools. The Linked Schools Programme works with 27 selected Schools in the Cork/Kerry region.

Academic, personal or social supports are provided for eligible candidates who transfer from Access Linked Schools into MTU.

**MTU Cork Campus**
E: linkedschoolsCork@mtu.ie

**MTU Kerry Campus**
E: accessKerry@mtu.ie

**Mature Students Returning to Education**

MTU welcomes students from all backgrounds. We value the contribution that you make and we welcome applications from mature students to all of our courses.

In this era of lifelong learning, we are committed to providing flexible and accessible learning opportunities, and are continually putting supports and services in place to assist you in your studies.

You are a mature student if you are aged 23 years or over on 1st January on the year of entry. In order to encourage participation, mature students are not required to have a Leaving Certificate. Each mature student is considered on an individual basis; this may include an aptitude test, written assessment or interview.

**How do I Choose a Course?**

Attending a third-level course is a major commitment, and choosing the right course will require some groundwork. Think about the subjects that you like, and the ones you don’t like. Which courses interest you? Being interested in the course is a vital ingredient in driving your motivation to study.

• What’s the best way to develop your strengths and talents through learning?
• Does the course require a background in certain subjects?
• Are there specific entry requirements?
• Before applying for a place, get as much information as you can about the course
• Talk to current students or graduates about the subjects and courses which interest you
• Take the time to build your word processing, email, file manager and internet browsing skills before term starts
• Support from family and friends before you start can be a big help
• Find out how many hours a week are spent in class
• Explore any fees and grants that may apply to you
• Find out how much study is required every week

We recommend attending Open Days and any other opportunities to visit the campus. Check our website for upcoming events.

**The Mature Student Orientation**

As part of our commitment to supporting your academic, personal and professional progress, mature students are invited to attend an orientation programme in late August/early September specifically designed for incoming mature students. You will be introduced to mature student supports at orientation.

**What are my Study Options?**

Courses at the University are offered online, full-time, or on a part-time basis. Details of full-time programmes are provided in this prospectus. Some of our courses are structured to allow you to move through the higher certificate, bachelor degree, honours bachelor degree, masters and PhD (doctorate) degree ladder system.

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**Application Process**

Most of our full-time first year courses are offered through the CAO. The purpose of the CAO is to process applications for admission to the first year of undergraduate courses in institutions in the Republic of Ireland, and to do so in an efficient and fair manner. Application forms are completed online at www.cao.ie.

**The Central Applications Office**
Tower House
Eglinton Street
Galway
T: +353 (0)91 509 800
F: +353 (0)91 562 344
www.cao.ie
The National Framework of Qualifications

Established in 2003, the Irish National Framework of Qualifications (NFQ) is a 10-level, single national entity through which all learning achievements may be measured and related to each other. Underpinned by quality assurance principles, the Irish NFQ describes qualifications in the Irish education and training system and sets out what each qualification says about what learners know, understand and are able to do. It also sets out qualifications pathways from one NFQ level to the next.

Quality and Qualifications Ireland (QQI) is responsible for developing, promoting and maintaining the Irish NFQ. QQI also facilitates the recognition of foreign qualifications. Quality and Qualifications Ireland (QQI) is responsible for the external quality assurance of further and higher education and training. QQI is also responsible for the maintenance, development and review of the National Framework of Qualifications (NFQ).

Throughout this prospectus, you will see the NFQ level and award type to which a programme leads alongside other related information to help you understand and compare programmes of education and training.

The University offers a wide range of programmes through the CAO system at NFQ levels 6, 7 and 8. In addition, the University offers taught programmes at level 9 (postgraduate diploma or master's degree) and a wide range of postgraduate research programmes at level 9 (master's degree) and level 10 (PhD degree).
MTU has designed its courses in a very flexible way in order to give you the option of graduating at different levels – higher certificate, bachelor degree, honours bachelor degree, and postgraduate degree. This “ladder” system enables you to progress through the system to qualifications appropriate to your personal requirements.

Modularisation & Semesterisation

MTU operates a Credit Based Modular System. This is compliant with the European Credit Transfer System (ECTS). The academic year is divided into two equal halves, and each semester will normally consist of six modules each worth five credits.

What is a Semester?
A semester is half of an academic year. Each semester is of 15 weeks duration for which learners can earn 30 credits. Typically, Semester 1 begins in September and ends in January while semester 2 starts in January and ends in May.

What is a Module?
A module is a standalone unit of learning and assessment and is completed within one semester. A full-time student will normally study six modules in each semester; part-time and ACCS (Accumulation of Credits and Certification of Subjects) students will have flexibility as to the number of modules taken.

What are Credits?
Credits are a measure of the amount of learning within a module. They are awarded to learners who successfully complete the assessments in a module. A full-time year of study is worth 60 credits; this is the European norm under the ECTS system.

MTU’s Progression Ladder

* For many bachelor degree courses, and some honours bachelor degree courses, students who successfully complete year two, and who do not wish to progress to year three, are eligible to receive a higher certificate award.

# For some honours bachelor degree courses, students who successfully complete year three, and who do not wish to progress to year four, are eligible to receive a bachelor degree award. See individual course pages for details.

+ Some honours bachelor degree courses are three years in duration, exit awards are not available from these courses.
Business, Marketing, Management, and Accounting
<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 942</td>
<td>8</td>
<td>Bachelor of Business (Honours) in Accounting</td>
<td>28</td>
</tr>
<tr>
<td>MT 550</td>
<td>7</td>
<td>Business (Common Entry) (BBus/BBus (Hons) Award Options)</td>
<td>29</td>
</tr>
<tr>
<td>MT 941</td>
<td>8</td>
<td>Bachelor of Business (Honours) (Common Entry)</td>
<td>30</td>
</tr>
<tr>
<td>MT 541</td>
<td>7</td>
<td>Bachelor of Business (Common Entry)</td>
<td>31</td>
</tr>
<tr>
<td>MT 551</td>
<td>7</td>
<td>Bachelor of Business in Business Administration</td>
<td>32</td>
</tr>
<tr>
<td>MT 944</td>
<td>8</td>
<td>Bachelor of Business (Honours) in Information Systems</td>
<td>33</td>
</tr>
<tr>
<td>MT 946</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Global Business and Pilot Studies</td>
<td>34</td>
</tr>
<tr>
<td>MT 945</td>
<td>8</td>
<td>Bachelor of Business (Honours) in International Business with Language</td>
<td>35</td>
</tr>
<tr>
<td>MT 943</td>
<td>8</td>
<td>Bachelor of Business (Honours) in Marketing</td>
<td>36</td>
</tr>
</tbody>
</table>
Accounting (Honours)
Cuntasásaíocht (Onóracha)

Application: CAO
CAO Code: MT 942
NFQ Level: 8
Award Title: Bachelor of Business (Honours) in Accounting
Duration: 4 Years (8 Semesters)
Places: 50
Location: MTU Bishopstown Campus, Cork

Overview
The accounting function provides timely, relevant and accurate information to the management of the business. This information is also used to assess the financial ‘health’ of the business and to make plans for the future. Accountants are involved in making many decisions necessary for the efficient operation of a business. Therefore, a well-run accounting function is critically important to the long-term management of a business.

This four year honours degree programme offers an advanced specialist education in accounting; providing a firm base for either further academic study, a career in business or for the pursuit of a professional qualification with one of the accounting bodies. MTU offers accounting students the benefit of small class sizes initially which assists with a smoother transition from second level. MTU accounting lecturers have professional qualifications and relevant industry experience.

Further Studies
Graduates with excellent exemptions from the professional accountancy bodies can enter industry or practice (i.e. work for an accounting practice). Suitably qualified graduates may apply to the MTU Master of Science in Applied Accounting which is offered on a part-time study mode basis. Graduates of this MSc programme will have one further year of training with their employer, after which they will be eligible to apply for membership of CPA Ireland.

Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time
Is there work placement?
Formal work placement (minimum of 15 weeks) is an integral element of the course and takes place in year 3.

What do I need to do after qualifying in MT 942 to become an accountant?
After attaining your BBus (Honours) in Accounting, you need to fulfil the additional requirements of the accountancy body with which you wish to qualify. This typically requires 3 to 3½ years relevant work experience in conjunction with additional professional examinations.

Will I receive exemptions from the main professional bodies?
Yes. The BBus (Honours) in Accounting currently has excellent exemptions for Chartered Accountants Ireland, Chartered Institute of Management Accountants, Association of Chartered Certified Accountants, and Certified Public Accountants. These exemptions ensure that our graduates can minimise the number of exams necessary to qualify as an accountant after completing this honours degree.

If I did not study Accounting at Leaving Certificate level, can I study MT 942 Accounting?
Yes. You do not have to have studied accounting for Leaving Certificate as all modules in year 1 assume no prior knowledge of content.

What career options are available other than a professional accountant?
Accountancy is a relevant background for any career in business. Many leading CEOs have an accountancy qualification. Accounting graduates can work in management, finance, insurance, banking, risk and compliance, project management, management consultancy, teaching and lecturing.

Contact Information
Syliva Dempsey
T: +353 (0)21 433 5134
E: sylvia.dempsey@mtu.ie

Career Opportunities
Graduates from MTU accounting programmes secure employment within accountancy practices and also as accountants in industry. Prior graduates have secured training positions with “Big 4” accountancy firms (PwC, KPMG, EY, and Deloitte), and with medium and small accountancy firms. Industry employers include Apple, Dell Technologies, Dairygold, Kerry Group, Quintas, Musgrave Group, South Western Services (SWS), Financial Control Outsourcing Services (FCOS), PepsiCo, Bank of New York Mellon, and State Street Bank.

- Accountant in practice
- Accountant in industry
- Banking/Finance
- Business analyst
- Management consultant
- Purchasing & procurement
- Self employed/entrepreneur
- Supply chain analyst
- Teaching and lecturing

First Year at a Glance

- Financial Accounting: preparing accounts for business
- Cost & Management Accounting: understanding accounting for decision making
- Economics: understanding how people use resources
- Law: understanding the legal system and how it affects business in Ireland
- Exploring the role of a manager in business
- Understanding the role of marketing for a company
- Learning to work with computerised accounts software, e.g. Sage
Business (Common Entry)
Gnó (Iontráil Chomónta)

Application: CAO
CAO Code: MT 550
NFQ Level: 7

Award Title: Depends on specialisation. Choose from:
- Bachelor of Business
- Bachelor of Business in Marketing
- Bachelor of Business (Honours) in Accounting

Duration: 3/4 Years (depends on specialisation)
Places: Course size: 200 / Class size: 50
Location: MTU Bishopstown Campus, Cork

Overview
If you would like to undertake and engage in an extensive range of business disciplines, with the opportunity and flexibility to choose a specialism such as business (general) or accounting or marketing, you should apply for MT 550.

Students applying under MT 550 share a common first year and then choose their preferred degree at the end of year 2. This gives students the opportunity to study a wide variety of business modules before deciding which stream they wish to pursue. Students can choose from the following degree programmes (formal work placement, minimum of 15 weeks, is an integral element of the course and takes place in year 3):

1. Bachelor of Business (Level 7)
   This business programme provides the knowledge and skills necessary to contribute effectively within a business and management setting and is designed to provide a solid foundation for success in a wide variety of business career options.

2. Bachelor of Business in Marketing (Level 7)
   The marketing programme focuses on the concepts, theory, processes and techniques of marketing necessary to function in a marketing environment, sales or customer service roles with particular emphasis on the skills required within the digital economy.

3. Bachelor of Business (Honours) in Accounting (Level 8)
   The accounting programme focuses on the specialist education and training necessary to enable graduates to gain employment in an accounting/financial capacity in any business sector. At the end of year 1, students can choose the accounting stream. On successful completion of year 2, students will transfer to year 3 of the Bachelor of Business (Honours) in Accounting (Level 8) programme.

Further Studies
Subject to availability of places and specialisation, suitably qualified Level 7 graduates are eligible to apply for entry to year 4 (final year) of:
- Bachelor of Business (Honours) in Accounting
- Bachelor of Business (Honours) in Marketing

The Bachelor of Business (Level 8) satisfies the degree requirements of the Teaching Council. A postgraduate programme of initial teacher education, accredited by the Teaching Council, consisting of two years full-time study or 120 ECTS credits must subsequently be completed to be eligible for registration with the Teaching Council.

Question Time
What is the advantage of doing the Common Entry degree?
If you would enjoy exploring a broad range of business topics, with the opportunity to choose a business specialism such as business, or accounting or marketing at a later stage, you should apply for MT 550. If, however, you are confident that accounting or marketing is your preference, you should consider applying for the relevant Level 7 course. The Bachelor of Business (Level 8) satisfies the degree requirements of the Teaching Council.

First Year at a Glance
No, however, students who pursue French as an elective in year 1 are expected to have completed a French course at Leaving Certificate level.

Will I be at a disadvantage if I did not study business or accounting in the Leaving Certificate?
No, the core fundamentals of accounting and business are delivered in year 1.

Contact Information
Trudie Murray
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MINIMUM LEAVING CERTIFICATE REQUIREMENTS

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<th>SUBJECTS</th>
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<th>MATHS</th>
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Score the necessary CAO points and meet minimum Leaving Certificate requirements 5 subjects

www.mtu.ie/MT550
**Career Opportunities**

Former graduates have secured employment with a wide range of employers including Kerry Group, Dell, Microsoft, Pricewaterhouse Coopers, Berlitz, GlaxoSmithKline, KPMG, European Central Bank, Novartis, Deloitte and EY.

With the broad range of subjects studied during the programme, career opportunities are very varied. Graduates are working in the following areas:

- Accounting
- Financial services
- Sales and marketing executive
- Brand management
- Marketing research specialist
- Public relations
- Digital marketing management
- Teaching/lecturing
- Supply chain management
- Human resource management
- Retail management

**Accreditation**

Our degrees are accredited by relevant professional bodies. For example, if you complete a Level 8 Bachelor of Business (Honours) in Accounting, you will gain maximum exemptions for the Association of Chartered Certified Accountants (ACCA) professional accounting qualification. If you complete the Level 8 Bachelor of Business (Honours) in Marketing, you are eligible to sit the Marketing Institute of Ireland (MII) Qualified Marketer examination.

**Contact Information**

Ray O’Connor Desmond  
T: +353 (0)66 719 1659  
E: ray.oconnordesmond@mtu.ie
Business (Common Entry)  
Gnó (Iontráil Chomónta)

Application: CAO  
CAO Code: MT 541  
NFQ Level: 7  
Award Title: Depends on specialisation. Choose from:  
• Bachelor of Business in Marketing  
• Bachelor of Business in Management  
• Bachelor of Business in Accounting  
Duration: 3 Years (6 Semesters)  
Places: 40  
Location: MTU Kerry North Campus

**Overview**
The Bachelor of Business course is designed to give a clearly structured business education that provides a solid foundation for a successful career. You will gain a thorough grounding in the principles and practice of accounting and finance, marketing (including digital media and social media marketing), management, creative problem solving and information technology. During first year students will study common modules, as they progress into second year they will be offered a choice of specialisms (choose 1):

• Marketing  
• Accounting  
• Management

Studying at MTU Kerry Campus means plugging into a rich culture of entrepreneurship, giving you access to a range of highly successful businesses at the on-site Kerry Technology Park. The international reach of the department is seen in the network of over 100 partner institutions across the EU, Canada, China and further afield, giving our students the option of studying abroad during the programme.

**Further Studies**
Depending on the specialism choice at the end of first year, suitably qualified Level 7 graduates are eligible to progress to year 4 (final year) of:
• Bachelor of Business (Honours) in Marketing  
or  
• Bachelor of Business (Honours) in Accounting  
or  
• Bachelor of Business (Honours) in Management  

**Question Time**
Will I be at a disadvantage if I did not study business or accounting in the Leaving Certificate?
No, the core fundamentals of accounting and business are delivered in year 1 and all modules in year 1 assume no prior knowledge of content.

**Contact Information**
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**Score the Necessary CAO Points and Meet Minimum Leaving Certificate Requirements**

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*A grade of F2 or above in foundation level Maths fulfils the Maths entry requirements for this programme.

**Career Opportunities**
With the broad range of subjects studied during the programme, career opportunities are very varied. Past graduates are working in the following areas:

• Accounting technician  
• Financial services  
• Business administration  
• Sales and selling  
• Public relations  
• Digital marketing  
• Social media marketing  
• Supply chain specialist  
• Retailing  
• Human resource management

**First Year at a Glance**

• Introduction to Management: offers students an introduction to business management ideas and concepts  
• Principles of Accounting: gives students an ability to understand the fundamental concepts of recording financial information and the preparation of final accounts  
• Foundations of Marketing: provides students with their first introduction to the subject of marketing. The value of this important business practice is explained throughout this course  
• Communication: promotes both verbal and written effective communication in an academic and professional context.  
• Microeconomics: introduces students to the effects and actions of consumers and firms on the economy  
• Behavioural Science: gives students an appreciation for the rationale behind a variety of human resource management concepts

www.mtu.ie/MT541
Overview

Business administration incorporates many types of management positions. From major corporations to independent businesses, every operation needs highly skilled administrators in order to succeed. The programme provides students with a unique blend of technical and business skills that are required for the organisation and management of business tasks. This is a practical, skills-focused programme, exposing students to the most up-to-date technologies that businesses are using.

The programme aims to provide students with the technologies and practices which are essential to a modern organisational environment. Students will have the opportunity to learn a wide range of fundamental skills including; document presentation, desktop publishing, spreadsheets, accounting, marketing, management, human resource management (HRM), web design, management information systems, public relations, digital marketing, social media, project management, supply chain management, and more.

In year 3, students undertake a minimum fifteen week work placement/internship. Students will have the benefit of an academic mentor from MTU and a mentor in the workplace. Feedback from students and our industry partners has been very positive to date. In many cases, students have secured full-time employment as a result of the placement.

Further Studies

Graduates who achieve the specified level of academic performance are eligible to apply for entry to the one year add-on:

- BBus (Honours) in Business Administration (Level 8)
- BBus (Honours) in Business (Level 8)

Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

The Bachelor of Business Honours degree (Level 8) satisfies the degree requirements of the Teaching Council. A postgraduate programme of Initial Teacher Education, accredited by the Teaching Council, consisting of two years full-time study or 120 ECTS credits must subsequently be completed to be eligible for registration with the Teaching Council.

Question Time

Are there language recommendations for the programme?

If taking French as an elective in year 1, students are expected to have Leaving Certificate French. Languages German and Spanish are at beginner level.

What are the typical student numbers in first year?

First year course/class size is approximately 65. Computer lab groups are a maximum of 20.

How much Information Technology (IT) is involved in the programme?

Over a third of the programme modules are focused on developing IT skills and working with business related software packages.

Career Opportunities

Business Administration graduates have gone onto pursue a wide variety of careers in areas such as administration, human resource management, marketing, supply chain management, IT, financial and shared services, banking, insurance, media, customer service, health service, local authorities, and fund services.

- Business analytics
- Key account manager
- Customer relationship management
- Human resource management
- Supply chain management
- Digital marketing
- Financial services

First Year at a Glance

- Introduction to web design, search engine optimisation (SEO) and website maintenance along with IT applications including document production and the use of other MS Office applications
- Students’ ability to summarise information and deliver individual and team presentations to live audiences is developed
- Students will significantly enhance their IT skills throughout each year of the programme, along with learning in areas such as management, marketing, and accounting, in preparation for their internship in year 3

Contact Information

Mary Oldham
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Business Information Systems (Honours)
Córais Faisnéise Gnó (Onórac)h

Application: CAO
CAO Code: MT 944
NFQ Level: 8
Award Title: Bachelor of Business (Honours) in Information Systems
Duration: 4 Years (8 Semesters)
Places: 100
Location: MTU Bishopstown Campus, Cork

Overview
Business Information Systems is a comprehensive blend of business and technology subjects that equips students with the skills and knowledge required to develop, manage and use information technology systems and solutions in a variety of business environments. This will include a knowledge of management; digital marketing; financial and management accounting; information communication; technology strategy; computer applications; enterprise resource planning systems; systems integration; legal studies; entrepreneurship; international business; project management; systems analysis; design and development; big data; business analytics, and cloud computing.

The aim of the honours degree is to educate and train students in a wide range of business and information systems skills. The course is assessed by end of module examination and through a significant amount of continuous assessment and project work throughout the four years. The programme represents 50% business and 50% technology knowledge.

In year 3, students will have the option to complete a work placement (minimum of 15 weeks) in an IT related role in business. It will involve a set of agreed objectives for your placement, as well as the assistance of a supervisor on site and a member of the academic staff at MTU.

Further Studies
Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time
What level of proficiency with computers do you need?
Subjects are taught at an introductory level in year 1.

What kind of programming is involved?
Programming is an important skill to have in the area of business information systems. HTML, CSS, Python, C#, and PHP are some of the exciting and useful programming languages that you will be working on.

What information technology (IT) topics are involved?
IT topics covered on the course include systems analysis and design, database design and management, computer networks, information systems project management, web applications development, and enterprise systems. Students will study big data, business analytics alongside ethics and privacy.

Graduates will have an in-depth knowledge of information systems theory, principles, processes and techniques pertaining to the design, development, implementation, maintenance and support of an information system, meeting appropriate standards and regulations.

Contact Information
Martin Connolly
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E: martin.connolly@mtu.ie

Career Opportunities
The graduate develops a large range of skills and abilities which may lead to employment in diverse jobs/areas such as business analytics roles; systems analyst; project manager; management consultant; systems administrator; webmaster; business analyst; customer relationship management; management accountant; purchasing and supply chain management; logistics; business development manager; enterprise systems manager; operations management; financial analyst; marketing and market research across a large variety of industries, including manufacturing, food processing, software, as well as banking and financial services.

• IT consultant
• Business analyst
• IT developer
• Project manager
• IT support
• Business analytics

First Year at a Glance

• Introduction to basic programming
• Understanding the role of the manager and the business environment in which they work
• An insight into how information systems support business
• An introduction to marketing and the world of digital marketing
• Small computer lab classes where you will learn word processing, spreadsheets, presentations and databases
• Understand how computers communicate with each other

www.mtu.ie/MT944
Overview
This is an ab-initio programme that provides embedded pilot training as part of a level 8 degree. This programme will see students study on campus for one year, undertake pilot training for a further two years, and then complete the final year of study online while working.

For prospective pilots, the ability to complete flight training together with an honours degree provides the student with a unique opportunity to take a blended approach to becoming a professional pilot.

The benefit of being able to experience life on campus enables students to develop social and interpersonal skills. The final year of the programme affords students the opportunity to complete their third level studies whilst working as a pilot through the delivery of exclusively online lectures tailored for actively working aviation professionals.

Further Studies
Graduates of this Level 8 degree may be eligible to apply for postgraduate programmes at MTU.

- MA in Global Business Practice
- MSc in International Business
- MSc in Digital Marketing Strategy
- MBA in Strategy
- Master & PhD by research

Question Time
Do I need to attend classes in Cork?
Classes for year 1 are completed on the MTU Bishopstown Campus, Cork. Years 2 & 3 will be completed at AFTA, Cork Airport. Year 4 is delivered online.

Is this award internationally recognised?
Yes. All MTU awards are mapped to the National Framework of Qualifications which in turn is mapped to the European Framework for Qualifications. This allows for mutual recognition and through that, world-wide validity. Both NFQ and EFQ are legislation-based entities.

Upon completion of studies at AFTA, each cadet will have attained a fATPL, consisting of a Commercial Pilot’s Licence (CPL), Multi-Engine Instrument Rating (MEIR), will have completed an APS MCC course, and an UPRT training.

Is the programme mainly focused on aviation?
The key benefit of this programme is undertaking a programme that trains you as a pilot while also developing your business skills. Years 1 and 4 are mainly business and years 2 and 3 are mainly aviation.

When I commence flight training at AFTA, am I still considered a MTU student?
Yes, enrolled students will be registered MTU students throughout the programme. This will confer access to all of MTU’s facilities.

Contact Information
Dr Pio Fenton
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E: aviation@mtu.ie

Career Opportunities
This pathway enables students to gain a broad understanding of international business while undertaking their training to become a pilot. Decision making and teamwork skills are enhanced during these stages which lend themselves to increasing the abilities of the student and creating a better equipped pilot. The competencies developed during this programme will help put students in a position whereby they can progress their professional aviation careers (as pilots) in an industry that is multi-faceted and where transferable skills are invaluable.

First Year at a Glance
- Develop an understanding of global business issues – as many Irish businesses and multinational companies trade internationally, this skill is in strong demand
- Find out more about marketing, management, and culture. Culture is an essential element of this programme as it broadens your insight into the wider world
- Build your teamwork and interpersonal skills by complementing your knowledge with strong interpersonal skills
- Develop some skills and knowledge that may be useful in undertaking your flight training
International Business with Language (Honours)
Gnó Idirnáisiúnta mar aon le Teanga (Onóracha)

Application: CAO
CAO Code: MT 945
NFQ Level: 8
Award Title: Bachelor of Business (Honours) in International Business with Language
Duration: 4 Years (8 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

Overview
This programme is geared at meeting the skills shortage that has been identified for roles in businesses operating in various international environments. This may relate to business development, project management, supply chain management and other areas. Students will develop a broad understanding of business issues with an international perspective, while also studying a language of their choice. Topics such as culture, management, negotiation, trade, law, and much more underpin the programme.

In year 3, students will undertake a mandatory semester abroad in a country where the language they are learning is spoken widely. The programme has been designed to ensure that students have a wide range of opportunities upon completion. The semester abroad gives the student the opportunity to develop language skills and to develop a broader understanding of international cultures. While on semester abroad, some students will seek placement, which MTU will recognise, while others will seek to study for the semester. Where a student pursues a placement they do so under their own responsibility but with CV, interview and career guidance from MTU.

This programme has been revised recently to ensure that students have more opportunity to specialise through a broader range of modules on offer and through enhanced elective choices.

Further Studies
Graduates may apply to professional bodies and may be exempt from certain examinations. Suitably qualified graduates are eligible to apply for postgraduate degrees at MTU:
- MSc in Marketing Practice
- MA in Global Business Practice
- MA in Human Resource Management
- MSc in Digital Marketing Strategy
- MBA in Strategy
- MBus (by Research)
- PhD

Career Opportunities
Graduates may pursue careers in a wide number of areas including business development, management, international marketing, multi-territory sales, new product development, logistics management, customer relationship management, international project management, trade promotion and development, services marketing and a wide variety of roles where a second European language is valued.

- International business development
- International sales management
- Project and operations management
- Logistics associate/manager
- Supply chain manager/associate
- Global project coordinator
- International fundraising manager
- Global human resources officer
- Innovation specialist

Employers value employees who have lived abroad and we find that this is reflected in success for graduates of this programme at interviews.

First Year at a Glance
- Develop an understanding of global business issues – as many Irish businesses and multinational companies trade internationally, this skill is in strong demand
- Find out more about marketing, management, and culture. Culture is an essential element of this programme as it broadens your insight into the wider world
- Build your teamwork and interpersonal skills by complementing your knowledge with strong interpersonal skills
- Further your knowledge of a language of your choice (French, Spanish, or German) and commence your journey to having a very strong business level proficiency after 4 years
Marketing (Honours)
Margaíocht (Onóracha)

Application: CAO
CAO Code: MT 943
NFO Level: 8
Award Title: Bachelor of Business (Honours) in Marketing
Duration: 4 Years (8 Semesters)
Places: 100
Location: MTU Bishopstown Campus, Cork

Overview
Marketing is essential to modern day business. It is the process of identifying, anticipating and satisfying customer requirements profitably.

In year 1, students cover a range of business topics and will explore how the digital world has had an impact on marketing. Skills that are developed include selling skills and information technology (IT). Throughout both semesters there is an emphasis on communication and some general business topics.

In year 2, students delve further into various areas of marketing with particular focus on customers and how they can be understood. Emphasis is placed on digital marketing with further attention paid to areas like, market research, retail marketing and content creation.

In year 3, students undertake a variety of modules to develop their knowledge of marketing. Throughout this semester, students experience live-case assessments where students work on real world problems for companies.

Students will have the opportunity to participate in industrial placement (minimum of 15 weeks) with roles in various companies available. Students will be prepared for placement and will focus on digital and social media marketing as well as other areas.

Year 4, the final year of the course, has a strategic focus. This includes emphasis on strategy, finance and PR. Other topics covered include marketing metrics and sales strategy. Brand Management is a mandatory module and elective modules include Social Marketing, Fashion Marketing and Sports Marketing, Aviation & Tourism Marketing and Sustainable Business are also offered as electives.

Further Studies
Graduates may apply to professional bodies and may be exempt from certain examinations. Suitably qualified graduates are eligible to apply for postgraduate degrees at MTU:
- MA in Global Business Practice
- MA in Public Relations with New Media
- MSc in Digital Marketing Strategy
- MSc in Marketing Practice
- MBA in Strategy
- MBus (by Research)
- PhD

Question Time
I am interested in Marketing, should I choose Level 7 MT 550 or Level 8 MT 943? If you would like a broad range of business topics, with the opportunity to choose a business specialism such as marketing, business, or accounting, you should apply for Level 7 MT 550 Business (Common Entry). Please visit www.mtu.ie/MT550 for more information.

If, however, you are confident that Marketing is your preference, you should consider applying for Level 8 MT 943 which specialises in this area from year 1.

If I am not doing any of the recommended subjects in the Leaving Certificate, can I still apply for this course? Yes, the core fundamentals are delivered in year 1 and we assume that students have not taken these subjects.

Contact Information
Dr Pio Fenton
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E: pio.fenton@mtu.ie

www.mtu.ie/MT943

Career Opportunities
Graduates have a broad range of careers available to them. Advertising, promotion, digital marketing, social media development, sales management, direct marketing, event management, reputation management, services marketing, and international sales and management are all areas where our graduates have found solid career opportunities.

First Year at a Glance
- Learn the basic principles of marketing
- Develop skills around selling and sales
- Find out how marketing can help a business
- Explore how social media and the digital environment are changing business
- Learn a language: French, Spanish or German (optional)
- Discover how people in business think, act and view the world and the kind of competencies, character traits and behaviours they rely on

Score the necessary CAO points and meet minimum Leaving Certificate Requirements

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6 SUBJECTS

Entry 2022

SCORE THE NECESSARY CAO POINTS AND MEET MINIMUM LEAVING CERTIFICATE REQUIREMENTS

6 SUBJECTS
Culinary Arts, Hospitality, and Tourism
<table>
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<tr>
<td>MT 553</td>
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<td>Bachelor of Business in Beverage Industry Management</td>
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<td>MT 555</td>
<td>7</td>
<td>Bachelor of Business in Culinary Arts</td>
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<td>MT 655</td>
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<td>Higher Certificate in Arts in Culinary Studies</td>
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<td>MT 940</td>
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<td>Bachelor of Arts (Honours) in Event Management</td>
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<td>MT 556</td>
<td>7</td>
<td>Bachelor of Arts in Food Business Innovation</td>
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<td>MT 654</td>
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<td>Higher Certificate in Arts in Hospitality Studies</td>
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<td>MT 947</td>
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Overview

The Bachelor of Business in Beverage Industry Management course develops the student’s knowledge of the concepts and processes that are essential for sound managerial practice in the area, along with imparting operational skills in areas such as drinks service and stylish food preparation and service. Recent changes in the industry have led to the development of modules in brewing and distillation with separate certification from the Institute of Brewing and Distilling.

The work placement is a core aspect of the course and allows the student the opportunity to apply the knowledge, insight and skills gained in class to the workplace under the guidance of an experienced industry professional and is supported by the University.

The course is taught in a modern building, which is one of the finest tourism and hospitality buildings in Europe and includes a stylish training bar, a demonstration theatre, training restaurants, IT labs and well equipped classrooms. In addition, students have easy access to the wider University facilities such as an excellent library, IT facilities, sports and recreation facilities, and other student supports including a wide array of clubs and societies to suit every student’s interests and tastes.

Strong practical content in early years of study, along with our graduates’ broad range of knowledge, skills and competencies, have meant that they are a candidate of choice for a variety of organisations and many have gone on to become entrepreneurs, owning their own successful business.

Further Studies

Suitably qualified graduates are eligible to apply for entry to the one year add-on • Bachelor of Business (Honours) in Hospitality Management

Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time

What level of business is incorporated into the course?
The course blends the skills of business management approximately 50/50 with the skills and knowledge needed for beverage industry management. Business skills attained during the course complement career options and improve the future prospects of graduates.

Should I have experience in bar work in advance of applying for this course?
Some experience in the licensed trade is an ideal preparation for undertaking a career in beverage industry management, however, this is not a requirement for entry to this course.

Contact Information

Gail Cotter
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E: gail.cotter@mtu.ie

Further Studies

Suitably qualified graduates are eligible to apply for entry to the one year add-on • Bachelor of Business (Honours) in Hospitality Management

Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time

What level of business is incorporated into the course?
The course blends the skills of business management approximately 50/50 with the skills and knowledge needed for beverage industry management. Business skills attained during the course complement career options and improve the future prospects of graduates.

Should I have experience in bar work in advance of applying for this course?
Some experience in the licensed trade is an ideal preparation for undertaking a career in beverage industry management, however, this is not a requirement for entry to this course.

Contact Information

Gail Cotter
T: +353 (0)21 433 5835
E: gail.cotter@mtu.ie

Career Opportunities

Graduates will find that there are opportunities to use their knowledge both in Ireland and abroad. This degree offers students the opportunity to acquire appropriate managerial skills and techniques that will enable them to be effective and efficient in beverage industry management and related areas such as retail and the food and entertainment industries.

• Bar management
• Bar training & education
• Wine retailing and sommelier
• Hotel, restaurant, catering management
• Stock control
• Club management
• Entrepreneurship/bar business ownership
• Brewing industry

First Year at a Glance

• The theory and practice of bar operations and associated legislation
• Learn about food preparation and service as suitable for licensed premises
• Introduction to information technology (IT)
• Wine appreciation and its service
• Learn about the business side of pubs and other licensed premises
• Develop the personal skills and attributes to manage effectively
Culinary Arts
Ealaíona Cócaireachta

Application: CAO
CAO Code: MT 555
NFQ Level: 7
Award Title: Bachelor of Business in Culinary Arts
Duration: 3 Years (6 Semesters)
Places: 32
Location: MTU Bishopstown Campus, Cork

Overview
The culinary arts make a significant contribution to the worldwide hospitality and tourism industries. The key aim is to develop a well-educated graduate with the ability to learn and adapt to meet new challenges in both their education and professional development. We have a strong emphasis on student centred learning, using methods which include formal lectures, tutorials, visiting lecturers, site visits, and both individual and team project work.

Students study modules such as Culinary Arts Principles, Larder & International Cuisine, Food Safety, Creativity, IT, Management, Kitchen Design, Wine Appreciation, Operations and Business subjects. The work placement is an intrinsic part of the programme in terms of developing the students understanding of the organisation and its procedures, as it gives experience in a real-life setting. It is supported by a staff member, who works with a workplace mentor, to ensure that each student achieves their maximum potential.

The Tourism and Hospitality building is one of the foremost in the country and includes modern production kitchens, IT laboratories, a demonstration theatre, training restaurants, training bar and fully equipped classrooms.

In the past, students under the guidance of an experienced academic staff member, have won prestigious titles such as the “Knorr Chef of the Year”, TV3’s “Head Chef”, and the “Dunhill Cuisine Award for Best Commercial Food Product”. With their tutors’ guidance, students also regularly compete in competitions such as AEHT, CATEX, and Eurotoque and have successfully won prizes in all of these competitions.

Further Studies
Suitably qualified graduates are eligible to apply for entry to the one year add-on
• Bachelor of Business (Honours) in Culinary Entrepreneurship
or
• Bachelor of Business (Honours) in Hospitality Management

Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time
What is the difference between Culinary Arts and Culinary Studies?
Culinary Arts provides a broad range of learning which combines the skills of business management with the skills of culinary activity. This provides an ideal combination of skills for the successful operation of many food related business enterprises.

Culinary Studies is a course more specifically designed for those who aspire to be chefs and it therefore focuses on the key skills required by chefs at all kitchen levels, in larger or smaller operations.

How long is the work placement?
There is a mandatory work placement over the entire summer at the end of year 1.

Is it possible to open your own business with this qualification?
Quite a number of graduates have opened their own businesses such as restaurants or food service companies, or have gone on to develop and produce a food product for retail sales.

Contact Information
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Career Opportunities
Graduates work in a range of diverse organisations of the food sector, ranging from senior chefs in 5 star hotels, gourmet restaurants, stylish bistro’s catering and events companies and food product companies, along with food education. Many graduates go on to establish their own business. A culinary arts degree provides a wide array of opportunities to work in other countries in both culinary and food related fields.

• Hotels and restaurants
• Food marketing & product development
• Pastry & confectionary
• Training & education
• Food writing & styling
• Culinary manager in the industrial sector

First Year at a Glance
• Culinary Operations, Larder and International Cuisine
• The importance of food safety principles
• Introduction to Information Technology (IT)
• Learn about kitchen design and sustainability
• A knowledge of business calculations in the hospitality sector
• Develop the skills to manage catering and culinary businesses
• Build the skills and knowledge to manage the ‘front of house’ side of restaurants
• Learning about food and the food developed in various cultures
• Industry placement

www.mtu.ie/MT555
Culinary Studies
Staidéar Cócaireachta

Application: CAO
CAO Code: MT 655
NFQ Level: 6
Award Title: Higher Certificate in Arts in Culinary Studies
Duration: 2 Years (4 Semesters)
Places: 64
Location: MTU Bishopstown Campus, Cork

Overview
Culinary studies is a course designed to meet the needs of students who wish to pursue careers as professional chefs. The Higher Certificate in Arts in Culinary Studies is mainly practical in nature and is supported by theory subjects relating to the world of cookery. Approximately 70% of the class time is spent in practical classes and kitchens covering subjects such as cookery techniques, classical and traditional cookery, along with specialist cookery from the Mediterranean, the Orient and other interesting world foods. Pastry, larder, confectionery and buffet work are also explored.

Along with practical classes, formal lectures, guest lectures, site visits, and group projects are also used to ensure students receive a fully rounded study environment. The formal, paid work placement allows the student to put into practice the skills which they have learned while in college and students are awarded academic marks for this important component of their course.

The Tourism and Hospitality building is one of the foremost in the country and includes modern production kitchens, IT laboratories, a demonstration theatre, training restaurants, training bar and fully equipped classrooms. In addition, students have easy access to the wider University facilities such as an excellent library, IT facilities, and sports and recreation facilities.

Administration and support facilities are offered in an environment where students have direct access to an experienced and qualified lecturing team. Students have participated and succeeded in the “Knorr Chef of the Year”, TV3’s “Head Chef” and the “Dunhill Cuisine Award for Best Commercial Food Product”, along with the annual AEHT, Eurotoque, and CATEX competitions.

Further Studies
Suitably qualified graduates can progress to
• Year 2 of the Bachelor of Business in Culinary Arts (Level 7)
and subsequently progress to the one year add-on
• Bachelor of Business (Honours) in Culinary Entrepreneurship
or
• Bachelor of Business (Honours) in Hospitality Management
or
• Year 3 of Bachelor of Arts in Culinary Arts (National Chef de Partie Apprenticeship)
Delivery is based on a 13 week semester with 1 day in college per week in years 3 and 4
and subsequently progress to the
• Bachelor of Arts (Hons) in Culinary Arts (National Sous Chef Apprenticeship)
Delivery is based on a 13 week semester with 1 day in college per week over 2 years

Question Time
What is the difference between culinary arts and culinary studies?
Culinary Studies is the course designed for students who aspire to become a professional chef and it focuses on the key skills required by chefs in all kitchen types, whether a large upmarket hotel kitchen or a smaller specialist restaurant operation.

Culinary arts provides a broad range of learning which combines the skills of business management with the skills of culinary activity. This provides an ideal combination of skills for the successful operation of many food related business enterprises.

When does the work placement occur?
There is a formal structured work placement over the summer at the end of year 1.

Contact Information
John Hartnett
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Career Opportunities
Students will graduate as professional chefs, equipped to embark on exciting careers which will allow them to develop their skills further and to travel extensively if desired.

Our graduates hold exciting positions as head chefs and executive chefs in a wide variety of hotels, restaurants and other food operations. Artisan food production, food product development, health care, food journalism and large scale catering facilities all offer opportunities to graduates for employment. Other graduates have gone on to set up their own successful businesses.

• Hotels ranging from 5 star resorts through to smaller family-run hotels
• Fine-dining restaurants, local speciality restaurants, bistros
• Catering companies
• Event catering
• Gastro pubs and café-delicatessens

First Year at a Glance
• Practical classical cookery techniques including fishmongery and pastry
• Dish development in a nutritional context
• Cost control as it relates to the kitchen
• Develop practical restaurant skills
• Build the full range of skills needed to become a chef
• Learn about the background of food and service of food and the different food environments
• Understand the skills of managing the business of catering
• Industry placement
Overview
The events sector is a vibrant and diverse growth area in Ireland which includes the management of everything from festivals to corporate events and conferences. National and multinational companies now actively seek graduates with event management skills to help showcase their company, products or services.

The BA (Honours) in Event Management is unique, it is the only dedicated three-year level 8 degree in event management in Ireland. It’s also practical, offering hands-on experience, work placement, industry site visits and masterclasses from key figures in the Irish festival and events industry. Formal work placement (minimum of 12 weeks) is an integral element of the course and takes place after semester six.

Your education will take place in County Kerry – a world class visitor destination with premier event venues such as the INEC in Killarney and the Rose of Tralee International Festival, along with many others, on our doorstep. This degree will shape your future - become a leader with excellent communication skills, in-depth industry knowledge and the experience to succeed in a range of exciting career opportunities in a rapidly growing sector both nationally and internationally.

Graduates of this programme will be highly employable and employment opportunities in this sector are increasing nationally and globally and vary considerably. Employers include: specialist event companies and venues; large corporate organisations; the non-profit/charity sector; tourism/cultural events and festivals; sports venues; hotels; government and semi-state agencies; convention bureaus; PR and marketing agencies.

Further Studies
Suitably qualified graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Question Time
Is work placement mandatory?
Yes, all students must undertake a minimum of 12 weeks work placement. The course is structured so that on completion of their classroom-based learning, students embark immediately into the world of work at the peak of the events industry activity during the summer months. This ensures a wide variety of opportunities for students as they commence their careers.

Contact Information
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Career Opportunities
The following are some examples of current event management positions available for graduates
- Event manager
- Event coordinator
- Events executive
- Events administrator
- Conference and events sales executive
- Conference and banqueting coordinator
- Event/wedding coordinator
- Fundraising coordinator

First Year at a Glance
- Event Concepts: an introduction to creativity techniques and design principles to develop event concepts
- Introduction to Events: basic skills required to organise successful events
- Social Media Tools: use of a core web-based platform such as a blog-site and social media platforms to create a unified network on which to create, distribute and market creative output
- Tourism Marketing: understanding the pivotal role played by marketing in today’s competitive travel and tourism industry
- Event Fundraising and Sponsorship: an introduction to the various techniques of fundraising, relevant to the management of successful festivals and events
- Leadership and Team Building: the theory and application of leadership and team building techniques

Application: CAO
CAO Code: MT 940
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Event Management
Duration: 3 Years (6 Semesters)
Places: 25
Location: MTU Kerry North Campus

www.mtu.ie/MT940
Overview
The BA in Food Business Innovation programme prepares students for a career in a variety of dynamic food businesses. The hands-on nature of the programme will develop knowledge and skills which will help graduates play a lead role in the development and management of key sectors within the food industry. The modules on this programme reflect the global nature of the food industry and the vast opportunities it provides at varying levels, from home-grown entrepreneur to global development chef. Practical modules will provide the culinary skills to produce and design food products, coupled with the theoretical modules to provide the innovation and business concepts that will give the student the necessary skills to develop a successful business.

The course will provide the knowledge and skills to promote innovation, develop new products, and foster entrepreneurship with the key skills of branding, distribution and sales, all underlined by sustainability. Students will undertake a work placement in either the hospitality, culinary or tourism sector for 200 hours in year two.

Through practical application, this programme will equip graduates with technical skills, communication, business and presentation skills, which are required and highly valued by the industry. Graduates from the BA in Food Business Innovation programme can pursue employment opportunities in the food sector and non-food sector as the skills acquired are highly transferable.

Further Studies
Suitably qualified graduates are eligible to progress to year 4 (final year)
• BA (Honours) in Culinary Arts

Contact Information
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Career Opportunities
Graduates who successfully complete the programme can seek employment opportunities in
• Food business management
• Food product design and development
• Food retail organisations
• Market and consumer research
• Product sales and marketing
• Entrepreneurship
• Artisan food production
• Food logistics
• Cafés
• Restaurants
• Hotels
• Gastro pubs
• General food service businesses

First Year at a Glance
• Introduction to food preparation and cooking techniques: incorporates food identification and preparation techniques in a practical setting
• Fundamental patisserie skills: the scientific principles and production processes underpinning this discipline.
• Introduction to food science and safety: the importance of food safety and the basic principles of HACCP
• Refining food preparation and cooking techniques: development of core skills, competencies and knowledge in food preparation and cooking techniques required in today’s food production units
• Food production operations: techniques and processes essential to professional volume food production
• Food and nutrition: the principles of food and nutrition and an appreciation of the relationship between food, health and wellbeing

www.mtu.ie/MT556
Home Economics and Business (Honours)
Eacnamaíocht Bhaile agus Gnó (Onóracha)

Application: CAO
CAO Code: MT 930
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Home Economics and Business
Duration: 3 Years (6 Semesters)
Places: 32
Location: MTU Bishopstown Campus, Cork

Overview
This is the only initial teacher education programme in Home Economics offering Business as a second subject option.

The nature of the Home Economics programme is diverse, and requires graduates to gain competencies in a multidisciplinary context. This means graduates will gain expertise and develop skills in culinary arts, biological sciences, textiles and design, consumer studies, family resource management, social studies, architecture, and environmental studies. Through the study of Business, graduates will gain insight and develop skills in management, accounting, economics, human resource management, international business, entrepreneurship, and legal studies.

The design of the programme means the knowledge and skills gained by graduates will encompass discipline knowledge and skills in Home Economics and Business, along with an introduction into education studies. This will provide a solid foundation to develop pedagogical expertise when graduates go on to complete the PME. Graduates from the BA (Hons) in Home Economics and Business who go on to complete the Professional Master of Education, will complete their studies as teaching professionals, critical thinkers and innovators, with a broad worldview.

The module Preliminary School Placement in Home Economics introduces students to the actual teaching of Home Economics in schools through a supported school classroom placement working with an experienced Home Economics teacher. This placement takes place during the second semester of year 3, where students will work with a qualified teacher for a number of class periods in school each week, whilst completing their studies in MTU.

Further Studies
Graduates who achieve a minimum of second class Honours Grade (H2.2) in MTU’s BA (Honours) in Home Economics and Business will automatically be offered a place on the Professional Master of Education (PME) post-primary in the School of Education, University College Cork (UCC) through a ‘protected places pathway’.

Completion of both programmes allows graduates to meet all Teaching Council requirements to teach both Home Economics and Business to Leaving Certificate level in second-level schools in Ireland.

Detailed information about the Professional Master of Education programme is available at https://www.ucc.ie/en/pec01/

Question Time
What subjects can I teach when I finish this honours degree programme?
You are not qualified to teach until you also complete the Professional Master of Education. However, once you complete both the BA (Hons) in Home Economics and Business, and the Professional Master of Education, UCC, you can then teach both Home Economics and Business to Leaving Certificate level. You are also qualified to teach both of these discipline areas at Junior Certificate level.

Would setting up your own business be an option for a graduate of this programme?
Yes – students will have developed core business skills, and there is an emphasis on entrepreneurship in year 3 of the programme. Graduates who decide not to progress to the Professional Master of Education are ideally placed to set up their own business in either product development, or textile design.

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Career Opportunities
This programme was designed between the Department of Tourism & Hospitality, MTU, and the School of Education, UCC, to allow graduates from the BA (Hons) in Home Economics and Business to seamlessly progress to the Professional Master of Education in UCC.

Having successfully completed third year, graduates will have developed highly diversified skills, which can easily be utilised and adapted to other industries. Students will graduate as well-rounded individuals, with discipline expertise in Home Economics and Business, and excellent interpersonal skills, having studied four modules in education. As an example, graduates may wish to embark on a food business related career; such will be their expertise in culinary, food science, nutrition, and business. These graduates will have a unique skillset to work in micro firms, SMEs and multinationals.

First Year at a Glance
• Culinary techniques & food safety
• Biology for home economics
• Household finance & planning
• Family & social change
• Introduction to management
• Introduction to microeconomics
• Human nutrition
• Science of food & health
• Fashion design & industry
• Home design & management
• Business law
• Financial accounting

www.mtu.ie/MT930
Hospitality Management
Bainistíocht Fálteachais

Application: CAO
CAO Code: MT 554
NFQ Level: 7
Award Title: Bachelor of Business in Hospitality Management
Duration: 3 Years (6 Semesters)
Places: 32
Location: MTU Bishopstown Campus, Cork

Overview
The University boasts one of the finest tourism and hospitality buildings in Europe, with state-of-the-art facilities. Our courses combine practical elements of hospitality management with key management skills, knowledge and competencies, in a multicultural classroom environment, providing graduates with the best possible foundation for a future career. Modern demonstration and production kitchens, IT and front office laboratories, a demonstration theatre, training restaurants and bar, and well equipped classrooms are all features of the Tourism and Hospitality Building at MTU.

Administration and support facilities are offered in an environment where students have direct access to an experienced and qualified lecturing team. Formal lectures, tutorials, individual and team project work, guest speakers, industry visits and field trips are all an integral part of the course. A range of elective modules are available so that students can pursue particular topics which interest them.

There is a mandatory work placement of a minimum of 12 weeks between year 1 and year 2 and a 6 month management internship in year 3. Work Placement allows the student to experience hospitality organisations at various grades in Ireland and gives them opportunities to travel abroad for their third year work placement. Cork boasts one of the largest variety of hospitality organisations in the country, allowing students to study in a vibrant city with a strong culture of hospitality. Students who take the opportunity to travel abroad for work placement experience a greater international awareness, and develop the ability to effectively communicate in the global hospitality environment.

Further Studies
Suitably qualified graduates are eligible to apply for entry to one year add-on • Bachelor of Business (Honours) in Hospitality Management (Level 8)
Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time
What are the facilities like for this course in MTU Bishopstown Campus?
The facilities at the Department of Tourism & Hospitality are of the highest European standard. The Department operates to the highest levels of industry recognised hygiene and environmental management requirements.

What are the duties of a Hotel Manager?
Hotel managers combine the role of the business host with the technical skills, including the provision of high quality food, beverage, and accommodation standards along with the skills of successful business management including financial, marketing, human resource, and operational skills.

What other careers could I work in?
Hospitality managers work across a wide range of businesses in the sector including many and varied types of hotels, restaurants and resorts and equally can work in areas such as cruise line operations or indeed start their own business within the sector. There is a wide range of sector specific support businesses for which hotel management provides the ideal background and these can include food & beverage suppliers, equipment suppliers, training specialists, hospitality centred IT companies, and many others.

Can I obtain a higher certificate after two years?
Yes, students who successfully complete year 2 and do not wish to progress to year 3 will receive a Higher Certificate in Business in Hospitality Management.

Career Opportunities
Graduates will specialise in areas of the hospitality business such as food & beverage management, conference & banqueting management or rooms division management. Opportunities may also be available in sales & marketing, human resource management, training & development, event management or financial control. Graduates will aspire to senior general management positions or become involved in entrepreneurial activities and may start their own business.

• Hotel, restaurant, catering and licenced premises management
• Reservations and revenue management
• Conference and event management
• Human resources and training
• Hospitality entrepreneur
• Marketing and sales

First Year at a Glance
• Learn about the theory and practice of food & beverage operations
• Learn about the theory and practice of the rooms division
• Using IT applications
• Explore the structures within the various hospitality businesses
• Managing the business of various hospitality premises such as hotels, restaurants and bars
• Building the personal skills and attributes to be an effective hospitality manager
• Industry placement

www.mtu.ie/MT554
Hospitality Studies
Staidéar Fáilteachais

Application: CAO
CAO Code: MT 654
NFQ Level: 6
Award Title: Higher Certificate in Arts in Hospitality Studies
Duration: 2 Years (4 Semesters)
Places: 25
Location: MTU Bishopstown Campus, Cork

Overview
Hospitality Studies is a broad programme of learning which provides an introduction to all of the operations areas in the hospitality sector. Students get an opportunity to study and practice the areas of restaurant service, bar service operations, front office, rooms division, accommodation, event organisation, introduction to culinary skills, along with a range of business subjects.

The combination of practical skills and theoretical subjects gives the student the opportunity to identify their area of preference in the sector and to subsequently develop a valuable career in their chosen field.

The Higher Certificate in Arts in Hospitality Studies is designed to meet the skills requirements of students who wish to pursue careers within the hospitality sector. Graduates typically work in contact with the customer in hotels, restaurants or bar operations or associated areas such as conferences and events. The strong element of practical learning involved in this course is appealing to many candidates.

Practical classes, formal lectures, guest lectures, site visits and group projects are all used to ensure students receive a fully rounded study environment. A formal work placement over the summer at the end of year 1 allows the student to put into practice the skills which they have learned while in college, under the guidance of an experienced hospitality professional, and students are awarded academic marks for this important component of their course.

The tourism and hospitality buildings are of the best modern standard and include production kitchens, IT laboratories, a demonstration theatre, training restaurants, a training bar, training reception, and fully equipped classrooms.

Further Studies
Suitably qualified graduates can progress to:
• Year 2 of the Bachelor of Business in Hospitality Management
or
• Year 2 of the Bachelor of Business in Beverage Industry Management
and subsequently progress to the one year add-on
• Bachelor of Business (Honours) in Hospitality Management

Question Time
What is the difference between hospitality studies and hospitality management?
Hospitality Studies focuses on the day-to-day operations within the hospitality sector, where positions require a hands-on customer centred focus.

Hospitality management focuses on the successful operation and profitable management of the overall business and its resources.

What are the facilities like for this course in MTU Bishopstown Campus?
The Department is located within its own building on the campus and provides excellent facilities to enhance student learning including a range of kitchens, classrooms, labs and other training facilities.

The work placement sounds exciting. Is it based in Ireland or can you be placed abroad?
The work placement takes place in a quality hospitality establishment in Ireland and it is supported by a Department of Tourism & Hospitality staff member together with a workplace mentor. However, on qualification, graduates possess a skillset which they can use to gain employment in many different roles abroad.

Contact Information
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Career Opportunities
For the student who is prepared to work hard and who brings flair and passion to hospitality, the opportunities are endless. Hotels, restaurants, bars, events and work place catering are all areas which are an ideal career choice for graduates. Many of our graduates travel overseas to gain experience and to enhance their skills or go on to embark on further studies in the area of hospitality.

• Hotels, restaurants, licenced premises
• Accommodation providers
• Catering and events companies
• Specialist functions such as reservations, training and human resources

First Year at a Glance
The course will introduce all front of house areas in hotels, restaurants and bars:
• Gain a knowledge of running the business of hospitality
• Develop your own personal skills and attributes for effective hospitality operations
• The theory and practice of bar operations and service
• The theory and practice of food operations
• Communications for hospitality
• Restaurant service skills
• Industry placement

www.mtu.ie/MT654
Overview
The Bachelor of Business (Honours) in Tourism Management provides students with the expertise and knowledge needed to become a successful manager or entrepreneur in this challenging and exciting industry. This course has a strong emphasis on the broad business, management and marketing subjects complemented with tourism specific modules. Learning is based around class delivered lectures, field trips, practical lab classes, guest speakers, and both group and individual project work.

MTU Bishopstown Campus has an excellent reputation for working in partnership and consultation with the travel and tourism industry. The delivery of certain modules provides the student with the opportunity to engage actively with industry. In the past, projects have been conducted on behalf of Fota Wildlife Park, Kinsale Chamber of Tourism, Blackrock Castle, Spike Island Tourism Development Plan, Clanakilty Chamber of Commerce, Cork City Council, and Cork County Council.

In year 2, there is an elective module where students undertake a relevant five week period or equivalent of work placement in a chosen sector of the tourism industry. The placement is supported by a member of academic staff in conjunction with a supervisor or workplace mentor. The experience gained will enable the student to recognise his/her strengths and weaknesses regarding general competence and an awareness of the process involved in developing a career in the tourism industry.

Further Studies
Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time
Is there a placement as part of this course?
Yes, there is an opportunity for students to engage in placement as part of the course in year 2.

Is it essential to have studied a language before commencing the course?
Having a European language is very useful. In order to study French, you must have successfully completed Leaving Certificate French and in order to study German you must have successfully completed Junior Certificate German. Spanish is taught from an introductory stage.

NB: It should be noted that studying a language is mandatory for year one of the course.

Are there opportunities to work outside the tourism industry?
The course provides the student with a broad range of business and entrepreneurial skills which are transferable to a wide range of service industries, such as finance, retail, education and IT in addition to general marketing and management businesses.

Are there opportunities to travel?
The nature of the tourism industry allows students to take up opportunities abroad and to travel and work overseas. Students are also provided with the opportunity to study for a semester abroad on an Erasmus or international programme in one of MTU’s partner institutions.

Career Opportunities
Graduates have numerous opportunities in this dynamic and exciting tourism industry both nationally and internationally. The range of skills throughout the course includes marketing, management, human resources, a language, social media, IT, communication, and customer services. These allow for the graduate to be flexible in terms of their employment prospects.

- Festival and event management
- Business tourism
- Social media and E-tourism
- Tourism promotion and marketing
- Visitor attractions & activity management
- Destination management organisations
- Travel agencies and tour operations
- Marketing, communications and promotion
- Airports and airlines

First Year at a Glance
- The principles and practice involved in the general business of tourism
- The Irish tourism experience and what the visitor can enjoy
- Tourism geography
- The basic conditions for managing a business operation, with an understanding of economics
- Understanding the motivations and behaviour of the tourist/visitor
- Learn a European language
Tourism Management
Bainistíocht Turasóireachta

Application: CAO
CAO Code: MT 552
NFQ Level: 7
Award Title: Bachelor of Business in Tourism Management
Duration: 3 Years (6 Semesters)
Places: 30
Location: MTU Bishopstown Campus, Cork

Overview
The Bachelor of Business in Tourism Management provides students with the expertise and knowledge needed to become a successful manager or entrepreneur in this challenging and exciting industry. This course has a strong emphasis on the broad business, management and marketing subjects complemented with tourism specific modules. Learning is based around class delivered lectures, field trips, practical lab classes, guest speakers, and both group and individual project work.

MTU Bishopstown Campus has an excellent reputation for working in partnership and consultation with the travel and tourism industry. The delivery of certain modules provides the student with the opportunity to engage actively with industry. In the past, projects have been conducted on behalf of Fota Wildlife Park, Kinsale Chamber of Tourism, Blackrock Castle, Spike Island Tourism Development Plan, Clonakilty Chamber of Commerce, Cork City Council, and Cork County Council.

In year 2, there is an elective module where students undertake a relevant five week period or equivalent of work placement in a chosen sector of the Tourism industry. The placement is supported by a member of academic staff in conjunction with a supervisor or workplace mentor. The experience gained will enable the student to recognise their strengths and weaknesses regarding general competence and an awareness of the process involved in developing a career in the tourism industry.

Further Studies
Suitably qualified graduates are eligible to apply for entry to year 4 (final year) of
• Bachelor of Business (Honours) in Tourism Management
Honours Degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time
Is it essential to study a language on this course?
Having a European language is very useful. In order to study French, you must have successfully completed Leaving Certificate French. In order to study German you must have successfully completed Junior Certificate German. Spanish is taught from an introductory stage.

NB: It should be noted that studying a language is mandatory for year one of the course.

Are there opportunities to work outside the tourism industry?
The programme provides the student with a broad range of business and entrepreneurial skills which are transferable to a wide range of service industries, such as finance, education, retail, and IT in addition to general marketing and management businesses.

Is there a placement as part of this course?
Yes, there is an opportunity for students to engage in placement as part of the course in year 2.

Are there opportunities to travel?
The nature of the tourism industry allows students to take up opportunities abroad and to travel and work overseas. Students are also provided with the opportunity to study for a semester abroad on an Erasmus or international programme in one of MTU’s partner institutions.

Can I obtain a higher certificate after two years?
Yes, students who successfully complete year 2 and do not wish to progress to year 3 will receive a Higher Certificate in Business in Tourism Management.

Contact Information
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Career Opportunities
Graduates have numerous opportunities in this dynamic and exciting tourism industry both nationally and internationally. The range of skills throughout the course includes marketing, management, human resources, a language, social media, IT, communication, and customer services. These allow for the graduate to be flexible in terms of their employment prospects.

• Festival and event management
• Business tourism
• Social media and E-tourism
• Tourism promotion and marketing
• Visitor attractions & activity management
• Destination management organisations
• Travel agencies and tour operations
• Marketing, communications and promotion
• Airports and airlines

First Year at a Glance
• The principles and practice involved in the general business of tourism
• The Irish tourism experience and what the visitor can enjoy
• Tourism geography
• The basic conditions for managing a business operation, with an understanding of economics
• Understanding the motivations and behaviour of the tourist/visitor
• Learn a European language

www.mtu.ie/MT552
Sport, Physical Activity, and Leisure
<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 913</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Coaching and Sports Performance</td>
<td>52</td>
</tr>
<tr>
<td>MT 513</td>
<td>7</td>
<td>Bachelor of Science in Coaching and Sports Performance</td>
<td>53</td>
</tr>
<tr>
<td>MT 915</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Coaching Science &amp; Sports Pedagogy</td>
<td>54</td>
</tr>
<tr>
<td>MT 911</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Health and Leisure (Degree Award Options)</td>
<td>55</td>
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<td>MT 511</td>
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<td>Bachelor of Science in Health and Leisure (Degree Award Options)</td>
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<td>MT 912</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Health and Leisure with Massage</td>
<td>57</td>
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<td>7</td>
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<td>MT 914</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Inclusive Sport and Physical Activity</td>
<td>59</td>
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<td>Bachelor of Science in Inclusive Sport and Physical Activity</td>
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<td>Bachelor of Business in Recreation and Leisure Management</td>
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<td>MT 910</td>
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<td>Bachelor of Business (Honours) in Sport and Exercise Management</td>
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Symbol Key:
- Work Placement
- Progression to the next NFQ level
- Garda Vetting
- Medical Required
- Exit Award
Coaching and Sports Performance (Honours)
Feidhmíocht Cóitseála agus Spóirt (Onóiracha)

Application: CAO
CAO Code: MT 913
NFO Level: 8
Award Title: Bachelor of Science (Honours) in Coaching and Sports Performance
Duration: 4 Years (8 Semesters)
Places: 16
Location: MTU Kerry North Campus

Overview
The Coaching and Sports Performance programme aims to develop, from evidence-based theory and practice, the students’ ability to lead physical activity, to coach athletes (individually and in teams), and manage sports teams and individual athletes. Graduates will also have the knowledge, skills, competence and first-hand experience to design and lead strength and conditioning programmes and to design and lead performance training programmes.

Graduates will be able to safely, and within context, advise on performance-related nutrition, apply the principles of sports psychology in context, and apply ancillary techniques in recovery from exercise, injury management or others in support of optimal sports performance and recovery.

The strength of the programme delivery model is that students experience a significant amount of applied practical time during their studies. The applied practice elements include independent studies, workshops, group discussions, activity leadership sessions, client (group and individual) engagement, and other activities that provide authenticity to the students’ experience.

Health and Leisure students are regular players on the University’s teams in a variety of sports and through a variety of University society and volunteering activities. The department in general is known for its valued contribution to the health, fitness and leisure industry nationally, where the department is involved in establishing sectoral standards and educational policy change.

The Department of Health and Leisure Studies is a registered REPs Ireland provider. REPs Ireland (www.repsireland.ie) uses industry standards that have been developed and published by the European Health & Fitness Association to determine eligibility of individual exercise professionals for entry to the REPs Ireland register.

Further Studies
Suitably qualified Level 8 Honours graduates are eligible to progress to the MSc in Applied Exercise for Health at MTU Kerry North Campus or to research at either master or PhD level.

Accreditation
Students will gain the knowledge, competence and skills required to operate as a basic level instructor in the exercise to music and gym environments accreditation of European Health Fitness Association (EHFA).

Question Time
Do I get any additional qualifications from this programme?
In addition to graduating with an honours Bachelor of Science degree, graduates will be qualified fitness instructors, personal trainers with broad-ranging knowledge in nutrition and exercise programming, and will hold coaching badges in selected sports codes. Students on this programme gain unique experience in studying modules in adapted physical activity and exercise recovery techniques.

Contact Information
Fiona O’Flynn
T: +353 (0)66 719 1972
E: fiona.oflynn@mtu.ie

Career Opportunities
This degree programme is intended for prospective students interested in pursuing a career in areas such as:

• High-level fitness instruction and personal training businesses, for teams, professional athletes or private individuals
• Sports management in elite and professional club contexts
• Commercial sales and/or sales management in the sports and fitness sector
• Coaching, coach tutoring
• Sports development, talent development, athlete and team conditioning

First Year at a Glance
• Exercise Science – Anatomy and Physiology: explains the structure of the human body and how physiological systems contribute to overall body function
• Physical Education and Coaching Studies: enables students to critique human movement in order to facilitate learning and development in others across a range of movement contexts
• Introduction to Performance Training: provides a detailed understanding of the factors that affect performance, the components of field-testing and training methodologies for performance in the areas of speed, agility and flexibility.
• Independent Studies: the aim of this module is to enhance students’ ability to coach human movement. Students will also gain a coaching qualification in a sport of their choice
• Activity Leadership: Weights: this module focuses specifically upon trends in the fitness industry and to bring students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions.

For more information, visit www.mtu.ie/MT913

Score the necessary CAO points and meet minimum Leaving Certificate requirements & subjects

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<tr>
<th>SUBJECTS O6/H7</th>
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Coaching and Sports Performance
Feidhmíocht Cóitseála agus Spóirt

Application: CAO
CAO Code: MT 513
NFQ Level: 7
Award Title: Bachelor of Science in Coaching and Sports Performance
Duration: 3 Years (6 Semesters)
Places: 16
Location: MTU Kerry North Campus

Overview
The Coaching and Sports Performance programme aims to develop, from evidence-based theory and practice, the students’ ability to lead physical activity, to coach athletes (individually and in teams), and manage sports teams and individual athletes. Graduates will also have the knowledge, skills, competence and first-hand experience to design and lead strength and conditioning programmes and to design and lead performance training programmes.

Graduates will be able to safely, and within context, advise on performance-related nutrition, apply the principles of sports psychology in context, and apply ancillary techniques in recovery from exercise, injury management or others in support of optimal sports performance and recovery.

The strength of the programme delivery model is that students experience a significant amount of applied practical time during their studies. The applied practice elements include independent studies, workshops, group discussions, activity leadership sessions, client (group and individual) engagement, and other activities that provide authenticity to the students’ experience.

Health and Leisure students are regular players on the University’s teams in a variety of sports and through a variety of University society and volunteering activities. The department in general is known for its valued contribution to the health, fitness and leisure industry nationally, where the department is involved in establishing sectoral standards and educational policy change.

The Department of Health and Leisure Studies is a registered REPs Ireland provider. REPs Ireland (www.repsireland.ie) uses industry standards that have been developed and published by the European Health & Fitness Association to determine eligibility of individual exercise professionals for entry to the REPs Ireland register.

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year)
• Bachelor of Science (Honours) in Coaching and Sports Performance

Accreditation
Students will gain the knowledge, competence and skills required to operate as a basic level instructor in the exercise to music and gym environments accreditation of European Health Fitness Association (EHFA).

Contact Information
Fiona O’Flynn
T: +353 (0)66 719 1972
E: fiona.oflynn@mtu.ie

Career Opportunities
This degree programme is intended for prospective students interested in pursuing a career in areas such as:
• High-level fitness instruction and personal training businesses, for teams, professional athletes or private individuals
• Sports management in elite and professional club contexts
• Commercial sales and/or sales management in the sports and fitness sector
• Coaching, coach tutoring
• Sports development, talent development, athlete and team conditioning

First Year at a Glance
• Exercise Science – Anatomy and Physiology: the aim of this module is to explain the structure of the human body and how physiological systems contribute to overall body function
• Physical Education and Coaching Studies: enables students to critique human movement in order to facilitate learning and development in others across a range of movement contexts
• Introduction to Performance Training: provides a detailed understanding of the factors that affect performance, the components of field-testing and training methodologies for performance in the areas of speed, agility and flexibility
• Independent Studies: the aim of this module is to enhance student’s ability to coach human movement. Students will also gain a coaching qualification in a sport of their choice
• Activity Leadership – Weights: this module focuses specifically upon trends in the fitness industry and to bring students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions
• Exercise Science – Sports Psychology and Motor Learning: the goal of this module is to introduce and apply skill acquisition, motor learning and motor control in the context of sport and physical activity

Score the necessary CAO points and meet minimum Leaving Certificate requirements

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NOTE 1: Applicants must provide certification of fitness for a programme of vigorous physical activity.
NOTE 2: Vetting by an Garda Síochána is a mandatory requirement for this programme.
Coaching Science & Sports Pedagogy (Honours)
Eolaíocht Cóitseála agus Oideolaíocht Spóirt (Onóraíth)

Application: CAO
CAO Code: MT 915
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Coaching Science & Sports Pedagogy
Duration: 4 Years (8 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

Overview
The BSc (Hons) in Coaching Science & Sports Pedagogy is a 4-year programme designed to introduce students to the applications of coaching science and physical education pedagogy, in addition to the scientific aspects of sports performance and health.

The programme focuses on key theories with applied research and practical skills in these core domains to provide graduates with the relevant knowledge, skills and competences to work as professionals in a wide range of sports coaching, athletic development, and health and wellbeing settings. The option of a comprehensive sports internship programme that provides not just breadth, but also significant depth, in the operational machinations of the ‘coaching science and sports performance’ industry in Ireland and/or abroad, is an integral component of this programme.

This programme also serves to prepare graduates for postgraduate opportunities in the much sought after domain of physical education (PE) teacher education. To achieve this, a dedicated suite of PE-specific modules, that meet the pre-requisites for application to the Level 9 Professional Master of Education (PME) in Physical Education (PE) in Ireland, and a range of Postgraduate Certificate in Education (PGCE) programmes in Physical Education in the UK and further abroad, are embedded across the 4 years of study. The option of a comprehensive placement opportunity in a support role in a post-primary school PE Department is also a key strength of this programme, as it introduces and exposes prospective graduates to the day-to-day operation of a post-primary school setting across a 12-week period, while integrating them into that school’s physical education curriculum and culture.

Further Studies
In addition to the postgraduate pathway into PE teaching, suitably qualified graduates may progress at postgraduate level in the areas of Physiotherapy, Strength & Conditioning, Health Promotion, and a variety of sports-related masters programmes. MTU Bishopstown Campus also coordinates HEx-Spo which offers Masters and PhD programmes in the areas of coaching science, sports performance, physical activity and exercise, health promotion, and skill acquisition.

Question Time
Is there any established direct progression route to the PME (PE teaching) i.e. will there be any places reserved on the PME for graduates of this new programme?
No, there is not a direct progression route. Whilst the honours degree covers the Teaching Council requirements for PE Education, the application to the University of Limerick (UL) PME is separate.

Contact Information
Dr Cian O’Neill
T: +353 (0)21 433 5823
E: cian.oneill@mtu.ie

Career Opportunities
The BSc (Hons) in Coaching Science & Sports Pedagogy programme combines key theories with applied research and practical skills to afford graduates appropriate knowledge, skills and competences to work as professionals in a wide range of settings in the (i) sports coaching, and (ii) high performance sport, or (iii) health and wellbeing industries, in addition to (iv) meeting the Teaching Council Guidelines to apply for a PME (or equivalent) in Physical Education.

First Year at a Glance
• PE Pedagogy Modules: introduction to aspects of sports pedagogy such as technical development, tactical awareness, safe and inclusive participation, and personal and social development.
• The Science & Art of Coaching: learn about models of best principles and practice in coaching as well as how to develop a coaching philosophy.
• Motor Development in Youth: development of a child’s bones and muscles, and their ability to move around and manipulate their environment. It is delivered through the lens of fundamental movement skills (FMS), and how these can be developed among children.
• Gym Instruction: preparation to be a gym instructor/circuit training instructor. The emphasis is on the student’s ability to perform and demonstrate exercises correctly and on developing their skills to instruct.
• Sports Psychology: introduction to the basic theories of sports psychology and identifies ways in which it can be used in a sports performance setting.
• Nutrition for Health: nutrition and its relationship with health-related matters such as diet, weight management and obesity.

www.mtu.ie/MT915
Health and Leisure (Honours)
Sláinte agus Fóillíocht (Onóracha)

Application: CAO
CAO Code: MT 911
NFQ Level: 8
Award Title: Depends on specialisation. Choose from:
- BSc (Hons) in Health and Leisure (Health, Fitness and Leisure)
- BSc (Hons) in Health and Leisure with Physical Education
- BSc (Hons) in Health and Leisure with Adapted Physical Activity
Duration: 4 Years (8 Semesters)
Places: 35
Location: MTU Kerry North Campus

Overview
This honours degree provides you with the skills to launch an exciting career as a professional in the health, fitness and leisure sectors. It involves the study of six major subject areas, five of which are common to all students: Exercise Science, Health Studies, Activity Leadership, Physical Education, and Professional Practice. For the sixth subject area, students study either ‘Education in Aquatics’ or ‘Outdoor and Experiential Learning’.

First year students are assessed shortly after registration for their swimming ability. Swim ability is a criterion used to determine suitability for the Education in Aquatics stream.

All course material is delivered through a mix of applied theory and practice. At the end of second year, students enter the Physical Education, Adapted Physical Activity or Health, Fitness and Leisure streams which allows students to begin to specialise in specific topics in third year. There is also a 12-week work placement in third year, which can be completed with a local, national or international service provider.

Graduates will have an honours bachelor of science degree and a variety of discipline-specific professional certifications. Students are expected to become sufficiently competent practitioners to become eligible for professional fitness instructor registration in group exercise, gym instruction, and personal training.

Further Studies
Suitably qualified Level 8 Honours graduates are eligible to progress to the MSc in Applied Exercise for Health at MTU Kerry North Campus or to research at either master or PhD level. Graduates of the Physical Education stream will also be eligible to progress to the Professional Master of Education in Physical Education at UL which is a pre-requisite for admission to the Teaching Council register.

Question Time
Is there a progression route to second level PE teaching from this degree? Yes, graduates of the BSc (Honours) in Physical Education will meet the Teaching Council curricular subject requirements for teaching Physical Education to Leaving Certificate level. Graduates will be eligible to progress to the Professional Master of Education in Physical Education at UL which is a pre-requisite for admission to the Teaching Council register.

PLEASE NOTE: If you sustain injuries that impact your physical engagement with the programme, this may affect your ability to continue on the programme and/or to progress.

Contact Information
Fiona O’Flynn
T: +353 (0)66 719 1972
E: fiona.oflynn@mtu.ie

Career Opportunities
Graduates work in health and leisure centres, in health promotion units, in spa/wellness centres, in coaching and team sport settings, in performance training, exercise programming, hotels, with disability service providers, in clinical settings, in the private/entrepreneurial area, in local sports partnerships and governing bodies of sport, in swimming pools, and in the great outdoors.

Adapted Physical Activity graduates are health and leisure professionals with a specialist knowledge and experience in working with people with disabilities. Physical Education graduates work within the school environment, and also in youth work, adult education and broader community sport and leisure settings.

Health, Fitness and Leisure graduates develop, influence and advocate for policy, provision and practice in a range of sectors, while maintaining health, wellbeing and fitness and optimal performance as central paradigms of their careers.

First Year at a Glance
- Exercise Science – Anatomy and Physiology: the aim of this module is to explain, through principles and concepts of physiology and anatomy, the structure of the human body and how physiological systems contribute to overall body function
- Physical Education and Coaching Studies: the aim of this module is to enable students to critique human movement in order to facilitate learning and development in others across a range of movement contexts
- Activity Leadership: this module aims to bring students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions in the exercise to music and gym environments with healthy adults using a whole-part-whole approach

MINIMUM LEAVING CERTIFICATE REQUIREMENTS

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NOTE 1: Applicants must provide certification of fitness for a programme of vigorous physical activity.

NOTE 2: Vetting by an Garda Síochána is a mandatory requirement for this programme.

www.mtu.ie/MT911
Overview
This degree provides you with the skills to launch an exciting career as a professional in the health, fitness and leisure sectors. It involves the study of six major subject areas, five of which are common to all students: Exercise Science, Health Studies, Activity Leadership, Physical Education and Professional Practice. For the sixth subject area, students study either ‘Education in Aquatics’ or ‘Outdoor and Experiential Learning’. Your degree award title will reflect your choice of this sixth subject area.

All course material is delivered through a mix of applied theory and practice. At the end of second year, students enter the Physical Education, Adapted Physical Activity or Health, Fitness and Leisure streams which allows students to begin to specialise in specific topics in third year. There is also a 12-week work placement in third year, which can be completed with a local, national or international service provider.

Graduates will have a Bachelor of Science degree and a variety of discipline-specific professional certifications. Students are expected to become sufficiently competent practitioners to become eligible for professional fitness instructor registration in group exercise, gym instruction and personal training.

This level 7 programme involves vigorous physical activity, eligible candidates will need medical clearance. First year students are assessed shortly after registration for their swimming ability. Swim ability is a criterion used to determine suitability for the Education in Aquatics stream. Garda vetting is also mandatory.

Further Studies
Depending on their specialism choice in year three, suitably qualified Level 7 graduates are eligible to progress to year 4 (final year) of:
• Bachelor of Science (Honours) in Health and Leisure (Health, Fitness and Leisure) or
• Bachelor of Science (Honours) in Health and Leisure with Physical Education or
• Bachelor of Science (Honours) in Health and Leisure with Adapted Physical Activity

PLEASE NOTE: if you sustain injuries that impact your physical engagement with the programme, this may affect your ability to continue on the programme and/or to progress.

Question Time
Is there an exit award from this course?
Yes, students who successfully complete year two of this programme and who do not wish to progress to third year are eligible to receive a higher certificate award.

Contact Information
Fiona O’Flynn
T: +353 (0)66 719 1972
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Career Opportunities
Graduates enjoy a rich variety of employment opportunities. They work in health and leisure centres, in health promotion units, in spa/wellness centres, in coaching and team sport settings, in performance training, exercise programming, hotels, mainstream and special-needs schools, community centres, disability service providers, clinical settings, in the private/entrepreneurial area, in local sports partnerships and governing bodies of sport, in swimming pools and in the great outdoors.

First Year at a Glance
• Exercise Science – Anatomy and Physiology: the aim of this module is to explain, through principles and concepts of physiology and anatomy, the structure of the human body and how physiological systems contribute to overall body function
• Physical Education and Coaching Studies: the aim of this module is to enable students to critique human movement in order to facilitate learning and development in others across a range of movement contexts
• Activity Leadership: this module aims to bring students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions in the exercise to music and gym environments with healthy adults using a whole-part-whole approach

www.mtu.ie/MT511
Health and Leisure with Massage (Honours)
Sláinte agus Fóilliócht le Suathaireacht (Onóracha)

Application: CAO
CAO Code: MT 912
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Health and Leisure with Massage
Duration: 4 Years (8 Semesters)
Places: 10
Location: MTU Kerry North Campus

Overview
This honours degree provides you the opportunity to develop your knowledge and professional skills in preparation for an exciting career in the health, fitness and leisure sector – and as a massage therapist. The programmes consist of applied, active training programmes (massage casework, aquatic therapy, aquatic rehabilitation, posture cultivation, functional assessment, fitness testing) and the theoretical foundations underpinning the promotion of wellness (wellbeing science, behaviour change, exercise referral) and optimal body function through massage/body work.

The programme emphasises community engagement, relevant massage practice, wellness education and the importance of a broad skill set. As you progress, you can expect to become confident in your professional skills, your life skills and in communicating the theoretical basis for concepts in health and leisure. Graduates will have a bachelor of science honours degree, massage therapist registration, and may also be eligible for professional fitness instructor registration in group exercise, gym instruction and personal training.

Further Studies
Graduates who achieve the specified level of academic performance are eligible to progress to the MSc in Applied Exercise for Health at MTU Kerry or to research at either master or PhD level.

PLEASE NOTE: if you sustain injuries that impact your physical engagement with the programme, this may affect your ability to continue on the programme and/or to progress.

Question Time
Is it possible to progress into Physiotherapy from this course?
Yes, a number of our graduates, who achieved a minimum of a Second Class Honours Grade I, have been accepted on to the MSc in Physiotherapy in UCC. This is a two year full-time programme.

Is there an exit award from this course?
Yes, in fact there are two exit awards. Students who successfully complete year two of this programme and who do not wish to progress to third year are eligible to receive a higher certificate award. Students who successfully complete year three of this programme and who do not wish to progress to fourth year are eligible to receive an ordinary degree award.

Contact Information
Fiona O’Flynn
T: +353 (0)66 719 1972
E: fiona.oflynn@mtu.ie

Career Opportunities
On graduation, you will be a health and fitness professional, a wellness educator with a specialist knowledge and practice in massage therapy. You will be equipped to work in a variety of settings, including health and leisure centres, health promotion, spa/wellness centres, hotels, mainstream and special-needs schools, community centres, clinical settings, workplaces and in the private/entrepreneurial area being competent to specialise in hands on relaxation and clinical massage techniques, aquatic therapy, activity leadership, remedial and orthopaedic massage. Graduates can take up employment opportunities in the areas of sports development/coaching, sports massage and rehabilitation, health and wellbeing promotion, in the area of physical education with young and older adult groups and in adapted physical activity education.

First Year at a Glance
• Exercise Science – Anatomy and Physiology: the aim of this module is to explain, through principles and concepts of physiology and anatomy, the structure of the human body and how physiological systems contribute to overall body function
• Health and Personal Wellbeing: in this introductory health studies module, student lifestyle, health choices and personal wellness will be explored
• Massage Theory: the aim of this module is to explore the effect of massage therapy on holistic health and identify practices that are evidence based
• Activity Leadership: this module brings students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions in the exercise to music and gym environments with healthy adults using a whole-part-whole approach

Further Studies
Graduates who achieve the specified level of academic performance are eligible to progress to the MSc in Applied Exercise for Health at MTU Kerry or to research at either master or PhD level.

PLEASE NOTE: if you sustain injuries that impact your physical engagement with the programme, this may affect your ability to continue on the programme and/or to progress.

Question Time
Is it possible to progress into Physiotherapy from this course?
Yes, a number of our graduates, who achieved a minimum of a Second Class Honours Grade I, have been accepted on to the MSc in Physiotherapy in UCC. This is a two year full-time programme.

Is there an exit award from this course?
Yes, in fact there are two exit awards. Students who successfully complete year two of this programme and who do not wish to progress to third year are eligible to receive a higher certificate award. Students who successfully complete year three of this programme and who do not wish to progress to fourth year are eligible to receive an ordinary degree award.

Contact Information
Fiona O’Flynn
T: +353 (0)66 719 1972
E: fiona.oflynn@mtu.ie

Career Opportunities
On graduation, you will be a health and fitness professional, a wellness educator with a specialist knowledge and practice in massage therapy. You will be equipped to work in a variety of settings, including health and leisure centres, health promotion, spa/wellness centres, hotels, mainstream and special-needs schools, community centres, clinical settings, workplaces and in the private/entrepreneurial area being competent to specialise in hands on relaxation and clinical massage techniques, aquatic therapy, activity leadership, remedial and orthopaedic massage. Graduates can take up employment opportunities in the areas of sports development/coaching, sports massage and rehabilitation, health and wellbeing promotion, in the area of physical education with young and older adult groups and in adapted physical activity education.

First Year at a Glance
• Exercise Science – Anatomy and Physiology: the aim of this module is to explain, through principles and concepts of physiology and anatomy, the structure of the human body and how physiological systems contribute to overall body function
• Health and Personal Wellbeing: in this introductory health studies module, student lifestyle, health choices and personal wellness will be explored
• Massage Theory: the aim of this module is to explore the effect of massage therapy on holistic health and identify practices that are evidence based
• Activity Leadership: this module brings students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions in the exercise to music and gym environments with healthy adults using a whole-part-whole approach

www.mtu.ie/MT912
Exercise Science – Anatomy and Physiology: the aim of this module is to explain, through principles and concepts of physiology and anatomy, the structure of the human body and how physiological systems contribute to overall body function.

Health and Personal Wellbeing: in this introductory health studies module, student lifestyle, health choices and personal wellness will be explored.

Massage Theory: the aim of this module is to explore the effect of massage therapy on holistic health and identify practices that are evidence based.

Activity Leadership: this module brings students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions in the exercise to music and gym environments with healthy adults using a whole-part-whole approach.

On graduation, you will be a health and fitness professional, a wellness educator with a specialist knowledge and practice in massage therapy. You will be equipped to work in a variety of settings, including health and leisure centres, health promotion, spa/wellness centres, hotels, mainstream and special-needs schools, community centres, clinical settings, workplaces and in the private/entrepreneurial area being competent to specialise in hands on relaxation and clinical massage techniques, aquatic therapy, activity leadership, remedial and orthopaedic massage. Graduates can take up employment opportunities in the areas of sports development/coaching, sports massage and rehabilitation, health and wellbeing promotion, in the area of physical education with young and older adult groups and in adapted physical activity education.

SCORE THE NECESSARY CAO POINTS AND MEET MINIMUM LEAVING CERTIFICATE REQUIREMENTS

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NOTE 1: Applicants must provide certification of fitness for a programme with regular vigorous physical activity.

NOTE 2: Vetting by an Garda Síochána is a mandatory requirement for this programme.

First Year at a Glance

• Exercise Science – Anatomy and Physiology: the aim of this module is to explain, through principles and concepts of physiology and anatomy, the structure of the human body and how physiological systems contribute to overall body function.

• Health and Personal Wellbeing: in this introductory health studies module, student lifestyle, health choices and personal wellness will be explored.

• Massage Theory: the aim of this module is to explore the effect of massage therapy on holistic health and identify practices that are evidence based.

• Activity Leadership: this module brings students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions in the exercise to music and gym environments with healthy adults using a whole-part-whole approach.

Contact Information
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Inclusive Sport and Physical Activity (Honours)
Spórt agus Gníomháíochta Choirp Lánpháirtíochta (Onóracha)

Overview
This programme in Inclusive Sport and Physical Activity offers prospective students the opportunity to study health, adapted physical activity (APA), adapted physical education (APE) and sport in an honours degree programme which focuses particularly on the provision of opportunities for people with disabilities, as well as for the population in general. In recent years, government sport and health policy has focused on increasing choice and opportunities for adults and children with disabilities to lead an active and healthy lifestyle. This course aims to develop the professional skills to achieve this change.

The Kerry Campus of MTU is recognised internationally as one of the leading centres in the world for inclusion education and APA. This programme aims to develop the learner so that on completion of the BSc (Honours) degree, the graduate will be able to

- Apply a specialist knowledge of health studies, exercise science, activity leadership, physical education, youth development studies, sports development, sports psychology, coaching, leisure marketing, disability studies and relevant work experience, in the Health, Fitness, Recreation, and Education sectors
- Practice in context, knowledge and skills in either education in aquatics or outdoor and experiential learning or massage therapies
- Articulate an in-depth understanding of the theory, concepts and methods pertaining to safe and effective practice in health-related fitness and in inclusive and adapted physical activity.
- Critically analyse and evaluate relevant knowledge in health-related fitness and in inclusive and adapted physical activity settings and interventions
- Facilitate the achievement of optimal physical functioning and capacity of individuals using a biopsychosocial model.
- Provide and manage interventions that incorporate knowledge from the diverse areas within the course
- Demonstrate relevant knowledge to adopt systematic approaches to health-related fitness and in inclusive and adapted physical activity based on best available evidence

Further Studies
Suitably qualified graduates may progress to
- MSc in Applied Exercise for Health
or to research at either master or PhD level.

PLEASE NOTE: if you sustain injuries that impact your physical engagement with the programme, this may affect your ability to continue on the programme and/or to progress.

Question Time
Is there an exit award from this course?
Yes, in fact there are two exit awards. Students who successfully complete year two of this programme and who do not wish to progress to third year are eligible to receive a higher certificate award. Students who successfully complete year three of this programme and who do not wish to progress to fourth year are eligible to receive an ordinary degree award.

Contact Information
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Career Opportunities
This honours degree programme provides students with a specialist skill set which includes comprehensive knowledge, skills and competencies to operate as

- APA practitioners
- Aquatic and outdoor instructors
- Personal trainers
- Development officers
- Policy-makers in the disability sector

First Year at a Glance
- Building your Science Degree: the aim of this module is to support students in their transition to becoming independent learners in higher education by enabling them to develop learning skills and strategies essential for success on their respective programmes
- Anatomy and Physiology: the aim of this module is to explain, through principles and concepts of physiology and anatomy, the structure of the human body and how physiological systems contribute to overall body function
- Physical Education and Coaching Studies: enables students to critique human movement in order to facilitate learning and development in others across a range of movement contexts
- Health and Personal Wellbeing: in this introductory health studies module, student lifestyle, health choices and personal wellness will be explored
- Inclusive Community Engaged Learning: the aim of this module is to engender an ethos of active citizenship amongst this student cohort
- Activity Leadership: this module brings students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions in the exercise to music and gym environments with healthy adults using a whole-part-whole approach

www.mtu.ie/MT914

Application: CAO
CAO Code: MT 914
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Inclusive Sport and Physical Activity
Duration: 4 Years (8 Semesters)
Places: 16
Location: MTU Kerry North Campus

Score the necessary CAO points and meet minimum Leaving Certificate Requirements & Subjects

<table>
<thead>
<tr>
<th>SUBJECTS O6/H7</th>
<th>SUBJECTS H5</th>
<th>MATHS GRADE</th>
<th>ENGLISH OR IRISH GRADE</th>
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<tbody>
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<td>4</td>
<td>2</td>
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<td>O6/H7</td>
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NOTE 1: Applicants must provide certification of fitness for a programme of vigorous physical activity.
NOTE 2: Vetting by an Garda Síochána is a mandatory requirement for this programme.
Overview
This programme in Inclusive Sport and Physical Activity offers prospective students the opportunity to study health, adapted physical activity (APA), adapted physical education (APE), and sport in a degree programme which focuses particularly on the provision of opportunities for people with disabilities, as well as for the population in general. In recent years, government sport and health policy has focused on increasing choice and opportunities for adults and children with disabilities to lead an active and healthy lifestyle. This course aims to develop the professional skills to achieve this change.

The Kerry Campus of MTU is recognised internationally as one of the leading centres in the world for inclusion education and APA. This programme aims to develop the student so that on completion of the level 7 degree, the graduate will be able to

• Apply a knowledge of health studies, exercise science, activity leadership, physical education, youth development studies, sports development, sports psychology, coaching, leisure marketing, disability studies and relevant work experience, in the Health, Fitness, Recreation, sectors
• Practice in context, knowledge and skills in either education in aquatics or outdoor and experiential learning or massage therapies
• Articulate understanding of the theory, concepts and methods pertaining to safe and effective practice in health-related fitness and in inclusive and adapted physical activity
• Evaluate relevant knowledge in health-related fitness and in inclusive and adapted physical activity settings and interventions
• Facilitate with relevant opportunities, the physical functioning and capacity of individuals using a biopsychosocial model
• Implement health-related fitness, inclusive and adapted physical activity interventions that incorporate knowledge from the diverse areas within the course
• Demonstrate relevant knowledge to implement systematic approaches to health-related fitness and in inclusive and adapted physical activity based on best available evidence

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year)
• Bachelor of Science (Honours) in Inclusive Sport and Physical Activity

PLEASE NOTE: If you sustain injuries that impact your physical engagement with the programme, this may affect your ability to continue on the programme and/or to progress.

Question Time
Is there an exit award from this course? Yes, students who successfully complete year two of this programme and who do not wish to progress to third year are eligible to receive a higher certificate award.

Contact Information
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Career Opportunities
This degree programme provides students with a specialist skill set which includes comprehensive knowledge, skills and competencies to operate as

• APA practitioners
• Aquatic and outdoor instructors
• Personal trainers
• Development officers
• Policy-makers in the disability sector

First Year at a Glance
• Building your Science Degree: the aim of this module is to support students in their transition to becoming independent learners in higher education by enabling them to develop learning skills and strategies essential for success on their respective programmes
• Anatomy and Physiology: the aim of this module is to explain, through principles and concepts of physiology and anatomy, the structure of the human body and how physiological systems contribute to overall body function
• Physical Education and Coaching Studies: enables students to critique human movement in order to facilitate learning and development in others across a range of movement contexts
• Health and Personal Wellbeing: in this introductory health studies module, student lifestyle, health choices and personal wellness will be explored
• Inclusive Community Engaged Learning: the aim of this module is to engender an ethos of active citizenship amongst this student cohort
• Activity Leadership: this module brings students to a level of competence in the planning, delivery and evaluation of individual and group exercise sessions in the exercise to music and gym environments with healthy adults using a whole-part-whole approach

www.mtu.ie/MT514
Recreation & Leisure Management
Bainistióocht Áineasa & Fóillióchta

Application: CAO
CAO Code: MT 510
NFQ Level: 7
Award Title: Bachelor of Business in Recreation & Leisure Management
Duration: 3 Years (6 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

Overview
This programme combines health, fitness, sports and exercise related modules with
core Business modules. The programme prepares students to work in the business,
sports and leisure sector of the economy and provides them with the specialist skills and
competencies needed in these industries.

The leisure industry is one of the fastest
growing sectors of the economy. This
has created a demand for personnel with
specialist knowledge and skills in recreation
and leisure. This programme combines
such skills and competencies with a strong
business base, while offering students
the opportunity to acquire appropriate
practical and managerial expertise, which
will enable them to be effective managers
in the recreation and leisure industry. There
is a mandatory supervised work placement
of five weeks in year 3 (e.g. leisure centres,
adapted physical activity centres and sports
coaching settings).

Professional Accreditation
A number of industry recognised external
qualifications are incorporated into the
programme. These include REPs (Register of
Exercise Professionals) Ireland Qualifications
in the area of fitness instruction and personal
training. Coaching Ireland awards in a
variety of sports are incorporated into the
sports coaching modules. Qualifications
in lifesaving, swim teaching, ITEC massage
therapy, and sports massage can also be
attained. MTU, through the Sport & Exercise Management programme, is an affiliated
University with the European College of
Sport Science (ECSS).

Further Studies
Suitably qualified graduates are eligible to
apply for entry to year 4 (final year) of
• Bachelor of Business (Honours) in Sport &
Exercise Management
or to the one year add-on
• Bachelor of Business (Honours)

Question Time
What sport aptitude do I need to have?
Active participation in sport and/or physical
activity is an advantage. However, applicants
do not need to have exceptional ability
or achievements in sport to excel in this
programme.

What areas of teaching am I qualified to
teach in?
As with any Level 7 qualification, teaching is
not an immediate possibility. However, for
those students who decide to progress to
the Bachelor of Business (Honours) in Sport
& Exercise Management or the Bachelor of
Business (Honours), there are two primary
possibilities to embark on further study in
teacher education:

• Professional Master of Education (PME) in
Primary Teaching, which is a 2-year Level
9 qualification, as long as the applicant
presents with the minimum Leaving
Certificate requirement in Irish or suitable
equivalent. The Department of Education
recognises this PME to teach in primary
schools
• Professional Master of Education in
Business Teaching, which is accredited by
the Teaching Council. This postgraduate
teacher education programme is offered in
several universities.

It is important to note there is no route into
PE teaching from this course. Please see MT
915 and MT 911 which do provide a route
into PE teaching.

What type of business content is involved
in the course?
Accounting, Business Administration,
Marketing, Economics, Management, and
Enterprise Development are the business
modules covered over the three years of this
programme.

Contact Information
Dr Con Burns
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Career Opportunities
This programme offers access to a wide
range of employment opportunities in the
sport and leisure industry such as leisure/
sports centre management, personal
trainer, strength and conditioning coach,
sports coaching/team management, swim
teaching and lifeguarding, group exercise
leadership, sports development, health
promotion, community recreation, and
sports marketing.

• Fitness instructor
• Personal trainer/strength and conditioning
coach
• Leisure/sports centre management
• Sports coaching/team management

First Year at a Glance
• Fundamental Movement Skills: practical
and theoretical aspects of planning,
teaching and evaluating effective activity
sessions to develop basic movement skills
among children
• Gym Instruction: prepares the student
for work as a gym instructor and as a
circuit training instructor. The emphasis
is on the student’s ability to perform and
demonstrate exercises correctly and on
developing their skills to instruct
• Sports Psychology: basic theories of sports
psychology and identifies ways in which
it can be used in a sports performance
setting
• Nutrition for Health: nutrition and its
relationship with health-related matters
such as diet, weight management, and
obesity

Score the necessary CAO points and meet
minimum Leaving Certificate requirements

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<tr>
<th>SUBJECTS</th>
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<th>ENGLISH OR IRISH GRADE</th>
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NOTE: Vetting by An Garda Síochána is a mandatory
requirement for this programme.
Sport & Exercise Management (Honours)
Bainistíocht Spóirt & Aclaíochta (Onórchá)

Application: CAO
CAO Code: MT 910
NFQ Level: 8
Award Title: Bachelor of Business (Honours) in Sport & Exercise Management
Duration: 4 Years (8 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

Overview
This programme has been designed to cater for those who wish to pursue a career in the sport, exercise and health industries, both in Ireland and abroad. The delivery is based on the combination of key theories with applied research and practical skills to afford graduates appropriate knowledge, skills and competencies to work as professionals in a wide range of settings in the sport, leisure and business industry. The programme was developed in response to the demands of the expanding global sport and leisure industry, who are constantly seeking ‘work-ready’ graduates with strong technical proficiencies and significant experience-bases in the growth area of interdisciplinary sport, exercise and health.

The extensive work placement is an integral element of this programme and takes place in year 3 (semester 6). This significant placement experience affords students (i) the opportunity to experience the industry in greater depth, but also (ii) the time to express their skills, knowledge and proficiencies gained from the programme in their respective workplaces.

Professional Accreditation
A number of industry recognised external qualifications are incorporated into the programme. These include REPs (Register of Exercise Professionals) Ireland qualifications in the area of fitness instruction and personal training. Coaching Ireland awards in a variety of sports are incorporated into the sports coaching modules. Qualifications in lifesaving, swim teaching, ITEC massage therapy, and sports massage can also be attained. MTU, through the Sport & Exercise Management programme, is an affiliated University with the European College of Sport Science (ECSS).

Further Studies
Suitably qualified graduates are eligible to apply for postgraduate studies such as: Physiotherapy (MSc. in UCC or UL), Sports Management (MSc. in UCD), Sports Performance (MSc. in UL), Sports Psychology (MSc. in UL), and Teacher Education (PME Business in UCC, UL, NUIG, MU amongst others).

Question Time
What sport aptitude do I need to have?
Active participation in sport and/or physical activity is an advantage. However, applicants do not need to have exceptional ability or achievements in sport to excel in this programme.

Is there a direct link to PE teaching if I complete this programme?
No. It is important to note that there is no direct link between the BBus (Honours) in Sport & Exercise Management degree programme and PE teaching.

Is there a pathway to teaching from this course?
There are 2 primary possibilities to embark on further study in Teacher Education.

• Professional Master of Education (PME) in Primary Teaching, which is a 2-year Level 9 Qualification, provided the applicant presents with the minimum Leaving Certificate requirement in Irish or suitable equivalent. The Department of Education recognises this PME to teach in primary schools.

• Professional Master of Education in Business Teaching, which is accredited by the Teaching Council. This postgraduate Teacher Education programme is offered in several universities.

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Social Sciences, and Education
### CAO NFQ Course Page

<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 575</td>
<td>7</td>
<td>Bachelor of Arts in Community Development</td>
<td>66</td>
</tr>
<tr>
<td>MT 971</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Early Childhood Education and Care</td>
<td>67</td>
</tr>
<tr>
<td>MT 571</td>
<td>7</td>
<td>Bachelor of Arts in Early Childhood Education and Care</td>
<td>68</td>
</tr>
<tr>
<td>MT 572</td>
<td>7</td>
<td>Bachelor of Arts in Early Childhood Education &amp; Care</td>
<td>69</td>
</tr>
<tr>
<td>MT 970</td>
<td>8</td>
<td>Bachelor of Education (Honours) in Montessori Education</td>
<td>70</td>
</tr>
<tr>
<td>MT 974</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Social Care</td>
<td>71</td>
</tr>
<tr>
<td>MT 574</td>
<td>7</td>
<td>Bachelor of Arts in Social Care</td>
<td>72</td>
</tr>
<tr>
<td>MT 573</td>
<td>7</td>
<td>Bachelor of Arts in Social Care Work</td>
<td>73</td>
</tr>
</tbody>
</table>

**Symbol Key:**
- Work Placement
- Progression to the next NFQ level
- Garda Vetting
- Medical Required
- Exit Award
Community Development
Forbairt Pobail

Application: CAO
CAO Code: MT 575
NFQ Level: 7
Award Title: Bachelor of Arts in Community Development
Duration: 3 Years (6 Semesters)
Places: 25
Location: MTU Bishopstown Campus, Cork

Overview
The broad aim of the programme is to provide an opportunity for people who are active in the community to achieve formal qualifications in the community work field. This course has been developed in partnership with community groups and consists of lectures, workshops, and seminars, combined with a substantial practical element, based in the community. Participants will remain within the community setting, thereby sustaining their contribution to the community while developing the capacity to add value to that contribution through supervised and supported learning in the workplace.

The course is assessed by continuous assessment: essay, reports, role play and presentations. Practical work placement within the community will also contribute to assessment. No formal, terminal, written examination is undertaken.

Further Studies
Suitably qualified graduates may be considered to proceed to the one year add-on
• Bachelor of Arts (Honours) in Community Development

Where applicants for the Honours Degree do not have a qualification at NFQ Level 7 in Community Development at the specified minimum level, they may be admitted on the basis of a learning portfolio that verifiably demonstrates learning performance equal to that specified by the learning outcomes of the BA degree programme at MTU.

Question Time
What is the weekly workload?
The BA in Community Development is a full-time programme at MTU Bishopstown Campus, Cork. Your weekly work schedule will consist of lectures at the Bishopstown Campus as well as supervised work placements. The placement is an integral part of the programme and is core to your professional development. In addition, employers value the experience gained via the supervised placement.

What are the arrangements for the work placement?
The work placement will take place in selected locations around Cork city, which are easily accessible via public transport.

What personal skills are most suited to the programme and subsequent careers?
The best students and professional community workers all possess a keen interest in social justice issues alongside a desire to make a positive difference to peoples’ lives.

What kind of person should you be?
The community work profession requires individuals who are mindful of their responsibility towards other people and their communities.

The community work professional also involves a strong legal and ethical commitment to promoting the safety of children and ‘vulnerable’ adults in society.

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Community Development: community development principles and everyday life
• Community Work Placement 1: the application of theory in practice settings
• Sociology and Community: sociology in community spaces
• Social Analysis: analysis of how Irish and European Society functions
• Education: analysis of the Education system in Ireland and the EU

Contact Information
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First Year at a Glance
• Community Development: community development principles and everyday life
• Community Work Placement 1: the application of theory in practice settings
• Sociology and Community: sociology in community spaces
• Social Analysis: analysis of how Irish and European Society functions
• Education: analysis of the Education system in Ireland and the EU

Career Opportunities
Graduates of the degree programme can expect to take community work and leadership roles in community projects and within statutory agencies.
• Statutory organisations
• Non-governmental organisations (NGOs)
  – community youth services
  – Social enterprises in communities
• Community equality project for women, men, LGBTQI+ communities
• Creative community arts projects in music & arts
Early Childhood Education and Care (Honours)
Oideachas agus Cúram Luathóige (Onóracha)

Application: CAO
CAO Code: MT 971
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Early Childhood Education and Care
Duration: 4 Years (8 Semesters)
Places: 40
Location: MTU Kerry North Campus

Overview
The past two decades have seen a rapid expansion in early childhood services in Ireland and an increasing awareness of the educational and training needs of early childhood practitioners. This is an applied programme, where the emphasis is on achieving high academic standards and delivering work-based learning in supervised practice placements. We also teach the necessary managerial skills to set up and run a service. This approach is all about helping you to get the knowledge, values and skills needed to perform exceptionally in your chosen field, to engage in research or manage a facility.

This degree programme is delivered through a blend of lectures, workshops, practicals, tutorials and online support. Work placements are an integral part of the programme. All students participate in a supervised work placement in one of a variety of settings in Ireland or abroad for two full semesters. In the final year of the programme, you study research methods, specialise in chosen areas and complete a dissertation on a topic of your choice.

Our graduates often comment on the extremely enjoyable yet challenging nature of the programme, the high level of networking between staff and students and the peer support and camaraderie of fellow students. We promote current best practice in early childhood studies and have Erasmus links with a range of partner EU institutions. All students are encouraged to develop their own learning styles and professional pathways. To that end, staff teaching on these programmes are supported by a range of professionals, guest lecturers, therapists, and specialists who offer workshops and seminars to deliver a highly interactive learning environment.

Further Studies
Suitably qualified graduates are eligible to apply to
• Master of Arts in Social Studies (Advanced Professional Practice) at MTU Kerry North Campus or to research at either master or PhD level.
• Professional Master of Education (primary teaching). Please note, applicants to the PME must meet the required Leaving Certificate Irish standard for primary teaching i.e. H4 or equivalent.

Contact Information
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Gerard O’Carroll
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Career Opportunities
There are increasing demands for qualified graduates in early childhood education in both the private and public sectors, and because this award is internationally recognised, graduates also have the opportunity to work abroad.

Our graduates take up roles such as
• Centre leader/manager
• Curriculum developer
• Community outreach
• In special education
• Early intervention specialists

First Year at a Glance
• Introduction to Sociology in the Early Years: introduces the discipline of sociology and sociological perspectives in general and begins to explore how the development of a sociological approach can inform a wide range of disciplines, including early childhood education and care (ECEC)
• Early Learning and Play: enables students to appreciate the practical and theoretical importance of play as a medium of development and learning in young children’s lives
• Aistear through Creative Dance and Drama in Education: applies the principles of Aistear to the teaching of dance and drama
• Maternal, Infant and Child Health: teaches students to recognise the value of good quality child and maternal environment during pregnancy, infancy and the early years and how this may have life-long consequences
• Language, Numeracy and Literacy: teaches students appropriate methodologies which enhance learning in early childhood
• Childhood and Social Policy: introduces the concept of the social construction of childhood and to the process of policymaking. Also provides a comprehensive overview of key policy developments and contemporary debates within ECEC in Ireland

NOTE 1: *A grade of F2 or above in foundation level Maths fulfils the Maths entry requirements for this programme.
NOTE 2: Vetting by an Garda Síochána is a mandatory requirement for this programme.

www.mtu.ie/MT971
Overview

The past two decades have seen a rapid expansion in early childhood services in Ireland and an increasing awareness of the educational and training needs of early childhood practitioners. This is an applied programme, where the emphasis is on achieving high academic standards and delivering work-based learning in supervised practice placements. We also teach the necessary managerial skills to set up and run a service. This approach is all about helping you to get the knowledge, values and skills needed to perform exceptionally in your chosen field, to engage in research or manage a facility.

This degree programme is delivered through a blend of lectures, workshops, practicals, tutorials and online support. Work placements are an integral part of the programme. All students participate in a supervised work placement in one of a variety of settings in Ireland or abroad for two full semesters.

Our graduates often comment on the extremely enjoyable yet challenging nature of the programme, the high level of networking between staff and students and the peer support and camaraderie of fellow students. We promote current best practice in early childhood studies and have Erasmus links with a range of partner EU institutions. All students are encouraged to develop their own learning styles and professional pathways. To that end, staff teaching on these programmes are supported by a range of professionals, guest lecturers, therapists and specialists who offer workshops and seminars to deliver a highly interactive learning environment.

Further Studies

Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year)
• Bachelor of Arts (Honours) in Early Childhood Education and Care

Question Time

On successful completion of MT 571, am I fully qualified to work in an Early Childhood Education & Care setting?
Yes.

Is there a pathway to primary school teaching from this programme?
If you progress, and successfully complete, the one year add-on to bring your qualification to level 8, you may be eligible to apply for the Professional Master of Education (PME) in Primary Teaching, which is a 2-year Level 9 qualification. Please note, applicants to the PME must meet the required Leaving Certificate Irish standard for primary teaching i.e. H4 or equivalent.

Contact Information

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First Year at a Glance

• Introduction to Sociology in the Early Years: introduces the discipline of sociology and sociological perspectives in general and begins to explore how the development of a sociological approach can inform a wide range of disciplines, including early childhood education and care (ECEC)
• Early Learning and Play: enables students to appreciate the practical and theoretical importance of play as a medium of development and learning in young children’s lives
• Aistear through Creative Dance and Drama in Education: applies the principles of Aistear to the teaching of dance and drama
• Maternal, Infant and Child Health: teaches students to recognise the value of good quality child and maternal environment during pregnancy, infancy and the early years and how this may have life-long consequences
• Language, Numeracy and Literacy: teaches students appropriate methodologies which enhance learning in early childhood
• Childhood and Social Policy: introduces the concept of the social construction of childhood and to the process of policy-making. Also provides a comprehensive overview of key policy developments and contemporary debates within ECEC in Ireland

Career Opportunities

There are increasing demands for qualified graduates in early childhood education in both the private and public sectors, and because this award is internationally recognised, graduates also have the opportunity to work abroad.

Our graduates take up roles such as
• Childcare worker
• Early childcare educator
• Centre leader/manager
• Curriculum developer
• Community outreach
• In special education
• Early intervention specialists

Note 1: *A grade of F2 or above in foundation level Maths fulfils the Maths entry requirements for this programme.

Note 2: Vetting by an Garda Síochána is a mandatory requirement for this programme.
Overview
There is an ever increasing demand for quality pre-school services in Ireland today and the BA in Early Childhood Education & Care (ECEC) provides specialised training, support, advice and information on best practice for the education and care of young children from 0 to 6 years with a view to supporting the development of an ECEC workforce.

The ECEC programme aims to train graduates to educate and meet the needs of children aged 0-6 years and to manage childcare facilities. The various biological, cognitive, emotional, and social stages of a child's development are studied.

The programme offers the student the opportunity to study early childhood from differing perspectives – educational, psychological, social, and cultural. The programme also includes tuition in art, music and drama, which provides an extensive portfolio of child-centred activities. Attention is also paid to practical skills needed in this type of work such as child health, exercise and nutrition, and the physical care of children.

Central to the degree is the Professional Work Practice (PWP), i.e. a placement experience of 12 weeks duration in both years 2 and 3 of the programme. This involves supervised hands-on experience in centres approved by the University, for example, preschools, naíonraí, creches, primary schools, and centre for children with special educational needs.

There is an option of international placements with partner organisations in other European programmes in both year 2 and 3 of the programme.

Further Studies
Suitably qualified graduates are eligible to apply for entry to the one year add-on
• Bachelor of Arts (Honours) in Early Childhood Education & Care

Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate programme of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time
On successful completion of MT 572, am I fully qualified to work in an Early Childhood Education & Care setting? Yes.

Is there a pathway to primary school teaching from this programme?
If you progress and successfully complete the BA ECEC (Honours), graduates are eligible to apply for the Professional Master of Education (PME) in Primary Teaching, which is a 2-year Level 9 qualification, as long as they present with the minimum Leaving Certificate requirement in Irish or suitable equivalent. The Department of Education recognises this PME to teach in primary schools.

Contact Information
Dr Judith Butler
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Career Opportunities
Employment opportunities include working in the early childhood education & care industry; children with specific learning needs; children's residential care centres; family and community support centres; and after school services. BA Honours graduates (Level 8) are strongly positioned and fully qualified to take up management roles in each of the above settings.

First Year at a Glance
• Process Led Arts: artistic elements within the disciplines of music, art and drama. The artistic elements will be central to the concepts explored within experiential workshops
• Creative & Critical Thinking: creativity & creative development promotes and extends critical thinking in the context of the young child
• Playful Learning: Birth to 3: fosters student awareness of the significance of play as a fundamental right for all children and its impact on the holistic learning and development of children from birth to age 3
• Development Psychology: psychology of child development, and to enable the student to apply principles of developmental psychology in a variety of ECEC settings

www.mtu.ie/MT572
Montessori Education (Honours)
Oideachas Montessori (Onóracha)

Application: CAO
CAO Code: MT 970
NFQ Level: 8
Award Title: Bachelor of Education (Honours) in Montessori Education
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Bishopsport Campus, Cork

Overview
This programme serves to provide students with a comprehensive understanding of the Montessori approach to the education and care of children in early and middle childhood. Students are supported to develop the requisite knowledge(s), values and competencies to work effectively in a range of education and care settings, in line with current legislation, standards and quality frameworks.

The aim of professional practice placement (years 2 and 3) is to provide students with the opportunity to experience various education and care settings, thus facilitating the professional growth, development and training of the student over the duration of this programme of study.

Learning situations within the working environment facilitate the student to integrate theory and practice and develop competence in practice skills.

Further Studies
Suitably qualified graduates may progress to:
• Teacher Education (PME Primary Teaching, Mary Immaculate College; Maynooth University; Dublin City University; and Marino Institute of Education)
• Intervention (MA in Play Therapy, MTU; MSc in Speech & Language Therapy (Professional Qualification), University of Limerick)
• Leadership (MA in Leadership in Early Years Education and Care, Institute of Technology Carlow, Institute of Technology Sligo, and Technological University of Dublin)

Question Time
What is the difference between a BEd (Hons) in Montessori Education and a BA (Hons) in Early Childhood Education & Care (ECEC)?
While there are strong links between the existing ECEC programme in the department and this Montessori Education programme, there are also significant differences as the latter embeds Montessori philosophy and pedagogy throughout all the practice modules.

While graduates will have a foundation in ECEC in general, they will have specialist knowledge and practices in relation to the Montessori approach to education and care.
This BEd (Honours) in Montessori Education programme incorporates pedagogy relating to children from birth to twelve years of age while the BA in ECEC covers the span from birth to six years of age.

On successful completion of this honours degree, am I qualified to teach at primary school level?
Graduates are qualified to teach in Montessori primary schools in Ireland. These are fee-paying schools where children are educated using the Montessori pedagogy.
Teachers in these schools do not require a Teaching Council number.

Is there a pathway to other primary school teaching from this course?
BEd (Honours) in Montessori Education graduates are eligible to apply for the Professional Master of Education (PME) in Primary Teaching, which is a 2-year Level 9 qualification, provided they present with the minimum Leaving Certificate requirement in Irish or suitable equivalent. The Department of Education recognises this PME to teach in Primary Schools.

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Career Opportunities
• Early childhood education and care practitioner and manager
• School age childcare practitioner and manager
• Montessori teacher in both early childhood and primary education settings
• Development worker with city and county childcare committees
• Quality specialist and/or inclusion specialist with Better Start
• Early Years Specialist with Tusla inspectorate
• Tutor and/or research assistant

Score the Necessary CAO Points and Meet Minimum Leaving Certificate Requirements & Subjects

<table>
<thead>
<tr>
<th>SUBJECTS 0G/H7</th>
<th>SUBJECTS H5</th>
<th>MATHS GRADE</th>
<th>ENGLISH OR IRISH GRADE</th>
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<td>4</td>
<td>2</td>
<td>06/H7</td>
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</tr>
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NOTE: Vetting by an Garda Síochána is a mandatory requirement for this programme.

First Year at a Glance
• Montessori: Child introduces students to the core principles of the Montessori philosophy of education with particular emphasis on the child from birth to three years of age.
• Child Development & Learning explores the requisite knowledge and understanding of children’s development and learning with particular emphasis on children from birth to 12 years.
• Inclusion: Equality & Diversity aims to develop the student’s understanding of equality, diversity and inclusion in early childhood education and care settings in Ireland.
• Learning to Move, Moving to Learn examines the role of movement in a child’s development from birth to age 12; planning, implementing and evaluating physical activity and movement opportunities for children.
• Introduction to the Arts within the disciplines of music, art and drama. The artistic elements are central to the concepts explored within experiential workshops.

www.mtu.ie/MT970
Social Care (Honours)
Cúram Sóisialta (Onóracha)

Application: CAO
CAO Code: MT 974
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Social Care
Duration: 4 Years (8 Semesters)
Places: 16
Location: MTU Kerry North Campus

Overview
Social care is a profession where people work with those who experience marginalisation or disadvantage or who have special needs. Social care practitioners work in a wide variety of settings with a wide variety of people: children and adolescents in residential care, people with learning or physical disabilities, the homeless, people with alcohol/drug dependency, families in the community, older people or recent immigrants to Ireland. Social care practitioners typically work in a direct person-to-person capacity with service users. They will try to provide an environment in which various social, educational and relationship interventions can take place where the service user lives. Work in the sector is usually interdisciplinary. Typically, social care workers, social workers, early childhood care workers and so on work together in teams. This programme is delivered through a blend of lectures, workshops and two full semesters of off-site, supervised practice placement.

In this programme, it is essential that students develop practical working skills in a variety of real-world settings and demonstrate their competence in performing social care roles. To make sure that graduates are fully prepared for the diversity that this job offers, field work visits and placements are an integral part of the programme.

Further Studies
Suitably qualified graduates are eligible to apply to
• Master of Arts in Social Studies (Advanced Professional Practice) at MTU Kerry North Campus or to research at either master or PhD level.

Question Time
What is the difference between a Social Carer and a Social Worker?
A Social Carer will typically work in a direct person-to-person capacity with clients. He or she will seek to provide a caring, stable environment in which various social, educational and relationship interventions can take place in the day-to-day living space of the client.

The Social Worker’s role is to manage the ‘case’, e.g. arranging the residential child care placement in which a child is placed; coordinating case review meetings; negotiating the termination of a placement; and responding to child protection concerns in a given area. (Social Care Ireland 2011)

Contact Information
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Career Opportunities
Due to the broad range of areas covered on the programme, there are a wide variety of career opportunities for graduates, in both the public and the voluntary sector.

Areas include
• Residential care
• Outreach
• Alcohol/drug dependency
• Family support
• Community care
• Support of older people
• Juvenile justice
• Community childcare services
• Carers of children with special needs
• Carers of adults with special needs and/or behavioural difficulties
• Outreach and family support services for children and adults living at home

First Year at a Glance
• Social Care Practice Skills: introduces the professional context of social care work
• Professionalism in Social Care: introduces the fundamental interpersonal, ethical and regulatory dimensions of social care practice
• Sociology and Social Policy: explores the introductory concepts of both disciplines and demonstrates their application to the social care profession
• Creative Arts Interventions: introduces the use of the arts as a significant means of intervention in social care and play-based contexts
• Sociology: introduces key sociological concepts and their application to social care practice
• Law for Social Care: law as it affects the person, the family and society
• Psychology of Normal Development: explores key topics in psychological research and theory on human development across the life span so as to establish a knowledge foundation that will be built upon to ultimately enable an informed, questioning and learning approach to professional social care practice

www.mtu.ie/MT974
Social Care
Cúram Sóisialta

Application: CAO
CAO Code: MT 574
NFQ Level: 7
Award Title: Bachelor of Arts in Social Care
Duration: 3 Years (6 Semesters)
Places: 50
Location: MTU Kerry North Campus

Overview
Social care is a profession where people work with those who experience marginalisation or disadvantage or who have special needs. Social care practitioners work in a wide variety of settings with a wide variety of people: children and adolescents in residential care, people with learning or physical disabilities, the homeless, people with alcohol/drug dependency, families in the community, older people or recent immigrants to Ireland. Social care practitioners typically work in a direct person-to-person capacity with service users. They will try to provide an environment in which various social, educational and relationship interventions can take place where the service user lives. Work in the sector is usually interdisciplinary. Typically, social care workers, social workers, early childhood care workers and so on work together in teams. This programme is delivered through a blend of lectures, workshops, and two full semesters of off-site, supervised practice placement.

In this programme, it is essential that students develop practical working skills in a variety of real-world settings and demonstrate their competence in performing social care roles. To make sure that graduates are fully prepared for the diversity that this job offers, field work visits and placements are an integral part of the programme.

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year)
• Bachelor of Arts (Honours) in Social Care

Question Time

What is the difference between a Social Carer and a Social Worker?
A Social Carer will typically work in a direct person-to-person capacity with clients. He or she will seek to provide a caring, stable environment in which various social, educational and relationship interventions can take place in the day-to-day living space of the client.

The Social Worker’s role is to manage the ‘case’, e.g. arranging the residential child care placement in which a child is placed; coordinating case review meetings; negotiating the termination of a placement; and responding to child protection concerns in a given area. (Social Care Ireland 2011)

Contact Information
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Career Opportunities
Due to the broad range of areas covered on the programme, there are a wide variety of career opportunities for graduates, in both the public and the voluntary sector. Areas include
• Residential care
• Outreach
• Alcohol/drug dependency
• Family support
• Community care
• Support of older people
• Juvenile justice
• Community childcare services
• Carers of children with special needs
• Carers of adults with special needs and/or behavioural difficulties
• Outreach and family support services for children and adults living at home

First Year at a Glance
• Social Care Practice Skills: introduces the professional context of social care work
• Professionalism in Social Care: introduces the fundamental interpersonal, ethical and regulatory dimensions of social care practice
• Sociology and Social Policy: explores the introductory concepts of both disciplines and demonstrates their application to the social care profession
• Creative Arts Interventions: explores key topics in psychological research and theory on human development across the life span so as to establish a knowledge foundation that will be built upon to ultimately enable an informed, questioning and learning approach to professional social care practice

www.mtu.ie/MT574
The Social Care Workers Registration Board is currently preparing for the registration of the profession (CORU). It is anticipated that the Social Care Workers Registration Board will open in 2022, at the earliest. CORU’s work, in the meantime, includes the approval of education courses and requirements for registration including the code of Professional Conduct and Ethics. CORU will be assessing social care courses across Ireland for approval. In the case of MTU securing approval, graduates from the programme could apply for registration with CORU.

Overview

The course aims to strike a balance between theory and practice. Material from various disciplines is organised and presented in ways which enable students to see its relevance to the objectives of the course, to the placement settings and their own supervised practice. The student will be given the opportunity of acquiring some practical skills needed in this type of work, such as creative food preparation, and sport and leisure. There is work placement in each year of the course. Such placements enable the student to apply theory taught on the course to a professional placement and to appreciate the number of, and variety of, relevant work settings and employments such as residential care centres, community projects, youth centres, family casework, probation and welfare agencies, hostels for adolescents/young adults, etc.

There is work placement in each year of the course. Such placements enable the student to apply theory taught on the course to a professional placement and to appreciate the number of, and variety of, relevant work situations. NB: While evidence or medical certification will explain an absence, it does not reduce the attendance requirements of placement (minimum placement hours) as stipulated in MTU’s work placement module descriptors. Students who miss placement hours will be required to make up these hours.

Further Studies

Suitably qualified graduates are eligible to apply for entry to

• Bachelor of Arts (Honours) in Social Care Work

Suitably qualified graduates of the BA (Honours) in Social Care Work may apply for a range of postgraduate courses such as Occupational Therapy, Community Development, and Social Care Work.

Question Time

What is the difference between a Social Care Worker and a Social Worker?

A Social Care Worker will typically work in a direct person-to-person capacity with clients. He or she will seek to provide a caring, stable environment in which various social, educational and relationship interventions can take place in the day-to-day living space of the client.

The Social Worker’s role is to manage the ‘case’, e.g. arranging the residential child care placement in which a child is placed; coordinating case review meetings; negotiating the termination of a placement; and responding to child protection concerns in a given area. (Social Care Ireland 2011)

Am I fully qualified to work as a Social Care Worker after successfully completing the three years study in MT 573?

The regulatory landscape for the profession is changing. We recommend that you keep informed of the work of the Social Care Workers Registration Board (CORU). CORU’s work includes the approval of education courses. At the time of preparing this prospectus, MTU is preparing its programme in consideration of CORU’s programme approval process.

Can I convert to a Social Worker after completing the Social Care Work qualification, i.e. BA in Social Care Work MT 573?

To become a social worker, you will need to complete a Master of Social Work (MSW) Level 9.

How much work placement do I have?

Year 1: 6 week placement (180 hours)
Year 2: 12 week placement (280 hours)
Year 3: 12 week placement (360 hours)

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Career Opportunities

It is anticipated that the Social Care Workers Registration Board will open in 2022, at the earliest. In the case of MTU securing approval, graduates from the programme could apply for registration.

Graduates are employed in a wide variety of care settings and employment such as residential care centres, community projects, youth centres, family casework, probation and welfare agencies, hostels for adolescents/young adults, etc.

• Social care services for adults & children with additional needs-residential/community care
• Homeless services
• Community care teams in elder care
• Integrated care teams in mental health care
• Family support services
• Disability (intellectual and physical) support services
• Addiction services
• Residential care centres
• Community projects
• Family casework
• Probation and welfare agencies
• Hostels for adolescents
• Travellers centres
• Centres for the elderly
• Centres for Asylum seekers
• Youth centres

First Year at a Glance (indicative)

• Practice preparation
• Work placement
• Academic, interpersonal skills development
• Creativity, innovation and teamwork
• Psychology for social care work
• Sociology for social care work
<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 848</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Agricultural Engineering</td>
<td>76</td>
</tr>
<tr>
<td>MT 748</td>
<td>7</td>
<td>Bachelor of Engineering in Agricultural Engineering</td>
<td>77</td>
</tr>
<tr>
<td>MT 859</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Architectural Technology</td>
<td>78</td>
</tr>
<tr>
<td>MT 759</td>
<td>7</td>
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<td>79</td>
</tr>
<tr>
<td>CK 606</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Architecture</td>
<td>80</td>
</tr>
<tr>
<td>MT 847</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Automotive Business Management and Technology</td>
<td>81</td>
</tr>
<tr>
<td>MT 747</td>
<td>7</td>
<td>Bachelor of Science in Automotive Technology and Management</td>
<td>82</td>
</tr>
<tr>
<td>MT 839</td>
<td>8</td>
<td>Bachelor of Engineering (Honours) in Biomedical Engineering</td>
<td>83</td>
</tr>
<tr>
<td>MT 739</td>
<td>7</td>
<td>Bachelor of Engineering in Biomedical Engineering</td>
<td>84</td>
</tr>
<tr>
<td>MT 838</td>
<td>8</td>
<td>Bachelor of Engineering (Honours) in Chemical and Biopharmaceutical Engineering</td>
<td>85</td>
</tr>
<tr>
<td>MT 832</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Civil Engineering</td>
<td>86</td>
</tr>
<tr>
<td>MT 732</td>
<td>7</td>
<td>Bachelor of Engineering in Civil Engineering</td>
<td>87</td>
</tr>
<tr>
<td>MT 731</td>
<td>7</td>
<td>Bachelor of Engineering in Civil Engineering</td>
<td>88</td>
</tr>
<tr>
<td>MT 758</td>
<td>7</td>
<td>Construction (Common Entry) (BSc Award Options)</td>
<td>89</td>
</tr>
<tr>
<td>CAO Code</td>
<td>NFQ Level</td>
<td>Course</td>
<td>Page</td>
</tr>
<tr>
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<td>------</td>
</tr>
<tr>
<td>MT 856</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Construction Management</td>
<td>90</td>
</tr>
<tr>
<td>MT 845</td>
<td>8</td>
<td>Bachelor of Engineering (Honours) in Electrical Engineering</td>
<td>91</td>
</tr>
<tr>
<td>MT 745</td>
<td>7</td>
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<td>92</td>
</tr>
<tr>
<td>MT 846</td>
<td>8</td>
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<td>93</td>
</tr>
<tr>
<td>MT 746</td>
<td>7</td>
<td>Bachelor of Engineering in Electronic Engineering</td>
<td>94</td>
</tr>
<tr>
<td>MT 830</td>
<td>8</td>
<td>Engineering (Honours) (Common Entry) (BEng (Honours) Award Options)</td>
<td>95</td>
</tr>
<tr>
<td>MT 761</td>
<td>7</td>
<td>Bachelor of Engineering in Environmental Engineering</td>
<td>96</td>
</tr>
<tr>
<td>MT 860</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Interior Architecture</td>
<td>97</td>
</tr>
<tr>
<td>MT 760</td>
<td>7</td>
<td>Bachelor of Science in Interior Architecture</td>
<td>98</td>
</tr>
<tr>
<td>MT 835</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Manufacturing Engineering</td>
<td>99</td>
</tr>
<tr>
<td>MT 735</td>
<td>7</td>
<td>Bachelor of Engineering in Mechanical and Automation Engineering</td>
<td>100</td>
</tr>
<tr>
<td>MT 834</td>
<td>8</td>
<td>Bachelor of Engineering (Honours) in Mechanical and Manufacturing Engineering*</td>
<td>101</td>
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<tr>
<td>MT 836</td>
<td>8</td>
<td>Bachelor of Engineering (Honours) in Mechanical Engineering</td>
<td>102</td>
</tr>
<tr>
<td>MT 736</td>
<td>7</td>
<td>Bachelor of Engineering in Mechanical Engineering</td>
<td>103</td>
</tr>
<tr>
<td>MT 857</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Quantity Surveying</td>
<td>104</td>
</tr>
<tr>
<td>MT 831</td>
<td>8</td>
<td>Bachelor of Engineering (Honours) in Structural Engineering</td>
<td>105</td>
</tr>
<tr>
<td>MT 837</td>
<td>8</td>
<td>Bachelor of Engineering (Honours) in Sustainable Energy Engineering</td>
<td>106</td>
</tr>
</tbody>
</table>

* This course is under development and subject to academic council approval.
Agricultural Engineering (Honours)
Innealtóireacht Talmhaíochta (Onóracha)

Application: CAO
CAO Code: MT 848
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Agricultural Engineering
Duration: 4 Years (8 Semesters)
Places: 16
Location: MTU Kerry South Campus

Overview
Agricultural engineering is a specialised branch of engineering, concerned with the design, manufacture, modification and maintenance of equipment used in agriculture. As a student of MTU’s highly regarded agricultural engineering programmes, you will work in state-of-the-art facilities and graduate with a degree that enjoys an excellent reputation in the industry.

In year 3, students participate in a structured period of work experience in a relevant professional setting. It is while on placement that students really see the value of their academic learning in a real-life, working environment. Your placement lays the foundations of your personal career path. It’s all about developing skills, gaining knowledge and cultivating the attitude needed to engineer a thriving career. This programme gives you an excellent knowledge of agricultural engineering and in year four you gain vital expertise in management, marketing and finance.

Our world-class facilities include agricultural engineering workshops, machinery halls, science laboratories, computer and electronics laboratories, a mechanical engineering laboratory, a machine and welding shop and a power-units garage.

In first year, students cover core modules including engineering mathematics and engineering science, together with specialised topics like agri-tractor technology. As the course progresses, you will deepen your knowledge in core areas and study additional modules in areas such as control engineering and robotics and machine design.

Our graduates make meaningful contributions to the productivity, efficiency and competitiveness of agricultural services and manufacturing companies. They develop new products and adapt existing technologies to drive productivity and progress in the agricultural sector, both here and abroad.

Further Studies
Suitably qualified Level 8 Honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Accreditation
Our awards are accredited by both the Institution of Agricultural Engineers (UK) and by Engineers Ireland.

Contact Information
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Career Opportunities
Agricultural engineers take up a wide variety of employment opportunities in the agricultural engineering industry, for example

- Organisation of the manufacturing process
- Health and safety management
- Maintenance management
- Marketing and strategic planning
- Process design
- Product design & development
- Operations management
- Quality management
- Specification of rural structures
- Use of geographical information systems pertaining to agriculture

First Year at a Glance

- Engineering Drawing and CAD: introduces the necessary draughting skills which are required by technicians and engineers in an engineering or design environment
- Grassland Management: learn about grassland management to meet production requirements in current agricultural practices
- Agri Tractor Technology: learn about reciprocating piston engines, basic transmission systems, basic braking systems, and basic hydraulic systems
- Crop Science: the fundamentals of agronomy including crop morphology, identification of species, and crop physiological requirements
- Farm Safety and Engineering Communication: focuses on developing greater awareness and knowledge of agricultural health and safety
- Crop Production: provides knowledge of complete growth cycles for the major agricultural crop groups
- Soil Science: introduces the biological, chemical and physical properties of soil
- Farm Machinery: learn about modern farm machinery
- Engineering Mathematics: essential numerical, algebraic and graphical skills for studying engineering

www.mtu.ie/MT848
Agricultural Engineering
Innealtóireacht Talmhaíochta

Application: CAO
CAO Code: MT 748
NFQ Level: 7
Award Title: Bachelor of Engineering in Agricultural Engineering
Duration: 3 Years (6 Semesters)
Places: 32
Location: MTU Kerry South Campus

Overview
Agricultural engineering is a specialised branch of engineering, concerned with the design, manufacture, modification and maintenance of equipment used in agriculture. As a student of MTU’s highly regarded Agricultural Engineering programmes, you will work in state-of-the-art facilities and graduate with a degree that enjoys an excellent reputation in the industry.

In year 3, students participate in a structured period of work experience in a relevant professional setting. It is while on placement that students really see the value of their academic learning in a real-life, working environment. Your placement lays the foundations of your personal career path. It’s all about developing skills, gaining knowledge and cultivating the attitude needed to engineer a thriving career. This programme gives you an excellent knowledge of agricultural engineering and in year four you gain vital expertise in management, marketing and finance.

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Our graduates make meaningful contributions to the productivity, efficiency and competitiveness of agricultural services and manufacturing companies. They develop new products and adapt existing technologies to drive productivity and progress in the agricultural sector, both here and abroad.

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year)
• Bachelor of Science (Honours) in Agricultural Engineering

Accreditation
Our awards are accredited by both the Institution of Agricultural Engineers (UK) and by Engineers Ireland.

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Career Opportunities
Agricultural engineers take up a wide variety of employment opportunities in the agricultural engineering industry, for example

• Organisation of the manufacturing process
• Health and safety management
• Maintenance management
• Marketing and strategic planning
• Process design
• Product design & development
• Operations management
• Quality management
• Specification of rural structures
• Use of geographical information systems pertaining to agriculture

First Year at a Glance
• Engineering Drawing and CAD: introduces the necessary draughting skills which are required by technicians and engineers in an engineering or design environment
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• Soil Science: introduces the biological, chemical and physical properties of soil
• Farm Machinery: learn about modern farm machinery
• Engineering Mathematics: essential numerical, algebraic and graphical skills for studying engineering

www.mtu.ie/MT748
The core of the learning experience takes place in the studio through technical design projects and the application and integration of knowledge and skills explored in lecture modules. The focus of the year 1 studio is the exploration of simple structures in timber, steel, concrete and masonry and construction detailing.

Modules include Construction Technology Materials and Structure (timber, steel, concrete, and masonry), Environmental Science (climate change, materials, services, heat), while skills developed include teamwork, problem solving, communication, drawing, and computer graphics.
Overview
The architectural technologist is involved with the technical issues of the architectural design process and plays the role of a technical designer. They are a team player who provides an expertise in technical design principles and knowledge in the development of the built environment. They are an organiser and coordinator of the diverse disciplines involved in the design and construction process.

Formal work placement (minimum of five weeks) is an integral element of the course and takes place in year 3. The placement programme will familiarise the student with work practices and procedures and provide him/her with the opportunity to observe the practical application of theoretical knowledge gained on his/her programme. The placement is supported by a member of academic staff in MTU together with a workplace mentor. The aim of the industry placement is to introduce the student to structured employment in a relevant work sector and to develop the student’s understanding of the organisation, its procedures and technology.

Over the duration of the course, the student develops skills related specifically to architectural technology as well as an appreciation of the role and requirements of other members of the building team. A graduate of architectural technology is a critical member of the design team, as s/he has an excellent appreciation and knowledge of the other design team discipline roles, and is involved in the coordination and development of a project at all stages.

Further Studies
Subject to availability of places, suitably qualified graduates are eligible to apply for entry to year 4 (final year) of:
• Bachelor of Science (Honours) in Architectural Technology

Question Time
Is the course accredited?
Yes. This course is accredited by the Royal Institute of the Architects of Ireland.

How much of my time is devoted to studio and project work?
Approximately 50% of time is devoted to studio and project work.

How helpful is it to have Design and Communication Graphics at Leaving Certificate level?
Design and Communication Graphics would provide a solid foundation for this programme. However, it is not an entry requirement.

What is the difference between architectural technology and architecture?
Architectural Technology can be described as the technical design of the building while architecture focuses on the creative aspects of spatial and aesthetic design in the total building.

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Career Opportunities
Graduates may specialise in certain building typologies or concentrate on a particular area such as technical design, technology, architectural conservation or project management.

Graduates may work as part of a team in private practice, in the architectural section of a commercial organisation, in a government department or local authority, or in a related construction activity.

First Year at a Glance
The core of the learning experience takes place in the studio through technical design projects and the application and integration of knowledge and skills explored in lecture modules.

The focus of the year 1 studio is the exploration of simple structures in timber, steel, concrete and masonry and construction detailing. Modules include Construction Technology Materials and Structure (timber, steel, concrete, and masonry), Environmental Science (climate change, materials, services, heat), while skills developed include teamwork, problem solving, communication, drawing, and computer graphics.

www.mtu.ie/MT759
Architecture (Honours)
Ailtireacht (Onóiracha)

Application: CAO
CAO Code: CK 606
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Architecture
Duration: 4 Years (8 Semesters)
Places: 45
Location: Cork Centre for Architectural Education, Douglas Street, Cork

Overview
The BSc (Honours) in Architecture is offered jointly by MTU and UCC. This is a studio and project-led course integrating the three pillars of architectural education; design, technology and the humanities. The first year of study provides a foundation in design and the built environment, appropriate to both the discipline of architecture and associated design courses. In addition to learning drawing skills, students will be expected to become proficient in photography, model-making and digital representation of architecture.

The following years of study will become progressively more architecturally focused whilst still allowing and encouraging experimentation and research into associated disciplines. Transferrable skills in communication, team working, computer aided design, and management are also developed.

Field trips: Students will be expected to participate in class field trips, visiting project sites, and also study trips to Irish and other European cities. There will be a cost of approximately €300 in year 1 for a materials pack. You should also allow €300 for modelmaking costs, and €400 per annum for field trips plus spending money.

The CCAE has Erasmus links with colleges in Estonia, Austria and Italy.

This exciting and innovative honours degree programme has been designed in response to the guidelines of the UNESCO/UIA Charter for Architectural Education, the European Qualifications Directive (2005/36/EC) relating to the architectural profession, and the Royal Institute of Architects of Ireland (RIAI) Education Policy.

Accreditation
To gain accreditation by the RIAI and register as a professional architect, graduates of this programme must also hold a Master of Architecture along with a Postgraduate Certificate in Architectural Professional Practice and carry out two years’ work experience in an architect’s office. Registration provides for legal protection of the title of "Architect", as required by the Irish Building Control Act 2007.

Further Studies
Suitably qualified graduates will be eligible to enter the Master of Architecture programme.

Question Time
Must I submit a portfolio?
No

How is my time split between MTU Bishopstown Campus and UCC?
This is a joint programme between MTU and UCC and is housed in the Cork Centre for Architectural Education, Douglas Street, Cork. This building houses state-of-the-art technology, including IT, workshop space, and 3D laser cutting machines.

How much of my time is devoted to studio and project work?
50% is devoted to studio and project work.

What kind of skills do I need?
The architectural programme requires a broad set of skills. You need to be a creative, innovative, logical, critical thinker... think outside the box! An artistic ability will be important although the design studio work will help develop this. A good grasp of maths, English and a science-based subject would also be useful.

Contact Information
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Career Opportunities
Graduates may specialise in certain types of buildings, or concentrate on a particular area such as architectural design, urban design, technology, architectural conservation, and computer-based modelling. Graduates may work as part of a team in private practice, or in the architectural section of a commercial organisation or a government department or local authority.

First Year at a Glance

- Design Studio: basic design projects and sketchbooks involving individual and group work; basic graphic techniques; sketching and painting; pencil drawing to scale; freehand drawing; model-making; and photography
- Construction, Materials and Structures: introduction to the basic principles which are pertinent to the issues of building construction and materials, structural design and analysis for architecture
- Applied Technology Studio: preparation of technical drawings and models; design of components for simple building types; options for construction and detailing of simple building types; modelling and testing the behaviour of simple structural members subjected to forces
- History and Theory of Architecture: examines the spatial, formal and structural components of key buildings from Ancient Greece through the Roman, early Christian, Byzantine, Romanesque and Gothic periods to the Renaissance, Baroque to Post-Modern, reflecting on how these responded to the cultures and societies in which they were produced

www.mtu.ie/CK606
Overview
Automotive Business Management and Technology is an exciting honours degree programme being offered by MTU to provide students with the knowledge and skills necessary to meet the needs of the ever-changing automotive sector.

This course has been developed in conjunction with the automotive industry to meet the specific requirements of the industry and therefore provide graduates with significant advantages when seeking employment in the automotive sector. Particular emphasis is placed on course content that prepares students with the required blend of business and technical aspects to enable them achieve successful and rewarding careers within the automotive industry. The mixture of management, financial, legal and strategic analysis modules in particular will provide graduates with opportunities for rapid career advancement. The programme is delivered through a combination of theory and practical oriented modules.

A unique aspect of the programme being the integration of dealer management software use within core modules which will ensure that graduates possess the most up to date and advanced skills required by key management personnel within the automotive sector.

Work placement incorporated in year 3 provides the opportunity to apply learned knowledge and skills, while gaining valuable industry experience and unearthing potential employment opportunities for graduates. The final year project facilitates close working relationships between students and their preferred area within the automotive industry. Work placement can be undertaken in any suitable organisation where it is deemed that students will be able to achieve the learning outcomes for the module. This includes placements abroad.

Further Studies
Graduates who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Career Opportunities
A wide range of career opportunities exist at all levels of the automotive industry ranging from motor dealerships to vehicle distributors, fleet operators, consultancy, business finance and sales positions.

- Sales, service and parts department management roles within motor dealerships
- Administration, management, marketing roles within motor vehicle distributors
- Vehicle parts supplier marketing and management roles
- Vehicle fleet operator management positions
- Consultancy and training roles within DMS providers to the automotive industry

First Year at a Glance
- Automotive Administration: theory and practice providing an overview of auto industry structure and operations, including basic dealer management software functions
- Marketing and Management: introduction to the basic concepts of management and marketing and their application in automotive businesses
- Engine Technology: theory based instruction on engine construction and operating principles
- Automobile Electrical Systems: theory and practical application of automobile electrical and electronic systems
- Vehicle Dynamics: theory based instruction on vehicle running gear and transmission systems
- Garage Practice: practical experience of motor vehicle engine, transmission and running gear systems
- Automotive Science: introduction to scientific principles relating to automobile design, operation and performance
Automotive Technology and Management
Teicneolaíocht agus Bainistíocht Uathghluaisneach

Application: CAO
CAO Code: MT 747
NFQ Level: 7
Award Title: Bachelor of Science in Automotive Technology and Management
Duration: 3 Years (6 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

Overview
Motor vehicle technology and the motor industry in general have undergone dramatic changes in recent times. Technological advances have made vehicles more efficient, more environmentally friendly, and safer, whilst at the same time strict standards are being enforced by manufacturers, distributors and retailers.

The motor and transport industries require highly qualified people at supervisory and management level. This course is designed to take account of these advances and it prepares graduates for employment within such a dynamic industry.

The course has a unique combination of theoretical and applied areas of study in conjunction with relevant business subjects. This course aims to provide the graduate with the practical, analytical, managerial, and interpersonal skills necessary for a successful career within the automotive industry.

The course is taught through a combination of lectures, practical work and assignments related to practical aspects, e.g. motor vehicle technology, garage practice, automobile electronics, advanced diagnostics, CAD/vehicle design, etc.

Graduates will have a comprehensive understanding of the wider business and economic context which the automotive sector operates within, and an appreciation of the importance of high ethical standards within the automotive sector.

Further Studies
Degree holders who achieve the specified level of academic performance may progress to the one year add on
- Bachelor of Science (Honours) in Transport Management

Question Time
Is there work placement during the course?
Work placement is incorporated for those who progress to the one year add on Bachelor of Science (Honours) in Transport Management programme.

Can I obtain a Higher Certificate after two years?
Yes, students who successfully complete year 2 and do not wish to progress to year 3 will receive a Higher Certificate in Engineering in Automotive Technology and Management

Can I become a motor mechanic from the course?
No, to become a motor mechanic requires registration with Solas and completing an apprenticeship.

Contact Information
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Career Opportunities
This degree provides varied and rewarding career opportunities in many types of enterprise throughout the industry ranging from motor dealerships to vehicle manufacturing and transport companies. Employment opportunities include supervisory, management and technical positions within sales and after-sales sectors of the motor, transport, and fleet industries.

The degree lends itself towards a career within vehicle distributors/manufacturers along with vehicle assessing. Business start-up opportunities are also possible.

- Motor dealerships: sales and after-sales departments
- Transport and logistics companies
- Motor vehicle distributor organisations
- Motor vehicle assessors

First Year at a Glance
- Engine Technology: classroom based instruction on engine construction and operating principles
- Automotive Science: scientific principles relating to automobile design and operation
- Automobile Electrical Systems: the electrical and electronic systems which are used to provide comfort, safety & efficiency in modern vehicles
- Garage Practice: practical knowledge and workshop experience of modern motor vehicles
- Automotive Administration: management of the service system using computer systems for e.g. parts ordering and tracking, monitoring, billing for the service operation
- Vehicle Dynamics: classroom based instruction on vehicle transmission and running gear construction and operating principles
- Automotive Mathematics: fundamental Mathematical calculations and problem solving for automotive applications

www.mtu.ie/MT747
Biomedical Engineering (Honours)
Innealtóireacht Bhithleighis (Onóracha)

Application: CAO
CAO Code: MT 839
NFQ Level: 8
Award Title: Bachelor of Engineering (Honours) in Biomedical Engineering
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
Biomedical engineering combines engineering with an appreciation of the functioning of the human body, whether healthy, injured or diseased. The medical device sector in Ireland is very strong; there are 300+ medical technology companies in Ireland, exporting €12.6b worth of product annually and employing 32,000 people, contributing 8% of Ireland’s total merchandise exports. Products include prosthetic devices to improve quality of life, disposable plastic and wound care products, and precision implants including pacemakers, microelectronic devices, orthopaedic implants, diagnostics, contact lenses and stents. In the clinical context, biomedical engineers play a key role in designing, sourcing and maintaining equipment, facilities and services within hospitals.

The course covers topics from the design and development of artificial joints, to equipment for medical diagnosis and treatment, to the implanting of biomaterials or biomedical devices in the human body. Biomedical engineers are therefore required at all stages from product design, product manufacture, technical support and interfacing with medical users in clinical environments. Biomedical engineering uses engineering principles to understand and control biological systems and requires a working knowledge of physiology, anatomy, and biological science.

This course integrates the study of biological systems, biomedical devices and clinical engineering with traditional mechanical, electrical and manufacturing engineering. Projects are carried out in conjunction with industry, with medical practitioners, and with the Biomedical Engineering unit of Cork University Hospital.

Students have the opportunity to get work placement or internship in industry in Ireland or abroad or in a research laboratory in Ireland or with one of our partner institutions abroad (France, Germany, Italy, UK, etc.).

Accreditation
The BEng (Hons) in Biomedical Engineering is fully accredited by Engineers Ireland at the Bachelor (Honours) Level 8 educational standard. Further learning is required to meet the educational standard for Chartered Engineer.

Further Studies
At the end of year 3, subject to a minimum of a H2.2 standard achieved in year 3, students may elect to transfer to the integrated MEng in Biomedical Engineering (level 9) programme comprising 2 further years (4 semesters) of study. Suitably qualified Level 8 Honours graduates are eligible to progress to taught masters programmes or to research at either masters or PhD level.

Question Time
What is the difference between Biomedical science and Biomedical engineering?
Biomedical engineering combines engineering principles with an appreciation of the functioning of the human body to design and manufacture products or provide technical support. Biomedical engineers work in hospitals, in manufacturing facilities, and in the R&D domain.

Biomedical scientists investigate samples of tissue and body fluids in order to diagnose disease and monitor the treatment of patients, therefore, it is largely laboratory based.

Is there a scholarship available for the course?
Yes. The MTU-DePuy Synthes Biomedical Engineering scholarship is worth €3,000 per year for the successful candidate. DePuy Synthes (a Johnson & Johnson company) is a major multinational employer in the Cork region, manufacturing artificial joints in Ringaskiddy in Cork. The support of DePuy Synthes for the scholarship is a major endorsement of the relevance of the course to the biomedical engineering industry.

Contact Information
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Career Opportunities
Graduates can look forward to careers in the medical device industry, in the design and manufacture of medical devices, in research roles within industry or in academic research. Graduates can also enter the hospital or clinical environment to work as clinical engineers.

- Biomedical device design and manufacture
- Research & development
- Engineering support within clinical environments
- Regulated industries e.g. bio pharma/food/electronics

First Year at a Glance
- Engineering Physics: application of physics to engineering problems
- Properties of Materials: appropriate choice of materials to use for a particular engineering/device application
- Biomechanics: analysis of the joint/muscle forces on the body
- Engineering Chemistry: application of chemistry to engineering problems
- Thermo/Fluid Mechanics: application of hot and cold fluid systems in engineering
- CAD: computer-aided design similar to the Leaving Certificate subject Design and Communication Graphics
- Practical Manufacturing of Metal Components
- Anatomy
- Mathematics
- Biology

www.mtu.ie/MT839
Overview

Biomedical engineering combines engineering with an appreciation of the functioning of the human body, whether healthy, injured or diseased. The medical device sector in Ireland is very strong; there are 300+ medical technology companies in Ireland, exporting €12.6b worth of product annually and employing 32,000 people, contributing 8% of Ireland’s total merchandise exports. Products include prosthetic devices to improve quality of life, disposable plastic and wound care products, and precision implants including pacemakers, microelectronic devices, orthopaedic implants, diagnostics, contact lenses and stents. In the clinical context, biomedical engineers play a key role in designing, sourcing and maintaining equipment, facilities and services within hospitals. The course is delivered through formal lectures, tutorials, practical and project work. There are a number of dedicated biomedical engineering laboratories containing leading edge technology. These facilitate teaching and research both at undergraduate and postgraduate level and include:

- Gait analysis laboratory
- Biomaterials laboratory
- Hurley helmet testing rig
- Instron dynamic testing machine
- Non-contact 3D light scanner
- Rapid prototyping machine

Projects are carried out in conjunction with industry including medical device companies, with medical practitioners and with the Biomedical Engineering Unit of Cork University Hospital.

Accreditation

This course in Biomedical Engineering is fully accredited by Engineers Ireland for Associate Engineer eligibility.

Further Studies

Subject to availability of places, suitably qualified graduates may apply to year 3 of:
- Bachelor of Engineering (Honours) in Biomedical Engineering or the one year add-on
- Bachelor of Engineering (Honours) in Advanced Manufacturing Technology

Question Time

What does a biomedical engineer produce?

Medical devices, instrumentation, or processes in a clinical or manufacturing environment.

What is the difference between biomedical science and biomedical engineering?

Biomedical engineering combines engineering principles with an appreciation of the functioning of the human body, whether healthy, injured or diseased in order to design and manufacture products or provide technical support. Biomedical engineers can work in hospitals, in manufacturing plants and in research and development environment.

Biomedical scientists investigate into samples of tissue and body fluids in order to diagnose disease and monitor the treatment of patients. Therefore, it is largely laboratory based.

Are there any events I should attend to learn more about Biomedical Engineering?

MTU Bishopstown Campus usually hosts the Cork Mechanical, Manufacturing & Biomedical Engineering Annual Exhibition in April, the largest exhibition of its kind in Ireland. Please see www.mtu.ie for details.

Contact Information

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Career Opportunities

Graduates will be qualified to work as biomedical engineering technologists within the healthcare, medical device industries, in research and development facilities, and also in clinical/hospital environments.

- Biomedical device design and manufacturing
- Research & development
- Engineering Support within Clinical Environments
- Regulated industries e.g. healthcare/food

First Year at a Glance

- Material Science: understanding the nature and properties of engineering materials
- Mechanics: understanding the performance of engineering materials when subject to external loads and forces
- Thermo/Fluid Mechanics: application of hot and cold fluid systems in engineering
- CAD: computer-aided design similar to the Leaving Certificate subject Design and Communication Graphics
- Instrumentation: understanding the operation and behaviour of medical equipment and devices
- Anatomy
- Mathematics
- Biology

www.mtu.ie/MT739
Chemical & Biopharmaceutical Engineering (Honours)
Innealtóireacht Cheimiceach & Bithchógaisíochta (Onóracha)

Application: CAO
CAO Code: MT 838
NFQ Level: 8
Award Title: Bachelor of Engineering (Honours) in Chemical & Biopharmaceutical Engineering
Duration: 4 Years (8 Semesters)
Places: 30
Location: MTU Bishopstown Campus, Cork

Overview
Chemical engineering is ideally suited to students with ability in mathematics and science, who enjoy problem solving and aspire to well-paid, satisfying jobs at home and abroad. Chemical engineering is all about change; creating life enhancing products and services by applying scientific and mathematical understanding to design, control and improve processes that change raw materials into useful products. Chemical engineers are world leaders in producing medicines, clean energy and water, and other key products in a cost effective, safe and environmentally friendly manner.

Lectures are supplemented by laboratory sessions, project work and team exercises. The course is comprehensive, addressing sectors from heavy chemicals like oil and gas to high value products like pharmaceuticals, as well as issues like energy efficiency, waste minimisation and environmental protection, all in the context of safe and sustainable operations.

Accreditation
This degree programme has IChemE accreditation at the “M-Standard” issued by the Institution of Chemical Engineers. Qualifications accredited at M-Standard meet the full academic requirements for Chartered Member (MlChemE) and Chartered Engineer (CEng). M-Standard recognises integrated degrees that provide both a solid academic foundation (in chemical engineering) plus advanced chemical engineering knowledge and skills. This IChemE accreditation of the Chemical and Biopharmaceutical Engineering programme to a M-Standard is equivalent to a UK MEng degree which is internationally recognised to this standard. This offers our graduates enhanced qualifications with the potential opportunities to work and compete in a global market. The programme is also accredited by Engineers Ireland, which represents all engineering disciplines in Ireland.

Further Studies
Suitably qualified graduates are eligible to apply for a postgraduate degree at MTU:
• MEng in Chemical and Biopharmaceutical Engineering (Taught)
• MEng (by Research)
• PhD

Question Time
How proficient at Mathematics should I be?
As with all engineering programmes, Mathematics is used as a tool to communicate ideas and to solve problems so you should be comfortable with Mathematics. See minimum Leaving Certificate Maths requirements above.

Can I pursue a career in pharmaceuticals?
Many graduates pursue careers in the fine chemical, pharmaceutical and biopharmaceutical industries where they are involved with plant design, commissioning, operations and optimisation.

Who will be teaching me?
The lecturers are chemical engineers and most have spent significant amounts of time working in the process industry, and as a result can bring real life experiences to the classroom.

Will I have lectures where there are hundreds of other students?
MTU prides itself on the fact that all courses are taught in a small class environment (typically 30 students per class), ensuring that students have every opportunity to interact with their lecturers and succeed in their studies.

Is there work placement?
Yes. A salaried placement is undertaken, starting at the end of year 3 and continuing into the second semester of year 4, and is spent either in industry or with a consultancy (subject to availability).

Contact Information
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Career Opportunities
Many of our graduates remain in technical support roles, others develop into managerial positions as production, engineering, human resources, and general managers. The “typical” graduate is engaged in the region, in the greater Munster area, in the pharmaceutical and biopharmaceutical sector. Starting salary for chemical engineers is usually the highest of all engineers, reflecting the world-wide demand for their skills.

• Pharmaceuticals & Biopharmaceuticals
• Food & Beverages
• Oil & Gas
• Energy & Environment
• Building Products
• Consultancy

First Year at a Glance
• Mathematics: is the language of engineering, students will use mathematics to model, analyse, predict and control the behaviour of complex chemical and pharmaceutical systems
• Communications: students need to communicate effectively on complex engineering activities with the engineering community and with society at large
• Engineering Science: students will learn the fundamentals of physics, chemistry and biology to allow them to understand the scientific basis of chemical engineering
• Engineering Laboratory Practices: students will learn how to operate items of chemical and biopharmaceutical process equipment in a professional and safe manner, supporting theory learning
• Principles of Process Engineering: students are introduced to material and energy balances on reactive processes and unreacative processes
• Cellular Microbiology: students will learn how cells can be used to produce useful biotechnology products
Civil Engineering (Honours)
Innealtóireacht Shibhialta (Onórchácha)

Application: CAO
CAO Code: MT 832
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Civil Engineering
Duration: 4 Years (8 Semesters)
Places: 16
Location: MTU Kerry South Campus

Overview
Civil engineering is all about the assessment, planning, design, construction, operation and maintenance of the different types of infrastructural works that society needs, from roads and rail systems to bridges, harbours, airports, energy and utility services, and water supply schemes. It is a broad discipline which also includes structural and environmental engineering. Environmental engineers apply engineering principles to improve the quality of our environment and work towards the creation of healthy water, air and land resources.

This honours degree includes both technical and management skills and we have been very careful to maintain the correct balance between theory and practical skills, to emphasise team working and professionalism and to incorporate industry standard information technology. Graduates should be creative problem solvers who can help to shape the future.

A 12-week work placement is a central feature of the programme in year three. It’s while on placement that you really see the value of your academic learning in a real-life working environment. Your placement lays the foundations of your career path and significantly boosts your employability at the end of the course. Students have the option to graduate after year 3 with a level 7 qualification.

The emphasis in year 4 is to ensure that graduates are able to work effectively as a professional engineer and are ready to enter the workplace. This is achieved by providing a comprehensive simulated design office experience where students working in teams, plan, design and prepare drawings for a real-life engineering project from the concept phase to the construction.

Further Studies
Suitably qualified Level 8 graduates may apply for a wide variety of taught master programmes both in Ireland and the UK. There is a clear pathway for graduates who wish to pursue further studies and ultimately gain professional engineering qualifications such as Chartered Engineer.

Question Time
- Do I need to have studied any specific subjects in my Leaving Certificate to do this course?
  - Other than English or Irish and Maths (see entry requirements above), there are no specific subject requirements. Modules are taught on the assumption that students have no prior knowledge of the subject.

Contact Information
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Career Opportunities
Civil engineering offers challenging and varied employment, with opportunities to travel. This course provides a broad range of marketable, practical and professional skills such as site surveying, engineering design and detailing (3D CAD), design office and site administration, laboratory testing, project management and health and safety. Civil engineering graduates are employed, both in Ireland and abroad, by contractors, subcontractors, consultants, state and semi-state bodies, local authorities and suppliers of civil engineering products and equipment.

First Year at a Glance
- Construction Technology: the function and composition of the various structural elements of low-rise masonry and framed structures and the practices and work sequences involved in their assembly and construction
- Engineering Drawing and 3D CAD: the sequential development of hard-line drawing and introduces 3D CAD visualisation software
- Engineering Mathematics: essential numerical, algebraic and graphical skills for studying engineering
- Engineering Science: introduces the learner to the basic principles of physics, particularly energy consumption and conservation, and its associated aspects in engineering
- Engineering Mechanics: introduces the learner to the use of applied mathematical solutions to basic engineering problems
- Site Surveying: introduces basic principles of land surveying and basic skills in linear surveying and levelling
- Civil Engineering Materials: introduces the properties of materials used in civil engineering and how these may relate to specific applications
- 2D CAD Introduction: on completion of this module students will be able to produce, layout and print simple CAD drawings using the most recent AutoCAD software

www.mtu.ie/MT832
Civil Engineering
Innealtóireacht Shibhialta

Application: CAO
CAO Code: MT 732
NFQ Level: 7
Award Title: Bachelor of Engineering in Civil Engineering
Duration: 3 Years (6 Semesters)
Places: 32
Location: MTU Kerry South Campus

Overview
Civil engineering is all about the assessment, planning, design, construction, operation and maintenance of the different types of infrastructural works that society needs, from roads and rail systems to bridges, harbours, airports, energy and utility services, and water supply schemes. It is a broad discipline which also includes structural and environmental engineering. Environmental engineers apply engineering principles to improve the quality of our environment and work towards the creation of healthy water, air and land resources.

In developing this course, we have been very careful to maintain the correct balance between theory and practical skills, to emphasise team working and professionalism and to incorporate industry standard information technology. Graduates should be creative problem solvers who can help to shape the future.

A 12-week work placement is a central feature of the programme in year three. It’s while on placement that you really see the value of your academic learning in a real-life working environment. Your placement lays the foundations of your career path and significantly boosts your employability at the end of the course.

Further Studies
Subject to availability of places, suitably qualified level 7 graduates are eligible to apply for entry to year 4 (final year)
• Bachelor of Science (Honours) in Civil Engineering

Question Time
Do I need to have studied any specific subjects in my Leaving Certificate to do this course?
Other than English or Irish and Maths (see entry requirements above), there are no specific subject requirements. Modules are taught on the assumption that students have no prior knowledge of the subject.

Contact Information
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Career Opportunities
Civil engineering offers challenging and varied employment, with opportunities to travel. This course provides a broad range of marketable, practical and professional skills such as site surveying, engineering design and detailing (3D CAD), design office and site administration, laboratory testing, project management and health and safety. Civil engineering graduates are employed, both in Ireland and abroad, by contractors, subcontractors, consultants, state and semi-state bodies, local authorities and suppliers of civil engineering products and equipment.

First Year at a Glance
• Construction Technology: the function and composition of the various structural elements of low-rise masonry and framed structures and the practices and work sequences involved in their assembly and construction
• Engineering Drawing and 3D CAD: the sequential development of hard-line drawing and introduces 3D CAD visualisation software
• Engineering Mathematics: essential numerical, algebraic and graphical skills for studying engineering
• Engineering Science: introduces the learner to the basic principles of physics, particularly energy consumption and conservation, and its associated aspects in engineering
• Engineering Mechanics: introduces the learner to the use of applied mathematical solutions to basic engineering problems
• Site Surveying: introduces basic principles of land surveying and basic skills in linear surveying and levelling
• Civil Engineering Materials: introduces the properties of materials used in civil engineering and how these may relate to specific applications
• 2D CAD Introduction: on completion of this module students will be able to produce, layout and print simple CAD drawings using the most recent AutoCAD software

www.mtu.ie/MT732
Civil Engineering
Innealtóireacht Shibhialta

Application: CAO
CAO Code: MT 731
NFQ Level: 7
Award Title: Bachelor of Engineering in Civil Engineering
Duration: 3 Years (6 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

Overview
Civil engineering deals with one of the most visible signs of change and progress around us: the construction of new buildings, structures and infrastructure. New roads, rail-links, bridges and airports are always needed. New buildings are required for the public and private sectors and older buildings are redeveloped. Civil engineers are required to plan, design, construct and maintain these facilities.

Practical sessions are carried out to provide as much “hands on” experience as possible. There is continuous assessment of reports, drawings and projects in addition to mid and end of module examinations. The Department has active links with colleges in France, Germany, Finland, and the Czech Republic and arranges student study exchanges with these colleges.

Accreditation
This course is fully accredited by Engineers Ireland. Engineers Ireland represents all engineering disciplines in Ireland and is a member of Federation Europeene d’Associations Nationales d’Ingenieurs (FEANI) through which Irish engineers are recognised in Europe. Engineers Ireland is a signatory to the Sydney and Dublin Accords through which Irish engineers are recognised in USA, Canada, Australia, New Zealand, Hong Kong, South Africa, and UK.

Further Studies
Suitably qualified graduates are eligible for entry to
• Year 3 of the Bachelor of Engineering (Honours) in Structural Engineering

The above is the most common progression route for graduates wishing to pursue a career in Civil/Structural Engineering. However, a civil engineering qualification provides a broad range of skills and graduates successfully seek opportunities for further studies at honours bachelor degree level across a wide range of other cognate disciplines. For example, in recent years, some graduates of the programme have pursued further studies in MTU in
• Year 3 of Bachelor of Engineering (Honours) in Sustainable Energy Engineering (MT 837)
• Year 4 of Bachelor of Science (Honours) in Construction Management (MT 856)
• Year 4 of Bachelor of Science (Honours) in Building Information Modelling and Management

Question Time
Why study civil engineering?
Civil engineers identify and analyse problems, and develop and implement solutions. In addition to technical skills, civil engineers have competences in related fields of project management and health and safety. Civil engineers work as individuals and in teams. The problem solving, solution implementation and management skills of civil engineers are applicable to a broad range of work environments and are valued by a wide range of employers.

What level of drawing is required for this course?
Prerequisite drawing studies are not required. Drawing skills are addressed in the programme modules on the assumption that the students have no prior knowledge or skills in the area.

Contact Information
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Career Opportunities
Graduates are likely to work in conjunction with architects, quantity surveyors, builders, and also with personnel from other engineering disciplines. For further information in relation to the civil engineering profession please refer to the Engineers Ireland website at www.engineersireland.ie

Associate Engineer/Higher Technician Level in the following areas
• Consulting engineers
• Civil engineering contractors
• State/semi-state bodies and utility companies
• Local authorities
• Self-employed consultant

First Year at a Glance

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Score the necessary CAO points and meet minimum Leaving Certificate requirements
Construction (Common Entry)
Foi SIN tn (Ion trl Ch mnta)

Application: CAO
CAO Code: MT 758
NFQ Level: 7
Award Title: Depends on specialisation. Choose from
• Bachelor of Science in Construction Management
• Bachelor of Science in Quantity Surveying
Duration: 3 Years (6 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

Overview
The Construction Common Entry Level 7 degree programme is for students interested in both construction management and quantity surveying as a career, but who may be unsure of which discipline to follow. This common entry degree programme gives students the opportunity to see both disciplines first hand. Through the various modules on offer, and interaction with the lecturers, student can decide which discipline suits them best.

An added bonus is that on successful completion of year 2, students will be awarded a Higher Certificate in Science in Construction.

Year 3: students who successfully complete year 1 and year 2 may choose either the Bachelor of Science in Construction Management or the Bachelor of Science in Quantity Surveying.

Construction management deals with the organisation and management of a construction project. The construction manager monitors the progress and quality of the work on site, supervising and co-ordinating subcontractors and specialist suppliers. A number of different terms are used to describe the construction management role – these include project manager, contracts manager and building manager.

The construction manager has overall control of the progression of the project and is responsible for ensuring that the required personnel, materials and equipment are available in the correct sequence and at the appropriate time. They must also ensure that all health and safety regulations are met.

Quantity surveying aims to provide value for money through the efficient cost management of the construction process. The objective of quantity surveying is to control cost, limit risk and add value to a project.

The quantity surveyor chooses the most appropriate procurement method, prepares the tendering documents, advises on the selection of contractors, checks the progress of the work on site and calculates payments due to contractors. The quantity surveyor thus ensures that the design and construction of the project delivers value for the client.

The aim of the work placement is to introduce the student to structured employment in a relevant work sector and to develop the student’s understanding of the organisation, its procedures and technology.

Further Studies
Suitably qualified graduates are eligible to apply for entry to year 4 (final year)
• Bachelor of Science (Honours) in Construction Management or
• Bachelor of Science (Honours) in Quantity Surveying

Accreditation
This course qualifies for exemptions from the Chartered Institute of Building.

Question Time
What is the advantage of studying the common entry?
• The student has the flexibility of the common two years of the course before having to decide on which specialist option they want to graduate in.

What level of drawing is required for this course?
Drawing is a useful skill but not essential. It helps students understand the technology that they will ultimately be managing or measuring.

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BSc in Quantity Surveying
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Career Opportunities
The principal areas of employment are as surveyors or as construction managers with contracting organisations, government departments, semi-state bodies, and private practice companies.

• Site management
• Quantity surveying/estimating
• Project planning and management
• Working with developers, designers and contracting organisations

First Year at a Glance
• Construction Technology: site visit, analysis and set up; introduction to foundations, walls, floors, insulation, radon protection; building regulations; and roofs
• Building and Environmental Science: how you light, heat and ventilate a building, i.e., principles of heat loss; conventional domestic heating systems; low carbon emitting domestic heating systems; domestic water supply and waste water
• Construction Graphics: how to communicate what is in a building by drawing and computer aided design, i.e., drawing equipment, sheet layout, lettering, lines, scales, dimensioning and representation of materials; geometrical setting out of arches; freehand drawing, location floor plans; reading and interpretation of a drawing; and AutoCAD
• Construction Materials & Structures: testing materials for a building; identify basic structural forms; recognise equilibrium in structural forms; structural use and material properties of concrete, steel, glass, timber and plastics
• Maths for Technology: maths that you would require for the build industry

MINIMUM LEAVING CERTIFICATE REQUIREMENTS

SCORE THE NECESSARY CAO POINTS AND MEET MINIMUM LEAVING CERTIFICATE REQUIREMENTS

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www.mtu.ie/MT758
Construction Management (Honours)
Bainistíocht Foirgníochta (Onóracha)

Application: CAO
CAO Code: MT 856
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Construction Management
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
Construction management is the overall planning, coordination, and control of a development from inception to completion. Construction management is aimed at meeting a client’s requirements in order to produce a functionally and financially viable project in the engineering and architectural environment.

Construction management involves the planning, design, production, adaptation, maintenance, restoration, conservation, financial and engineering management, evaluation and recycling of the built environment.

The course is taught primarily through lectures, practicals, and tutorials. Significant emphasis is placed on project and experimental work with site visits and field trips making up an integral part of the coursework. The student is required to submit a project evaluation and development report, and a dissertation.

The work placement will familiarise the student with work practices and procedures and provides them with the opportunity to observe the practical application of theoretical knowledge gained on their programme. The placement is supported by a member of academic staff in MTU together with a workplace mentor. The aim of the industrial placement is to introduce the student to structured employment in a relevant work sector and to develop the student’s understanding of the organisation, its procedures and technology.

Accreditation
The construction management honours degree is recognised internationally because of its accreditation by the Chartered Institute of Building (CIOB) enabling graduates to find suitable employment, either in Ireland or abroad.

Further Studies
Suitably qualified graduates are eligible to apply for a postgraduate degree at MTU:
- Postgraduate Diploma in Construction Project Management
- MSc in Construction Project Management
- MSc (by Research)

Question Time
Why does a client require a construction manager?
A client requires a construction manager to plan, coordinate, supervise, and control complex and financially demanding developments. Most clients would not have the necessary experience or expertise to carry out these functions, and rely on their construction management expert to guide them through the process.

Is a construction manager site based?
Not necessarily, the construction manager may be site based or office based. The construction manager can perform a number of different roles within the Built Environment. These include working for contracting organisations, multidisciplinary project management companies, local and national governmental authorities, and consultancies.

What are the prospects for employment in construction management?
Due to the variety of potential employment areas for construction management graduates, the majority of recent graduates have successfully gained employment either at home or abroad.

Is the BSc (Honours) in Construction Management recognised abroad?
Yes, the degree is recognised internationally because of its accreditation by the Chartered Institute of Building (CIOB) enabling graduates to find suitable employment, either in Ireland or abroad.

Contact Information
Joseph Kehoe
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Career Opportunities
The construction manager is adaptable to many roles within the broader built environment; overall management and development of construction and infrastructure projects, building control for local and national authorities, education, design, and consultancy.

- Project and contracts management
- Project planning & control
- Facilities management
- Building surveying
- Project evaluation & development
- Design management & administration
- Education – teaching & lecturing

First Year at a Glance
- Construction Industry and Procedures: who does what in the development process i.e. types of firm (sole trader, partnerships, company); participants in the industry (clients, consultants, contractors)
- Construction Management Measurement & Procedures: how to measure what makes up a building i.e. interpret client requirements, and the responses of consultants and contractors; and outline the principles of measurement and complete measurement of basic construction works
- Construction Materials & Structures: testing materials for a building
- Organisation and Management: organising people to do things in the right place at the right time i.e. identify principles and practices of management in construction

www.mtu.ie/MT856
Electrical Engineering (Honours)
Innealtóireacht Leictreach (Onóracha)

Application: CAO
CAO Code: MT 845
NFQ Level: 8
Award Title: Bachelor of Engineering (Honours) in Electrical Engineering
Duration: 4 Years (8 Semesters)
Places: 40 (between MT 845 and MT 745)
Location: MTU Bishopstown Campus, Cork

Overview
The general fields of study are renewable generation, transmission and distribution, plant automation, motor control, power systems planning, and industrial management and services. The high academic standard of the course is complemented by a strong emphasis on applications and project work. State-of-the-art lab equipment and software prepares graduates for the work environment. Class work is supplemented by field trips to major employers within the greater locality.

This course is designed to prepare graduates for work in electrical power and automation systems within industry. The course concentrates on electrical engineering systems including renewable energy systems, control systems engineering, mathematics and computing. There are also subjects on advanced plant automation, electrical machines and drives, and industrial engineering and management. A final project is undertaken and its principle objective is to develop the student’s ability to apply pertinent knowledge and skills to the solution of specific technical problems in the industrial environment using novel and innovative ideas, and to document and present this information.

Students undertake a relevant work placement of no less than 7 weeks between April and September of third year. The placement will provide students with structured opportunities to participate in the practical application of theoretical knowledge gained during the programme as well as develop key graduate competencies.

Further Studies
Suitably qualified graduates are eligible to apply for a postgraduate degree at MTU.
• MEng (by Research)
• PhD

Honours degree graduates may undertake relevant Master or PhD Degrees at MTU in the areas of Renewable Energy Systems, Electrical Control Systems, Embedded Generation (CHP and renewables), and Electrical System Planning.

Accreditation
The BEng (Honours) in Electrical Engineering is currently not accredited but an application for accreditation by Engineers Ireland at the Bachelor (Honours) Level 8 educational standard will be made in 2022. Further learning is required to meet the educational standard for Chartered Engineer.

Question Time
What level of Mathematics is required?
Grade 06/H7 in the Leaving Certificate exam is the minimum requirement, however, a higher grade is recommended. Mathematics is used in all engineering disciplines and provides the tools for complex problems to be understood and solved. Prospective students should be comfortable with mathematics.

Can I become an electrician?
No. An electrician is a well-established trade which has its own development programme and its own target job market. Third level programmes are designed to equip graduates to work at design/development level and then to liaise with skilled trades for implementation.

What is the difference between electronic engineering and electrical engineering?
Electronic engineering is small scale, low voltage, component level, microchips and programming. Electrical engineering is high power, mains electricity, generation, power lines, transformers, motor/generators and automation.

What elements of renewable energy are covered in the course?
Modules dealing with all current renewable areas are dealt with on a mandatory basis because of their relevance. There is also an opportunity to explore these areas further through elective modules. The challenge of delivering large scale renewable electrical power via the distribution grid is a major topic of study.

Contact Information
Michael Murray
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Career Opportunities
Graduates are highly employable and can find work in many areas, including energy generation and distribution, building and industrial electrical services, consultancy and contract management as well as automation in modern, sustainable processes.

The significant increase in the emission of greenhouse gases from energy generation and consumption, resulting in global warming is now the biggest challenge facing humanity. Electrical engineers will contribute to addressing this challenge in the coming decades with a higher percentage of energy consumed being electrical energy generated from renewable resources. Changes including widespread use of electrical transport and heating using sustainable heat pumps will require major infrastructure investment to generate, distribute and sustainably consume this renewable electrical energy. The demand and opportunities for electrical engineers is now unprecedented.

First Year at a Glance
Year 1 is a good mix of practice and theory, so on average that’s about 12 hours in the class and 12 hours in the laboratory.
• Theory: how electricity is generated, transmitted and distributed and there are also classes in electronic circuits, writing programmes and CAD
• Mathematics: this is required as everything in engineering has a formula which tells you how it works
• Laboratory work: you will build, test and calculate measurements on low voltage circuits using custom take home lab kits. You will also learn how to present your work, both in writing and verbally

www.mtu.ie/MT845
Electrical Engineering
Innealtóireacht Leictreach

Application: CAO
CAO Code: MT 745
NQF Level: 7
Award Title: Bachelor of Engineering in Electrical Engineering
Duration: 3 Years (6 Semesters)
Places: 40 (between MT 745 and MT 845)
Location: MTU Bishopstown Campus, Cork

Overview
Providing electrical power in a modern economy is about generation, distribution and usage in a safe, economic and sustainable way. Fossil fuel energy now combines with solar, wind and tidal energy to create “embedded” generation which needs a “smart grid” to automatically switch users and suppliers in and out while maintaining the quality of the supply. MTU’s electrical engineering course is designed to equip technologists for this environment.

The general fields of study are renewable generation, transmission and distribution, plant automation, motor control, power systems planning, and industrial management and services. The syllabus is designed to prepare graduates for work in electrical power and automation systems. The high academic standard of the course is complemented by a strong emphasis on applications and project work. State-of-the-art lab equipment and software prepares graduates for the work environment. Class work is supplemented by field trips to major employers within the greater locality.

Students undertake a relevant work placement of no less than 7 weeks between April and September of third year. The placement is supported by a member of lecturing staff in MTU together with a workplace mentor. The aim of the work placement module is to introduce the student to the types of work practices, procedures and environments that they are likely to encounter as professional engineers. The module will provide students with structured opportunities to participate in the practical application of theoretical knowledge gained during the programme as well as develop key graduate competencies.

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year)
• Bachelor of Engineering (Honours) in Electrical Engineering

Accreditation
The Level 7 in Electrical Engineering is accredited by Engineers Ireland for Associate Membership.

Question Time
What is the difference between electronic engineering and electrical engineering?
Electronic engineering is small scale, low voltage, component level, microchips and programming.
Electrical engineering is high power, mains electricity, generation, power lines, transformers, motor/generators and automation.

What level of Mathematics is required?
Grade 06/H7 in the Leaving Certificate exam is the minimum requirement, however, a higher grade is recommended. Mathematics is used in all engineering disciplines and provides the tools for complex problems to be understood and solved. You would need to be comfortable with mathematics.

Can I become an electrician?
No. An electrician is a well-established trade implemented by skilled trades.

First Year at a Glance
Year 1 is a good mix of practice and theory, so on average that’s about 12 hours in the class and 12 hours in the laboratory.

• Theory: how electricity is generated, transmitted and distributed and there are also classes in electronic circuits, writing programmes and CAD
• Mathematics: this is required as everything in engineering has a formula which tells you how it works
• Laboratory work: you will build, test and calculate measurements on low voltage circuits using custom take home lab kits. You will also learn how to present your work, both in writing and verbally.

Career Opportunities
Graduates are highly employable and can find work in many areas, including energy generation and distribution, building and industrial electrical services, consultancy and contract management as well as automation in modern, sustainable processes.

The significant increase in the emission of greenhouse gases from energy generation and consumption, resulting in global warming is now the biggest challenge facing humanity. Electrical engineers will contribute to addressing this challenge in the coming decades with a higher percentage of energy consumed being electrical energy generated from renewable resources. Changes including widespread use of electrical transport and heating using sustainable heat pumps will require major infrastructure investment to generate, distribute and sustainably consume this renewable electrical energy. The demand and opportunities for electrical engineers is now unprecedented.

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www.mtu.ie/MT745
Electronic Engineering (Honours)
Innealtóireacht Leictreonach (Onóracha)

Application: CAO
CAO Code: MT 846
NFQ Level: 8
Award Title: Bachelor of Engineering (Honours) in Electronic Engineering
Duration: 4 Years (8 Semesters)
Places: 40 (between MT 846 and MT 746)
Location: MTU Bishopstown Campus, Cork

Overview
Small, lightweight, portable devices like smartphones and tablets combine wireless technology with processing power to provide internet, communications and leisure functionality while on the move. They are now driving how we live, work and play. Combining low power consumption with microchip design, telecommunication and control circuitry (hardware) and the operating system software, they are the ultimate electronic system. MTU’s MT 846 programme is designed to equip engineers to work at this level.

Electronic systems are used for the collection, processing and transmission of information. From the most sophisticated machines in industry, to cars, to household appliances and to personal items, all have the same thing in common: they are “intelligent”. On a printed circuit board (PCB), surrounded by analogue and digital circuitry, there is a microprocessor, or maybe several, which has a clock (heartbeat). On every cycle the microprocessor executes an instruction from whatever programming it is running (software) – this ability is what makes the system intelligent. Intelligence, control and communications, theory and practice form the core material of this course.

Students undertake a relevant work placement of no less than 7 weeks between April and September of third year. The placement is supported by a member of lecturing staff in MTU together with a workplace mentor. The aim of the work placement module is to introduce the student to the types of work practices, procedures and environments that they are likely to encounter as professional engineers. The module will provide students with structured opportunities to participate in the practical application of theoretical knowledge gained during the programme as well as develop key graduate competencies.

Further Studies
Suitably qualified graduates are eligible to apply for a postgraduate degree at MTU:
• MEng (by Research)
• PhD
Many relevant PhD opportunities exist for suitably qualified candidates in the MTU NIMBUS Research Centre, Bishopstown Campus, Cork.

Accreditation
The BEng (Honours) in Electronic Engineering is currently not accredited but an application for accreditation by Engineers Ireland at the Bachelor (Honours) Level 8 educational standard will be made in 2022. Further learning is required to meet the educational standard for Chartered Engineer.

Question Time
What level of Mathematics is required?
Grade 06/H7 in the Leaving Certificate exam is the minimum requirement, however, a higher grade is recommended. Mathematics is used in all engineering disciplines and provides the tools for complex problems to be understood and solved. You would need to be comfortable with mathematics.

Can you give me examples of the type of work I will be able to do?
Test, develop, design electronic circuits or microchips (hardware), write programmes (software) for products, computer packages, games, mobile phone networks, provide technical support for products.

Will I be working in a factory?
The majority of electronic engineers work in nice offices! A huge amount of work is outsourced to other parts of the world for manufacture.

Career Opportunities
Graduates are highly employable and can find work in many areas, including electronics, product development, IT, gaming, telecoms, manufacturing and smart power industries.

Modern society is increasingly dependent on smart, connected electronic systems and devices. These systems support mobile phone connectivity, digital streaming services, ecommerce, modern medicine and tools such as smart electricity meters that contribute to future sustainability. Modern electronics is now omnipresent in every aspect of everyday life and underpins many innovative developments for future sustainability. Career opportunities and demand for Electronic Engineers is now unprecedented with most employers reported a significant skills shortage.

First Year at a Glance
Year 1 is a good mix of practice and theory, so on average that’s about 12 hours in the class and 12 hours in the laboratory.

• Theory: how basic electronic circuits work, e.g. resistors, transistors, digital gates
• Software: how to write software
• Mathematics: this is required as everything in engineering has a formula which tells you how it works
• Laboratory work: you will build, test and calculate measurements on low voltage circuits using custom take home lab kits.
You will also learn how to present your work, both in writing and verbally.

Contact Information
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www.mtu.ie/MT846
Electronic Engineering
Innealtóireacht Leictreonach

Application: CAO
CAO Code: MT 746
NFQ Level: 7
Award Title: Bachelor of Engineering in Electronic Engineering
Duration: 3 Years (6 Semesters)
Places: 40 (between MT 746 and MT 846)
Location: MTU Bishopstown Campus, Cork

Overview
Small, lightweight, portable devices like smartphones and tablets combine wireless technology with processing power to provide internet, communications and leisure functionality while on the move. They are now driving how we live, work and play. Combining low power consumption with microchip design, telecommunication and control circuitry (hardware) and the operating system software, they are the ultimate electronic system. MTU’s MT 746 programme is designed to equip engineers to work at this level.

Electronic engineering is used for the collection, processing and transmission of information. From the most sophisticated machines in industry, to cars, to household appliances and to personal items, all have the same thing in common: they are “intelligent”. On a printed circuit board (PCB), surrounded by analogue and digital circuitry, there is a microprocessor, or maybe several, which has a clock (heartbeat). On every cycle the microprocessor executes an instruction from whatever programming it is running (software) – this ability is what makes the system intelligent. Intelligence, control and communications, theory and practice form the core material of this course.

Students undertake a relevant work placement of no less than 7 weeks between April and September of third year. The placement is supported by a member of lecturing staff in MTU together with a workplace mentor. The aim of the work placement module is to introduce the student to the types of work practices, procedures and environments that they are likely to encounter as professional engineers. The module will provide students with structured opportunities to participate in the practical application of theoretical knowledge gained during the programme as well as develop key graduate competencies.

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year) • Bachelor of Engineering (Honours) in Electronic Engineering

Accreditation
Yes. The Level 7 in Electronic engineering is accredited by Engineers Ireland for Associate Membership.

Question Time
What is the difference between electronic engineering and electrical engineering?
Electronic engineering is small scale, low voltage, component level, microchips and programming. Electrical engineering is high power, mains electricity, generation, power lines, transformers, motor/generators and automation.

What level of Mathematics is required?
Grade 06/H7 in the Leaving Certificate exam is the minimum requirement, however, a higher grade is recommended. Mathematics is used in all engineering disciplines and provides the tools for complex problems to be understood and solved. You would need to be comfortable with mathematics.

Contact Information
Dave Hamilton
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Career Opportunities
Graduates are highly employable and can find work in many areas, including electronics, product development, IT, gaming, telecoms, manufacturing and smart power industries.

Modern society is increasingly dependent on smart, connected electronic systems and devices. These systems support mobile phone connectivity, digital streaming services, ecommerce, modern medicine and tools such as smart electricity meters that contribute to future sustainability. Modern electronics is now omnipresent in every aspect of everyday life and underpins many innovative developments for future sustainability. Career opportunities and demand for Electronic Engineers is now unprecedented with most employers reported a significant skills shortage.

First Year at a Glance
Year 1 is a good mix of practice and theory, so on average that’s about 12 hours in the class and 12 hours in the laboratory.

• Theory: how basic electronic circuits work, e.g. resistors, transistors, digital gates
• Software: how to write software
• Mathematics: this is required as everything in engineering has a formula which tells you how it works
• Laboratory work: you will build, test and calculate measurements on low voltage circuits using custom take home lab kits.
You will also learn how to present your work, both in writing and verbally.

www.mtu.ie/MT746
Engineering (Common Entry)
Innealtóireacht (Iontráil Chomónta)

Application: CAO
CAO Code: MT 830
NFQ Level: 8
Award Title: Dependent on chosen specialisation
- BEng (Hons) in Biomedical Engineering
- BEng (Hons) in Chemical and Biopharmaceutical Engineering
- BEng (Hons) in Mechanical Engineering
- BEng (Hons) in Structural Engineering
- BEng (Hons) in Sustainable Energy Engineering

Overview
The common engineering honours entry scheme is a one year programme for students interested in engineering as a career, but who may be unsure of which discipline to follow.

The scheme gives students the opportunity to see all five engineering disciplines first hand. Through the various modules on offer, interaction with the lecturers and site visits will assist the student to decide which discipline suits them best.

On successful completion of year 1, students can enter the second year programme of their choice from any of the following honours engineering degrees
- MT 831 BEng (Hons) in Structural Engineering
- MT 836 BEng (Hons) in Mechanical Engineering
- MT 837 BEng (Hons) in Sustainable Energy Engineering
- MT 838 BEng (Hons) in Chemical and Biopharmaceutical Engineering
- MT 839 BEng (Hons) in Biomedical Engineering

Please see relevant individual course descriptions in this prospectus.

Accreditation
The BEng (Hons) programmes in Chemical and Biopharmaceutical Engineering, Mechanical Engineering, Structural Engineering, and Biomedical Engineering are each fully accredited by Engineers Ireland at the Bachelor (Honours) Level 8 educational standard. For further details refer to www.engineersireland.ie/Services/Accredited-Courses/Chartered-Engineer.aspx

The BEng (Hons) in Sustainable Energy Engineering is accredited by the Energy Institute. For further details refer to www.energyinst.org/search?query=accredited+programmes.

Question Time
Am I guaranteed my choice of study at the end of year 1?
Yes. Successful completion of the common engineering entry year ensures guaranteed entry to year 2 of BEng (Honours) programme of choice from the list given.

If I did not study Higher Level Mathematics in the Leaving Certificate will I struggle on the courses given that all course streams would normally require Higher Level Mathematics?
The mathematics modules in Year 1 are specifically tailored to address the topics which underpin subsequent BEng (Honours) programme studies; this gives a very specific focus to student learning. While the common entry students undertake the same mathematics modules as the Year 1 BEng (Honours) students, an additional module of mathematics is undertaken in the inter-semester period in January each year.

This provides the common entry students with an additional learning opportunity in advance of the semester 2 mathematics module. Experience has shown that students who do not have the usual BEng (Honours) minimum H4 requirement do succeed in the common entry programme if they have also taken Leaving Certificate Physics and/or Chemistry and are committed to their year 1 studies.

Students who do not have the O1/H6 Maths requirement, or equivalent, and who do not have Leaving Certificate Physics or Leaving Certificate Chemistry may find the programme particularly challenging and additional work effort and application is required of these students if they are to succeed.

MTU’s Academic Learning Centre provides free tuition in a number of disciplines, including mathematics.

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Career Opportunities
Graduate engineers from the honours engineering degree programmes can choose from a range of excellent career opportunities working in the private or public sector with opportunities available at both national and international Level. Many graduates ultimately progress to senior management positions in their organisations. These honours engineering degree programmes also provide a basis for suitably qualified graduates to pursue more advanced studies at masters or PhD level.

- Chemical & process engineering
- Mechanical engineering
- Civil, structural & environmental engineering
- Biomedical engineering
- Energy engineering

First Year at a Glance
- Engineering Mechanics: understanding the performance of engineering materials when subject to external loads and forces
- CAD with Design: computer-aided design similar to the Leaving Certificate subject Design and Communication Graphics
- Engineering Physics: introduction to geometric optics, atomic and nuclear physics, electromagnetism, and thermal physics
- Engineering Chemistry: fundamentals of atomic theory and chemical bonding; inorganic and physical chemistry
- Material Science and Engineering: understanding the nature and properties of engineering materials
- Engineering Mathematics: mathematical topics of direct relevance to professional engineering studies
- Creativity, Innovation and Teamwork
- Discipline Specific Elective Modules

www.mtu.ie/MT830
Overview
Environmental engineering is that branch of engineering concerned with the application of scientific and engineering principles for the protection and improvement of the environmental quality of the world in which we live. Environmental engineers work on issues of sustainability, provide safe and secure drinking water, collect, treat and properly dispose of wastewater and other wastes, design flood protection measures, maintain or improve air and noise quality, design sustainable urban drainage systems, clean up contaminated land and groundwater, and help communities and industry minimise pollution, among many other activities.

It is most commonly a distinct and specialist engineering discipline within the civil engineering profession and it is in this context that this course has been developed.

Practical sessions are carried out to provide as much “hands on” experience as possible. There is continuous assessment of reports, drawings and projects in addition to mid and end of module examinations. The Department has active links with colleges in France, Germany, Finland, and the Czech Republic, and student study exchanges with these colleges can be arranged.

Many graduates of the programme will use the qualification as a stepping stone to attain an honours degree in the discipline.

Further Studies
Suitably qualified graduates may apply to
- Year 3 of Bachelor of Engineering (Honours) in Sustainable Energy Engineering (MT 837)
- Year 4 of Bachelor of Science (Honours) in Construction Management (MT 856)
- Year 4 of Bachelor of Science (Honours) in Building Information Modelling and Management

Question Time
What topics are studied in this programme?
The first two years involve foundation studies in theory and fundamental principles. Fundamental civil engineering practice studies are undertaken in the areas of environmental engineering, construction, health and safety, materials technology, surveying, and structural engineering.

In year 3 the mandatory modules have a particular focus on environmental engineering with skills in water, wastewater, integrated waste, transport planning and infrastructure design being developed; engineering practice skills are further developed in the areas of management and geotechnical engineering. The theory and fundamental principles studies necessary for the further academic progression of the graduate are also provided. The project module (10 credits) affords the student an opportunity to carry out an engineering investigation into a specific topic where they can use the knowledge gained during their studies.

Why study Environmental Engineering?
Increased environmental awareness and significant developments in environmental legislation and quality assurance requirements have created increased career opportunities locally, nationally and internationally for environmental engineers. Environmental engineering infrastructure such as systems for water supply and distribution, wastewater collection and treatment and flooding control, which were developed some time ago, are in urgent need of renewal and the provision of modern management systems for the broad remit of today’s environmental engineering infrastructure is a priority in a world increasingly aware of sustainability and cost issues; qualified environmental engineers are needed to deliver this renewal.

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**Overview**

Interior architecture is specific to a building’s interior. It stands at the intersection of architecture, design of the built environment, sustainability, and conservation. Unlike interior design, it is architecture within the confines of an existing building. As such, the course requires a level of technical competence to compare with that of the architect, as the responsibilities to the client and community are similar.

This course examines contemporary practice in interior architecture and teaches you about our architectural heritage, how buildings work, and how to create high quality spatial experiences. It involves the design of interiors of buildings, their layout, fitting, furnishing and decoration, and the preparation of all technical drawings and written documentation necessary for the carrying out of the work.

The work of interior architectural design includes domestic, commercial, leisure, retail, educational, healthcare and cultural interior projects. Interior architectural design encompasses many types of interiors and utilises accompanying skills.

At MTU, interior architecture covers the spectrum of industry specialisms. It involves the initial design and plan for use to accommodate a changed purpose, or a significantly revised design for adaptive reuse of the building shell. It considers structural adaption, sustainable redevelopment strategies, use of light, air movement, ventilation, horizontal/vertical circulation, and servicing. The practice of interior architecture responds to multiple user needs and a wider social responsibility.

The core of this programme is the design studio where skills in design and representation are integrated with mastery of content from other modules. The emphasis is the development of strong design and analytical skills in a studio-based environment.

**Question Time**

- **Is the course accredited?**
  There is currently no accreditation process available in interior architecture in Ireland.

- **How much of my time is devoted to studio and project work?**
  Approximately 50% of time is devoted to studio and project work.

- **What year does work placement occur?**
  Formal work placement (minimum of five weeks) is an integral element of the course and takes place in year 3. The placement programme will familiarise the student with work practices and procedures and provide them with the opportunity to observe the practical application of theoretical knowledge gained on their programme.

  The placement is supported by a member of academic staff in MTU together with a workplace mentor. The aim of the industry placement is to introduce the student to structured employment in a relevant work sector and to develop the student’s understanding.

- **What is the difference between interior architecture and architectural technology?**
  Interior architecture includes aesthetic design of all interior aspects of a building. Architectural technology can be described as technical design.

- **Am I qualified as an interior designer?**
  This programme is designed to graduate candidates who will practice in interior architecture which includes interior design.

**Contact Information**

Anne Rogers  
T: +353 (0)21 433 5977  
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**Career Opportunities**

This course qualifies graduates to work in architectural practice, interior architecture, and interior design firms, and allied disciplines in the capacity of an architectural designer with a developed area of focus and expertise or in entry management positions.

The graduate will be proficient in interior planning, spatial design and the materiality of complex interior schemes that involve multiple floors and mixed uses. The graduate is also oriented to commercial architectural practice with a strong understanding of sustainable design. The graduate will be able to develop designs and their attendant working drawings, and will deal with contractors, suppliers, and local authorities. The graduate may also select self-employment after a suitable period of practical experience.

- Private practice  
- Commercial  
- Government organisation  
- Local authority

**First Year at a Glance**

The core of the learning experience takes place in the studio through interior architecture design projects and the application and integration of knowledge and skills explored in lecture modules.

The focus of the year 1 studio is simple spatial design and design of domestic scale interior space including the exploration of the processes used to create interior architecture.

Modules include History (western architecture and design and key buildings), Technology & Materials while skills developed include communication, graphic techniques, sketching, drawing, model making, problem solving, and teamwork.
Interior Architecture
Ailtireacht Intí

Application: CAO
CAO Code: MT 760
NFQ Level: 7
Award Title: Bachelor of Science in Interior Architecture
Duration: 3 Years (6 Semesters)
Places: 36 – 40 (between MT 760 and MT 860)
Location: MTU Bishopstown Campus, Cork

Overview
Interior architecture involves the design of interiors of buildings, their layout and space planning, fitting, technical and structural resolution, furnishing and decoration, and the preparation of all technical drawings and written documentation necessary for the carrying out of the work. The design work of interior architecture includes domestic, commercial, leisure, retail, educational, healthcare and cultural interior projects. Interior architectural design encompasses many types of interiors and utilises accompanying skills.

This course qualifies graduates to work in architectural and interior design firms, in junior management positions, and prepares the individual to choose self-employment after a suitable period of practical experience.

This mainly studio-based course is taught through formal lectures and tutorials. It has a significant amount of time allocated to studio and project work. There is appropriate technical input, supplementing the design drawing and presentation content.

This course examines contemporary practice in interior architecture and teaches you about our architectural heritage, how buildings work, and how to create high quality spatial experiences.

At MTU, interior architecture covers the spectrum of industry specialisms. It involves the initial design and plan for use to accommodate a changed purpose, or a significantly revised design for adaptive reuse of the building shell. It considers structural adaption, sustainable redevelopment strategies, use of light, air movement, ventilation, horizontal/vertical circulation, and servicing. The practice of interior architecture responds to multiple user needs and a wider social responsibility.

Further Studies
Subject to availability of places, suitably qualified graduates are eligible to apply for entry to year 4 (final year)
• Bachelor of Science (Honours) in Interior Architecture

Question Time
Is the course accredited?
There is currently no accreditation process available in Interior Architecture in Ireland.

How much of my time is devoted to studio and project work?
Approximately 50% of time is devoted to studio and project work.

What year does work placement occur?
Formal work placement (minimum of five weeks) is an integral element of the course and takes place in year 3. The placement programme will familiarise the student with work practices and procedures and provide them with the opportunity to observe the practical application of theoretical knowledge gained on the programme.

The placement is supported by a member of academic staff in MTU together with a workplace mentor. The aim of the industry placement is to introduce the student to structured employment in a relevant work sector and to develop the student’s understanding.

What is the difference between interior architecture and architectural technology?
Interior architecture includes aesthetic design of all interior aspects of a building. Architectural technology can be described as technical design.

Am I qualified as an interior designer?
This programme is designed to graduate candidates who will practice in interior architecture which includes interior design.

Contact Information
Anne Rogers
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Career Opportunities
This course qualifies graduates to work in architectural practice, interior architecture, and interior design firms, and allied disciplines in Architecture with a broad range of professional skills.

The graduate will be proficient in planning, spatial design and the materiality of interior schemes that involve multiple floors and mixed uses. The graduate is also oriented to commercial architectural practice with a strong understanding of sustainable design. The graduate will be able to develop designs and their attendant working drawings, and will deal with contractors, suppliers, and local authorities. The graduate may also select self employment after a suitable period of practical experience.

• Private practice
• Commercial
• Government organisation
• Local authority

First Year at a Glance
• Interior Architecture Studio: introduction to simple spatial design; processes that are commonly used to organise and support study; research, analysis and studio design projects
• Graphics: introduces you to the core of communication skills appropriate for a career in interior architecture; construction industry drawing conventions and techniques in order to clearly communicate design proposals
• Technology & Materials: introduction to building technology; construction systems, components, and relevant building regulations principles
• Architectural History & Design Theory: explores the foundations of western architecture examining the spatial, formal and structural components of key buildings and interior design
Overview
Manufacturing engineering is a broad discipline, which involves the research, development, design, manufacture, operation and maintenance of equipment and machinery. A person working in this position designs the actual process that manufactures the product. Manufacturing engineers plan and design all kinds of products, from microelectronics, smartphones, formula one engine design, advanced factory automation equipment, medical devices and the hundreds of complex machines that we take for granted in everyday life.

Practical engineering subjects form the core of first year, while specialist modules in instrumentation, embedded systems, advanced manufacturing technology, control and robotics provide a focus in second and third year. There is also a twelve-week work placement during third year which lays the foundations of your career path and significantly improves your employability at the end of the programme. In addition, each student completes a project to design, test and/or manufacture components or a production system.

The final year of the programme will further enhance the student’s in-depth theoretical knowledge of the major facts, pertinent theories, concepts and methods employed in the field of manufacturing engineering. There is also a team research project which enhances the student’s research and analytical skills and their ability to work in groups which is of significant benefit to the manufacturing industry.

High-tech advanced manufacturing is the future for our economy. Our degrees are designed to prepare you for a rewarding career in this thriving, dynamic sector. The engineering facilities at MTU are state-of-the-art, and include computer and electronics labs, science labs, robotics labs, mechanical engineering labs, machine and welding workshops, a renewable energy laboratory, a power-units garage, a machinery hall and extensive library facilities. The programmes have been designed with substantial input from industry and deliver broad knowledge in manufacturing engineering and prepare graduates for work in a wide variety of fields both in Ireland and internationally.

Further Studies
Suitably qualified Level 8 honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Contact Information
Dr Daniel Riordan
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Career Opportunities
Graduates work in a range of industries, including manufacturing, electronics, automotive, automation, maintenance and development. Engineering roles include
• Factory management
• Applications and hardware design
• IC design
• Multimedia applications
• Network administration
• Power engineering
• Process control
• Software development
• Telecommunications
• Design, service, testing and verification

First Year at a Glance
• Engineering Drawing and CAD: introduces the necessary draughting skills which are required by technicians and engineers in an engineering or design environment
• Workshop Processes: engineering materials and processes used in mechanical engineering
• Engineering Mathematics: essential numerical, algebraic and graphical skills for studying engineering
• Engineering Science: principles of physics, particularly energy consumption and conservation, and its associated aspects in engineering
• Engineering Mechanics: applied mathematical solutions to basic engineering problems
• Electricity: develops a theoretical and practical understanding of electricity concepts
• Instrument Technology: provides competence in the use of instruments to measure flow-rate, temperature, speed, oil hydraulics, and level
• Computer Programming: the knowledge and skills necessary to program a computer in C#
• Electronics: basic principles underlying the operation of electronic components
• Material Science: introduction to a range of materials, their properties and applications
• Production Technology: current methods of soldering components to their substrates

www.mtu.ie/MT835
Entry 2022
Career Opportunities

• Engineering Drawing and CAD: introduces the necessary draughting skills which are required by technicians and engineers in an engineering or design environment
• Workshop Processes: engineering materials and processes used in mechanical engineering
• Engineering Mathematics: essential numerical, algebraic and graphical skills for studying engineering
• Engineering Science: principles of physics, particularly energy consumption and conservation, and its associated aspects in engineering
• Engineering Mechanics: applied mathematical solutions to basic engineering problems
• Electricity: develops a theoretical and practical understanding of electricity concepts
• Instrument Technology: provides competence in the use of instruments to measure flow-rate, temperature, speed, oil hydraulics, and level
• Computer Programming: the knowledge and skills necessary to program a computer in C#
• Electronics: basic principles underlying the operation of electronic components
• Material Science: introduction to a range of materials, their properties and applications
• Production Technology: current methods of soldering components to their substrates

Graduates work in a range of industries, including manufacturing, electronics, automotive, automation, maintenance and development. Engineering roles include
• Factory management
• Applications and hardware design
• IC design
• Multimedia applications
• Network administration
• Power engineering
• Process control
• Software development
• Telecommunications
• Design, service, testing and verification

Further Studies
Suitably qualified graduates are eligible to apply for entry to year 4 (final year)
• Bachelor of Science (Honours) in Manufacturing Engineering.

Contact Information
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Overview
Manufacturing engineering is a broad discipline, which involves the research, development, design, manufacture, operation and maintenance of equipment and machinery. A person working in this position designs the actual process that manufactures the product. Manufacturing engineers plan and design all kinds of products, from microelectronics, smartphones, formula one engine design, advanced factory automation equipment, medical devices and the hundreds of complex machines that we take for granted in everyday life.

Practical engineering subjects form the core of first year, while specialist modules in instrumentation, embedded systems, advanced manufacturing technology, control and robotics provide a focus in second and third year. There is also a twelve-week work placement during third year which lays the foundations of your career path and significantly improves your employability at the end of the programme. In addition, each student completes a project to design, test and/or manufacture components or a production system.

High-tech advanced manufacturing is the future for our economy. Our degrees are designed to prepare you for a rewarding career in this thriving, dynamic sector. The engineering facilities at MTU are state-of-the-art, and include computer and electronics labs, science labs, robotics labs, mechanical engineering labs, machine and welding workshops, a renewable energy laboratory, a power-units garage, a machinery hall and extensive library facilities. The programmes have been designed with substantial input from industry and deliver broad knowledge in manufacturing engineering and prepare graduates for work in a wide variety of fields both in Ireland and internationally.

www.mtu.ie/MT735
Overview

The REEdI (Rethinking Engineering Education in Ireland) BEng (Honours) in Mechanical and Manufacturing Engineering is a blended degree that brings in the best of manufacturing and mechanical engineering, culminating in flexible and adaptable engineers to meet the needs of the manufacturing sector. The REEdI student engineer will learn about the design and development of processes whilst also gaining an equally strong knowledge of the design, development and operation of products and equipment.

The REEdI blended degree is built around three core pillars:

• Pillar 1 is a project centric pillar (on-campus and in the workplace) which will form a basis of evaluation as well as a conduit for student engineers to learn personal and interpersonal skills

• Pillar 2 is a performance planning and review pillar (which gives student engineers the opportunity to enhance their project management and transversal skills, with the goal of identifying, reflecting and improving on their learning objectives throughout the programme)

• Pillar 3 is the engineering knowledge and skills which student engineers acquire in a self-directed, timely and relevant manner, accessed through an online eLearning ‘topic tree’ (in addition to targeted face-to-face learning opportunities)

Students will learn “just-in-time” not “just-in-case”. The course will be delivered using cutting edge technologies such as augmented and virtual reality. In addition, students get to learn from top lecturers in cutting edge technologies such as augmented and virtual reality. In addition, students get to learn from top lecturers in cutting edge technologies such as augmented and virtual reality.

Formal work placement (2 years) is an integral element of the course and takes place in years three and four. REEdI will secure work placement for students, working with industry partners to ensure specific projects are ready for students to prepare for prior to going on placement which they will then work on whilst on placement.

Further Studies

Suitably qualified Level 8 honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Question Time

What can I include in my digital portfolio?
At REEdI we are looking for you to provide us with evidence of your suitability to undertake a REEdI Engineering Degree in Mechanical and Manufacturing Engineering.

We need to see that you are an innovative, creative, problem solver that is self-directed and self-motivated. There is no standard digital portfolio but the following guidelines apply. We will accept the following for the portfolio- projects undertaken as part of:

• Leaving Certificate Engineering/Design and Communication Graphics/Technology/ Construction studies/Computer Science projects

• SciFest projects

• Young Scientist of the year projects

• Junior Entrepreneur of the year projects

• Other (e.g. mature students- projects within their industry/ work experience, F1 in schools projects etc)

Please contact us at reedi@mtu.ie to discuss other portfolio/options available.

Contact Information
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First Year at a Glance

• Engineering Technology: introduces the fundamentals of engineering tools and equipment

• Design Engineering: design methodology and basic draughting skills

• Mechanical engineering: basic principles and the analysis of static and dynamic systems in engineering

• Mathematical Methods for Engineers: basic principles of mathematics and their application in solving engineering problems

• Electrical Engineering: basic principles of electricity and electronics and their applications in engineering

• Automation Engineering: basic principles of instrumentation and control and their applications in engineering

• Engineering Science: basic principles of physics, a range of materials, their properties, processing techniques

• Engineering Challenge 1: reinventing The Wheel – group project challenge which provides an opportunity for research and encourages creativity

• Engineering Challenge 2: group project simulating the introduction and automation of a manufacturing line (Semester 2)

Career Opportunities

Graduates will be in prime position to take up roles within small and medium enterprises and multinational manufacturing organisations across the following sectors: automotive, general manufacturing, agitech, pharma, and medtech.

The roles are varied and can include mechanical engineers; product engineers; design engineer; R&D engineer; polymer engineer; process engineer; production support engineer; facilities engineer; plant engineer; maintenance engineer; calibration engineer; project engineer; sales engineer; validation engineer; biomedical engineer; quality engineer; manufacturing engineer.
Mechanical Engineering (Honours)
Innealtóireacht Mheicniúil (Onóracha)

Application: CAO
CAO Code: MT 836
NFQ Level: 8
Award Title: Bachelor of Engineering (Honours) in Mechanical Engineering
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
Mechanical engineering involves the design, manufacture and operation of products, components or systems incorporating motion. Studying mechanical engineering enables students to learn how to systematically design essential machine elements and to devise solutions ranging from R&D or manufacture in automotive, aerospace, power generation and biomedical engineering applications, to the commissioning and maintenance of industrial or pharmaceutical facilities.

Design and project work is a major feature of the course. The Innovative Project Development modules in year 3 enable students, working in teams, to bring a concept from the idea stage through to a finished prototype, considering the technical performance and commercial potential of their designs. In the final year, each student undertakes an individual project involving research, design, prototype development and experimental verification to meet a real need.

Honours degree graduates generally gain employment as mechanical, design, manufacturing, production, process, plant, project or maintenance technologists/engineers. They work in fields such as aerospace, automotive, computer and electronic manufacture, machine and plant design, power generation, engine design, contracting and consulting, biomedical and pharmaceutical sectors.

Students have the option of undertaking a work placement in industry or in a research laboratory in Ireland or abroad with one of our partner institutions. Examples include ICAM, (France), Ennm (France), Uniten (Kuala Lumpur), University of Vigo (Spain), Czech Technical University in Prague, University of Applied Science, Frankfurt.

Accreditation
The BEng (Honours) in Mechanical Engineering is fully accredited by Engineers Ireland at the Bachelor (Honours) Level 8 educational standard. Further learning is required to meet the educational standard for Chartered Engineer.

Further Studies
At the end of year 3, subject to a minimum of a H2.2 standard achieved in year 3, students may elect to transfer to the integrated MEng in Mechanical Engineering (Level 9) comprising two further years (4 semesters) of study. Suitably qualified Level 8 graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Question Time
What level of design is involved with mechanical engineering?
Design is the main focus of the programme and utilises all the modern computer-aided design tools for 3D solid modelling, stress analysis, system simulation etc.

Are there any events I should attend to learn more about mechanical engineering?
MTU Bishopstown Campus usually hosts the Cork Mechanical, Manufacturing & Biomedical Engineering Annual Exhibition in April. Please see www.mtu.ie for details.

Is there a scholarship available for the course?
Yes. The MTU-DePuy Synthes Mechanical Engineering scholarship is open to CAO applicants and worth €3,000 per year for the successful candidate. DePuy Synthes (a Johnson & Johnson company) is a major multinational employer in the Cork region, manufacturing artificial joints in Ringaskiddy in Cork. The support of DePuy Synthes for the scholarship is a major endorsement of the relevance of the course to the Mechanical Engineering industry.

Career Opportunities
Mechanical Engineering is a broad-based discipline offering career opportunities in design, manufacturing, technical support in a wide range of industries including oil/gas, power generation, plant construction, medical devices, aerospace and automotive. Many mechanical engineers also progress into general management roles where their analytical skills are greatly valued.

First Year at a Glance
• Engineering Physics: application of physics to engineering problems
• Properties of Materials: appropriate choice of materials to use for a particular engineering/device application
• Engineering Computing: programming for engineering applications using numerical methods
• Thermofluid Mechanics: application of hot and cold fluid systems in engineering
• Mechanics: understanding the performance of engineering materials when subject to external loads and forces
• Engineering Chemistry: application of chemistry to engineering problems
• 3D CAD: computer-aided design (CAD) is similar to the Leaving Certificate subject Design and Communication Graphics
• Workshop: shaping and application of metal components
• Mathematics

Contact Information
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www.mtu.ie/MT836
Mechanical Engineering
Innealtóireacht Mheicniúil

Application: CAO
CAO Code: MT 736
NFQ Level: 7
Award Title: Bachelor of Engineering in Mechanical Engineering
Duration: 3 Years (6 Semesters)
Places: 80
Location: MTU Bishopstown Campus, Cork

Overview
Mechanical engineers play a crucial role in a wide range of industries, among them air, rail, sea and road. They are involved in high precision processes such as the design and manufacture of prosthetic devices and robotic mechanisms.

The physical scale of their work ranges from nanoscale motors and pumps through to high speed trains, wind turbines, and rocket/vehicles for space exploration. Mechanical engineering enables students to learn how to systematically design essential machine elements and using 3D computer aided engineering, to display and test these models.

This course has a strong emphasis on the practical side of mechanical engineering, exposing the student to many “hands on” modules in workshops and laboratories. Modules on the course are grouped into streams that run over the three years: Workshop Practice, Mechatronics, Mechanical Design and Computer Aided Engineering, Mechanics, Thermofluids, Materials, Management, Projects, Mathematics and Elective Options. Graduates are prepared to progress to further study or to take up challenging and varied careers in industry.

Recent projects have taken place in the following areas
• Engine development and design
• Sports equipment & training aids
• 3D modelling
• Automation systems
• Sustainable engineering

Accreditation
The BEng in Mechanical Engineering is fully accredited by Engineers Ireland for Associate Engineer eligibility.

Further Studies
Suitably qualified graduates are eligible to apply for entry to the one year add-on
• Bachelor of Engineering (Honours) in Advanced Manufacturing Technology or
• Bachelor of Engineering (Honours) in Process Plant Technology

A limited number of candidates may also be considered for entry to year 3 (which necessitates two further years of study)
• Bachelor of Engineering (Honours) in Mechanical Engineering

Question Time
What level of design is involved with Mechanical Engineering?
Design is a central theme of the programme and students use the latest 3D modelling software to develop and communicate their ideas.

Is there much practical work on the course?
Students get hands-on practice in mechanical workshop, welding, computer-aided design, mechatronics, and also have the option of selecting elective modules in automotive engineering. The course is designed to give an overall balance between practical activities and theory.

Are there any events I should attend to learn more about Mechanical Engineering?
MTU Bishopstown Campus usually hosts the Cork Mechanical, Manufacturing & Biomedical Engineering Annual Exhibition in April, the largest exhibition of its kind in Ireland. Please see www.mtu.ie for details.

Contact Information
Tony Kelly
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E: tony.kelly@mtu.ie

Career Opportunities
Mechanical engineering applies the principles of physics and materials science for analysis, design, manufacturing, and maintenance of mechanical systems.

Employment opportunities exist in the high-tech manufacturing industries at technician engineer level dealing with design, production, manufacturing, quality, estimating, planning and the operation and maintenance of high-tech automated manufacturing equipment. Other areas include
• Design technician/engineer
• Plant inspector/quality manager
• Manufacturing technician/engineer
• Technical sales engineer

First Year at a Glance
• Mechatronics: interaction between mechanical and electronic components
• 3D CAD: computer-aided design (CAD) is similar to the Leaving Certificate subject Design and Communication Graphics
• Properties of Materials: appropriate choice of materials to use for a particular engineering/device application
• Mechanics: understanding the performance of engineering materials when subject to external loads and forces
• Automobile Engineering: analysing automobile engines
• Thermo/Fluid Mechanics: application of hot and cold fluid systems in engineering
• Workshop: shaping and application of metal components
• Mathematics

www.mtu.ie/MT736
Overview
A quantity surveyor manages all costs relating to building and civil engineering projects, from the initial calculations to the final figures. Quantity surveyors seek to minimise the costs of a project and enhance value for money, while still achieving the required standards and quality. A quantity surveyor may work for either the client or the contractor, working in an office or on-site. They are involved in a project from the start, preparing estimates and costs of the work.

A significant emphasis is placed on project and experimental work with site visits and field trips making up an integral part of the coursework. The course culminates with students submitting a bespoke construction project of their choosing demonstrating the application of technically appropriate, economically viable and environmentally sustainable solutions, from inception through to contract completion. Graduates, upon gaining employment, may commence their structured training leading to designation as a chartered surveyor.

The work placement will familiarise the student with work practices and procedures and provide him/her with the opportunity to observe the practical application of theoretical knowledge gained on his/her programme. The placement is supported by a member of academic staff in MTU together with a workplace mentor. The aim of the industrial placement is to introduce the student to structured employment in a relevant work sector and to develop the student’s understanding of the organisation, its procedures and technology.

Accreditation
The course is fully accredited by the Society of Chartered Surveyors Ireland (SCSI), The Royal Institution of Chartered Surveyors (RICS), and the Chartered Institute of Civil Engineering Surveyors (CICES).

Further Studies
Suitably qualified graduates are eligible to apply for a postgraduate degree at MTU
• Postgraduate Diploma in Construction Project Management
• MSc in Construction Project Management
• MSc (by Research)

Question Time
What is the difference between a professional QS and a building QS?
The professional quantity surveyor represents the client in all aspects of construction from feasibility study to final construction costs. The professional quantity surveyor is normally office based within a consultancy firm although their working hours will invariably involve visiting sites to attend site meetings, and to monitor the progress and financial aspects of their construction projects.

The building quantity surveyor works for the main contractor/builder to control construction costs as they occur on site and normally this quantity surveyor is site based. They also procure various subcontractors to carry out different work packages for the building contract.

How do I become a chartered surveyor?
Eligible graduates may apply to the Society of Chartered Surveyors Ireland (SCSI) for membership and undertake the Assessment of Professional Competence (APC). This is typically over two years and successful completion of this entitles them to full chartered membership of the SCSI.

Can a quantity surveyor work also as a project manager?
The project management role can be undertaken by any of the construction professions, provided they have the necessary management skills and capability.

What type of site visits and field trips occur during the course?
Students are taken on regular site visits to support the in-class learning as well as putting their learning into context.

Contact Information
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Score the necessary CAO points and meet minimum Leaving Certificate requirements

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Structural Engineering (Honours)
Innealtóireacht Struchtúrtha (Onórica)

Application: CAO
CAO Code: MT 831
NFQ Level: 8
Award Title: Bachelor of Engineering (Honours) in Structural Engineering
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Bishoptown Campus, Cork

Overview
The course is taught primarily through lectures, practicals, and tutorials. A significant emphasis is placed on project and experimental work with site visits and field trips making up an integral part of the coursework. There is a continuing regional, national and international requirement for structural engineers with a knowledge of construction. The work placement in year 4 will familiarise the student with work practices and procedures and provide them with the opportunity to observe the practical application of theoretical knowledge gained on their programme. The placement is supported by a member of academic staff in MTU together with a workplace mentor. The aim of the industrial placement is to introduce the student to structured employment in a relevant work sector and to develop the student’s understanding of the organisation, its procedures and technology.

Accreditation
The BEng (Hons) in Structural Engineering is fully accredited by Engineers Ireland at the Bachelor (Honours) Level 8 educational standard. Further learning is required to meet the educational standard for Chartered Engineer. The taught MEng in Structural Engineering and the taught MEng in Civil Engineering (Environment and Energy), available in the Department as one year follow on courses, are fully accredited by Engineers Ireland as meeting the educational standard for Chartered Engineer. The taught MEng in Civil Engineering (Environment & Energy) is fully accredited by Engineers Ireland at the standard for Chartered Engineer.

Engineers Ireland represents all engineering disciplines in Ireland and is a member of Federation Europeene d’Associations Nationales d’Ingenieurs (FEANI) through which Irish engineers are recognised in Europe. Engineers Ireland is a signatory to the Washington Accord through which Irish engineers are recognised in USA, UK, Canada, Australia, New Zealand, Hong Kong & South Africa.

Contact Information
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Further Studies
At the end of year 3, subject to a minimum of a H2.2 standard achieved in year 3, students may elect to transfer to one of two integrated MEng (level 9) programmes comprising 2 further years (4 semesters of study):
• MEng in Structural Engineering
• MEng in Civil Engineering (Environment & Energy)

Students may of course choose to remain on the BEng Honours programme and complete their studies to level 8 in the final year of the honours degree programme.

Question Time
What is the difference between Structural Engineering and Civil Engineering?
Civil engineering is the professional engineering discipline which deals with the design, construction and maintenance of the physical infrastructure of the built environment. This includes works such as buildings, roads, bridges, water and wastewater treatment and supply and harbour and coastal engineering works. In addition to the technical skills required for the above work a civil engineer will also have competencies in related fields such as project and asset management & health and safety.

Structural engineering is a specialist discipline within civil engineering which deals with design, construction and maintenance of structures such as buildings, bridges, culverts, towers, masts and foundations. This course provides graduates with the skills to work as a civil engineer, however, an additional emphasis is placed on structural engineering studies thus giving the graduates enhanced skills in this area.

Is there a scholarship available?
Yes, the Arup Scholarship will be awarded to a first year student who registers on the programme and will comprise an award of €2,250 for each of the four years of the BEng (Hons) in Structural Engineering programme. Closing date: 21st March.

Career Opportunities
Graduates will be well equipped to find employment opportunities in consulting engineering offices and with building & civil engineering contractors. They may also be employed by state and semi-state bodies, including local authorities and utilities boards.

• Consulting civil & structural engineers
• Civil engineering contractors
• State/semi-state bodies and utility companies
• Local authorities

First Year at a Glance
• Engineering Mechanics: understanding the performance of engineering materials when subject to external loads and forces
• CAD with Design: computer-aided design similar to the Leaving Certificate subject Design and Communication Graphics
• Engineering Physics: introduction to geometric optics, atomic and nuclear physics, electromagnetism, and thermal Physics
• Engineering Chemistry: fundamentals of atomic theory and chemical bonding; inorganic and physical chemistry
• Material Science and Engineering: understanding the nature and properties of engineering materials
• Engineering Mathematics: mathematical topics of direct relevance to professional engineering studies
• Land Surveying: theory and practical application of linear surveying, levelling angle measurement, and the measurement of buildings
• Communication Skills: assists students in the transition to third-level education; team projects, oral & written presentation skills
• Elective module
Sustainable Energy Engineering (Honours)
Innealtóireacht Fuinnimh Inbhuanaithe (Onóracha)

Application: CAO
CAO Code: MT 837
NFQ Level: 8
Award Title: Bachelor of Engineering (Honours) in Sustainable Energy Engineering
Duration: 4 Years (8 Semesters)
Places: 30
Location: MTU Bishopstown Campus, Cork

Overview
Modules are delivered by staff from many different disciplines, allowing the student to gain understanding of the roles of a range of engineering disciplines involved in the energy and sustainability field. Site visits are organised which have included: wind farms, hydroelectric power stations, and solar installations. Visiting speakers provide industry input to the programme and have included GSK, Phillips 66, OpenHydro, Arup, Kingspan, Stryker, and Abbotts. Most of these companies now employ graduates from the programme.

A major individual research project is undertaken by each student in the final year. In most cases, this project has been brought back from the work placement and has real industry relevance.

There is a mandatory work placement module for a minimum of 10 weeks at the end of the third year, however, in most instances the company will extend this over the summer up to 6 months in total. The student will be placed in an energy related industry, consultancy, government agency (SEAI), or research group. The placement will be assessed by means of presentations, reports and research project development and is supported by a member of academic staff in MTU together with a workplace mentor. There are opportunities for students to spend this period abroad on a European exchange.

Accreditation
The course is professionally accredited by the Energy Institute to undergraduate level, further learning at masters level is required to meet the education standard for Chartered Engineer. The Energy Institute operates under the Engineering Council in the UK.

Further Studies
Honours degree holders who achieve the specified level of academic performance are eligible to apply for a postgraduate course of study, both at MTU and at other third level colleges in Ireland and abroad.

Question Time
How proficient in mathematics should I be?
Mathematics is used in all engineering disciplines and provides the tools for complex problems to be understood and solved. You would need to be comfortable with mathematics.

What kinds of energy systems are available at MTU Bishopstown campus?
- 2.4kW wind turbine
- Wind monitoring masts
- Solar thermal collectors
- Artificial sky unit
- EV charging point
- Zero energy building retrofit
- 4 wheel rolling road and engine test bed
- MTU/UTRC low energy building test bed

Contact Information
Maria Cullinane
T: +353 (0)21 433 5436
E: maria.cullinane@mtu.ie

Career Opportunities
Graduates have been employed as process engineers, design engineers and energy analysts. All major industry now requires that its energy use be minimised, and so energy graduates are working in all sectors of industry, including, biopharmaceutical, biomedical devices, energy supply utilities, and manufacturers of energy systems.

- Energy management
- Energy systems design
- Energy project management
- R&D energy engineer
- Process engineer
- Design engineer
- Engineering consultant

First Year at a Glance
- Sustainable Energy: study of energy resources and the necessity for energy sustainable sources
- The Science of Energy: the theory behind energy conversion processes
- Electrical Principles: fundamentals of electrical and electronic circuits
- Computer Control Applications: use of sensors, microprocessors & programming to control processes
- Mathematics: developing mathematical tools which underlie sustainable energy engineering
- Mechanics: basic principles of forces and movements that are fundamental to engineering design
- Engineering Chemistry: applying science of chemistry to engineering principles
- 3D CAD: CAD allows engineers to communicate their ideas graphically
- Sustainable Energy and Climate Change: study of energy

www.mtu.ie/MT837
Maritime Studies
<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 765</td>
<td>7</td>
<td>Bachelor of Engineering in Marine Electrotechnology</td>
<td>110</td>
</tr>
<tr>
<td>MT 764</td>
<td>7</td>
<td>Bachelor of Engineering in Marine Engineering</td>
<td>111</td>
</tr>
<tr>
<td>MT 766</td>
<td>7</td>
<td>Bachelor of Science in Nautical Science</td>
<td>112</td>
</tr>
</tbody>
</table>

Symbol Key:
- Work Placement
- Progression to the next NFQ level
- Garda Vetting
- Medical Required
- Exit Award
Marine Electrotechnology
Leictriteicneolaíocht Mhuirí

Application: CAO
CAO Code: MT 765
NFQ Level: 7
Award Title: Bachelor of Engineering in Marine Electrotechnology
Duration: 3 years plus approximately 1 year work placement
Places: 20
Location: National Maritime College of Ireland, Ringaskiddy, Co Cork

Overview
An Electro-technical officer (ETO) operates, maintains and calibrates all electrical, electronic and ship’s equipment. The ETO’s role is not restricted to the engine room and they may also work on complex systems located throughout any vessel.

This is an exciting programme to cater for the growing need on board ship for a specialist in electrical/electronic/networking systems.

The course shares its first two semesters with MT 764 BEng in Marine Engineering. Having completed year 1, Marine Electrotechnology students begin specialist electrical and electronic training. As well as lectures, training is provided in a variety of workshops and laboratories. This practical work is given to enhance the students’ learning experience. Practical knowledge of fundamental theory is gained in electrical, electronic, communications, and control laboratories. A broad understanding of ships and ship’s systems is delivered in electrical workshops and in the College’s own engine room.

Students who successfully complete year 1 and 2 are expected to be placed on a commercial ship, for practical training experience, and to gain the necessary ‘seatime’ for an internationally recognised Certificate of Competency. While at sea they must complete a comprehensive workplace training programme.

It should be noted that while every endeavour will be made to secure a suitable sea training berth, this is outside the control of MTU/NMCI and the College cannot accept responsibility for difficulties in securing such a berth.

Further Studies
There are opportunities for further study in related fields at honours degree level. Graduates will be well placed to pursue further studies in either electrical or electronic engineering.

Question Time
How do I go about getting a training berth while I am in college?
Securing a cadet berth at sea is a competitive process managed by NMCI in collaboration with shipping companies. Students secure a berth based on their performance at NMCI. The number of cadet berths varies each year, depending on shipping company requirements. NMCI has a strong track record in securing cadet berths, however they are not guaranteed.

If I graduate with this level 7 degree, can I further my studies in MTU as an electronic or electrical engineer at level 8?
MTU has a Recognition of Prior Learning structure and applicants may be exempted from modules in courses which are similar.

Contact Information
Capt. Sinead Reen
T: +353 (0)21 433 5612
E: NMCI.admissions@mtu.ie

For details, see www.nmci.ie

Application: CAO
CAO Code: MT 765
NFQ Level: 7
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Duration: 3 years plus approximately 1 year work placement
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CAO Code: MT 765
NFQ Level: 7
Award Title: Bachelor of Engineering in Marine Electrotechnology
Duration: 3 years plus approximately 1 year work placement
Places: 20
Location: National Maritime College of Ireland, Ringaskiddy, Co Cork

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If I graduate with this level 7 degree, can I further my studies in MTU as an electronic or electrical engineer at level 8?
MTU has a Recognition of Prior Learning structure and applicants may be exempted from modules in courses which are similar.

Contact Information
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For details, see www.nmci.ie
Marine Engineering
Innealtóireacht Mhuirí

Application: CAO
CAO Code: MT 764
NQF Level: 7
Award Title: Bachelor of Engineering in Marine Engineering
Duration: 3 years plus approximately 1 year work placement
Places: 40
Location: National Maritime College of Ireland, Ringaskiddy, Co Cork

Overview
The function of the marine engineer is to operate and maintain the engines, boilers, generators and other systems of ships. Most of the mechanical equipment aboard ship is operated and maintained by marine engineers. This course aims to provide a sound knowledge base of marine engineering.

As well as lectures, training is provided in marine, electrical, welding and mechanical workshops, supplemented with practical work in the College engine room, and simulation exercises in the machinery and cargo handling simulation suites.

Students who successfully complete year 1 and 2 are expected to be placed in a commercial ship, for practical training experience, and to gain the necessary ‘seatime’ for the Department of Transport Certificate of Competency, in their third year. In addition, while at sea, students must complete a comprehensive workplace training programme including training records, journals and other documents associated with the training programme, as specified from time to time.

It should be noted that while every endeavour will be made to secure a suitable sea training berth, this is outside the control of MTU/NMCI and the College cannot accept responsibility for difficulties in securing such a berth.

Further Studies
There are opportunities for further study in order that cadets will progress from the Officer of the Watch Level on to the Second Engineer Officer Certificate of Competency (CoC), and in due course to the Chief Engineer Officer Certificate of Competency with a combination of sea service, further study, and examinations.

Question Time
How do I go about getting a shipping company to sponsor me while I am in college?
Securing sponsorship is a competitive process managed by NMCI, with shipping companies. The number of sponsorships varies each year, depending on shipping company requirements. NMCI has a strong track record in securing sponsorships, however they are not guaranteed.

Do I have to work for the shipping company once I graduate?
The commitment from the sponsoring company usually ends upon graduation. However, a significant number of graduates go on to work as an officer with their sponsors.

How much sea going experience do I need before I can apply to sit for a Chief Engineer’s Certificate of Competency?
The minimum is three years on suitable vessels and voyages.

Contact Information
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For details, see www.nmci.ie

Career Opportunities
Qualified marine engineers are highly sought after both at sea and ashore. At sea they work on all types and sizes of vessels and with seagoing experience, and further study and professional exams, advance to second and chief engineer. Shore roles include marine superintendent in shipping companies, engineering surveyor, engineering management roles in the ports sector, the energy sector and in facility engineering for the pharmaceutical industry.

First Year at a Glance
- Introduction to Marine Engineering: the principles and practical aspects of marine engineering systems found on board ship
- Physics for Marine Engineers: giving an enhanced understanding of the physics principles underlying all engineering practice
- Mechanics: basic principles of forces and movements that are fundamental to engineering design
- Mechanical Workshop: a practical workshop module which gives a fundamental understanding of materials and the fabrication of designed components
- Technological Mathematics: offers great support to students in the first year of the engineering programme
- Introduction to Thermodynamics: learn how to apply the First Law of Thermodynamics and distinguish between the concepts of heat and temperature
- Electrical and Electronic Principles: gives students an understanding of the theoretical and practical principles of basic electrical and electronic components and circuits
- Marine Power Systems: this module gives students an understanding of the basic control power generation and distribution systems as well as a practical understanding of wiring system

www.mtu.ie/MT764
Overview
Nautical science has three main elements: navigation, cargo operations, and ship handling. In other words, the control of a ship; the safe operation of a ship, including the protection of life and the environment; Shipboard administration, and the handling, loading and care of cargoes which may be as diverse as petroleum products, general cargo, or thousands of new cars or passengers.

This course is designed for those who wish to pursue a career as a deck officer aboard ship. It provides a comprehensive education in navigation and other ship board activities. Students who successfully complete year 1 can expect to be placed on a series of commercial ships in year 2, gaining between twelve and fifteen months seatime for practical training experience, and to gain the necessary 'seatime' for the Department of Transport Certificate of Competency. In addition, students must complete a comprehensive workplace training programme including training records, journals and other documents associated with the training programme, as specified from time to time.

It should be noted that while every endeavour will be made to secure a suitable sea training berth, this is outside the control of MTU/NMCI and the College cannot accept responsibility for difficulties in securing such a berth.

Further Studies
Suitably qualified Nautical Science graduates may continue their studies and obtain the BSc (Honours) Nautical Science degree and Chief Mate professional qualification, as an add-on year.

Question Time
How do I go about getting a training berth to sponsor me while I am in college?
Securing a cadet berth at sea is a competitive process managed by NMCI, with shipping companies. Students secure a berth based on their performance at NMCI. The number of cadet berths varies each year, depending on shipping company requirements. NMCI has a strong track record in securing cadet berths, however they are not guaranteed.

Do I have to work for the sponsoring shipping company once I graduate?
The commitment from the sponsoring company usually ends upon graduation. However, a significant number of graduates go on to work as an officer with their sponsors.

How much sea going experience do I need before I can apply to sit for a Master’s Certificate of Competency?
A minimum of 36 months sea service is required to progress to Ship’s Captain. With leave and further study requirements, this sea service typically takes six to seven years to complete.

Contact Information
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E: NMCI.admissions@mtu.ie
For details, see www.nmci.ie

Career Opportunities
Graduates first become officer of the watch on a vessel after graduating and passing relevant examinations. They can advance to chief mate or ship’s captain with further study, examinations, and seatime. Career opportunities exist on a range of different types of ocean going vessels: bulk carriers, oil tankers, container ships, cruise and ferry vessels. There are also careers on specialist vessels, such as seismic and exploration ships, pilot vessels, tugs, and mega yachts.

- Ship’s officer (from junior ranks to captain)
- Harbour master/pilot
- Marine surveyor
- Maritime studies lecturer

First Year at a Glance
- Navigation & Meteorology: an introduction to both celestial and terrestrial navigation, together with an understanding of meteorology, as it relates to the seafarer
- General Ship Knowledge: elements of ship construction, stability and cargo operations
- Applied Nautical Science: the application of science and physics as it relates to the marine environment
- Seamanship: the theory and practice of seamanship, having regard to safe working practices
- Introduction to Shipboard Safety: includes short-course elements relating to firefighting, sea survival, and first aid training
- Bridge Watchkeeping: an introduction to the theory and practice of keeping a safe navigational watch, having regard to the International Regulations for the Prevention of Collisions at Sea

www.mtu.ie/MT766

Entry 2022
Career Opportunities
Location: National Maritime College of Ireland, Ringaskiddy, Co Cork
Places: 48
Duration: 3 and a half years including seatime
Fees: €14,000
Award Title: Bachelor of Science in Nautical Science
NFQ Level: 7
CAO Code: MT 766

For further information, please visit the Admissions section in this prospectus.

Applicants must pass the approved medical fitness and eyesight tests as specified by the Irish Maritime Administration of the Department of Transport, and are strongly advised to attend a career advisory session.
Biological, Physical, and Pharmaceutical Sciences
<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 879</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Agri-Biosciences</td>
<td>116</td>
</tr>
<tr>
<td>MT 877</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Agricultural Science</td>
<td>117</td>
</tr>
<tr>
<td>MT 777</td>
<td>7</td>
<td>Bachelor of Science in Agricultural Science</td>
<td>118</td>
</tr>
<tr>
<td>MT 750</td>
<td>7</td>
<td>Bachelor of Science in Agriculture</td>
<td>119</td>
</tr>
<tr>
<td>MT 774</td>
<td>7</td>
<td>Bachelor of Science in Analytical and Pharmaceutical Chemistry</td>
<td>120</td>
</tr>
<tr>
<td>MT 874</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Analytical Chemistry with Quality Assurance</td>
<td>121</td>
</tr>
<tr>
<td>MT 781</td>
<td>7</td>
<td>Bachelor of Science in Animal Bioscience</td>
<td>122</td>
</tr>
<tr>
<td>MT 775</td>
<td>7</td>
<td>Applied Biosciences (BSc Award Options)</td>
<td>123</td>
</tr>
<tr>
<td>MT 782</td>
<td>7</td>
<td>Bachelor of Science in Applied Physics</td>
<td>124</td>
</tr>
<tr>
<td>MT 680</td>
<td>6</td>
<td>Higher Certificate in Science in Biological and Environmental Studies</td>
<td>125</td>
</tr>
<tr>
<td>MT 875</td>
<td>8</td>
<td>Biological Sciences (Honours) (Common Entry) (BSc (Honours) Award Options)</td>
<td>126</td>
</tr>
<tr>
<td>MT 871</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Biomedical Science</td>
<td>127</td>
</tr>
<tr>
<td>MT 878</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Environmental Science and Sustainable</td>
<td>128</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Technology</td>
<td></td>
</tr>
<tr>
<td>CK 409</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Industrial Physics</td>
<td>129</td>
</tr>
<tr>
<td>MT 833</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Instrument Engineering</td>
<td>130</td>
</tr>
<tr>
<td>MT 876</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Nutrition and Health Science</td>
<td>131</td>
</tr>
<tr>
<td>MT 873</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Pharmaceutical Biotechnology</td>
<td>132</td>
</tr>
<tr>
<td>MT 772</td>
<td>7</td>
<td>Bachelor of Science in Pharmaceutical Science (Degree Award Option - Biopharmaceutics)</td>
<td>133</td>
</tr>
<tr>
<td>MT 872</td>
<td>8</td>
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<td>134</td>
</tr>
<tr>
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<td>6</td>
<td>Higher Certificate in Science - Pharmacy Technician</td>
<td>135</td>
</tr>
<tr>
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<td>136</td>
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<td>MT 770</td>
<td>7</td>
<td>Physical Sciences (Common Entry) (BSc Award Options)</td>
<td>137</td>
</tr>
<tr>
<td>MT 881</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Veterinary Bioscience</td>
<td>138</td>
</tr>
<tr>
<td>MT 880</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Wildlife Biology</td>
<td>139</td>
</tr>
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</table>

Symbol Key:
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- Progression to the next NFQ level
- Garda Vetting
- Medical Required
- Exit Award
Agri-Biosciences (Honours)
Bitheolaíochtaí Talmhaíochta (Onórracha)

Application: CAO
CAO Code: MT 879
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Agri-Biosciences
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
The agri-food industry is Ireland's largest homegrown industry, and this biosciences honours degree programme is designed to meet the growing need for scientists who have excellent technical competency and knowledge application in agri-biosciences.

The content is designed in collaboration with industry partners to meet the needs of the ever-evolving agri-food industry. Topics covered are contemporary and relevant both nationally and internationally. The lectures are supplemented with relevant examples, case studies, projects, assignments, site visits, web tools, and interactive media. There is a strong focus in agri-biosciences on practical techniques and approximately 50% of contact time is spent in the laboratory gaining in-depth technical experience.

Year 1 and 2 of the programme provide a strong foundation in biological science modules such as microbiology, biotechnology and biochemistry. Additionally, students engage with agri-specific modules gaining skills and knowledge in agricultural biotechnology, animal and plant physiology, and soil science. Year 3 and 4 of the programme provide further specialisation in the agri-biosciences, with students covering core topics such as agri-food microbiology, animal breeding, food quality, animal immunology and disease, crop biotechnology, bioinformatics and food analysis.

The mandatory work placement in year 3 is an integral and exciting element of the course programme in which the student joins the workforce of a relevant organisation. The students develop first-hand knowledge of organisational structure, modern analytical techniques used in the organisation, expand their knowledge of the agri-food industry, and further develop both professional and personal skills.

Further Studies
This course is an excellent platform for further studies, both in terms of short add-on courses, and more structured postgraduate degrees such as master of science and PhD programmes.

Question Time
How does this course differ from a traditional Agricultural Science course? The Agri-Biosciences degree programme is specifically tailored to train students in biological tools which can be applied to the agri-food industry to increase production and promote sustainability. Biological applications are central to the future of agri-food through advancements in genomics, crop biotechnology, veterinary diagnostics, animal breeding and animal feed production.

What personal skills are most suited to the course and subsequent careers? Those pursuing careers in agri-biosciences should be logical, analytically minded, detail oriented, team players, good communicators, motivated, and able to show initiative.

Is the agri-food industry secure? The agri-food sector is Ireland’s largest indigenous industry, providing employment to 8.4% of the working population. In 2016, Irish agri-food and drink exports increased by approximately 2% to €11 billion and gross agricultural output was valued at €7 billion. Further growth opportunities have been identified by the Department of Agriculture, Food and the Marine which aim to position Ireland as a world leader in sustainable agri-food production, through an emphasis on utilising research-led practices and novel biotechnologies.

Career Opportunities
Comprehensive training in biotechnology, microbiology, animal and crop physiology, quality systems and food analysis will allow graduates to gain employment both nationally and internationally, as key players across a variety of sectors within the agri-food industry. Some potential career routes include animal and food production, veterinary diagnostics, food composition analysis, animal feed production, and research and development.

• Research scientist
• Laboratory technician
• Animal feed production
• Diagnostic testing
• Quality control analyst
• Animal and crop breeding
• Research and development

First Year at a Glance
As well as learning the main core science subjects in first year, students will also be exposed to the following

• Cellular systems in animals and plants and their effect on growth and function
• The main components of agri-food products such as meat, milk and vegetables
• The prevalence of biotechnology in the Irish agri-food industry
• Different techniques used to bring agricultural outputs from farm to fork
• Modern laboratory methods used to analyse different cell and food types

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www.mtu.ie/MT879
Agricultural Science (Honours)
Eolaíocht Talmhaíochta (Onórracha)

Application: CAO
CAO Code: MT 877
NQF Level: 8
Award Title: Bachelor of Science (Honours) in Agricultural Science
Duration: 4 Years (8 Semesters)
Places: 16
Location: MTU Kerry South Campus and Teagasc Clonakilty Agricultural College

Overview
Agricultural science is the application of science and business to the primary production of quality food and ecosystem services. Agriculture is a huge growth industry, both in Ireland and internationally, and remains vital to the country’s economic development. Potential candidates interested in pursuing a career in the agri-food industry today, need to apply scientific knowledge to sustainable farm management. This helps to ensure that the range of agricultural activities – environmental awareness, food safety, animal welfare, advancements of Agri-Food technology and contemporary scientific knowledge are considered in the context of sustainable animal and crop production.

As a third-year student, you take part in a structured period of agri-food industry placement. It’s while on placement that you really see the value of your academic learning in a real-life working environment. Your placement lays the foundations of your personal career path. It’s all about developing skills, gaining knowledge and cultivating the attitude needed to build a rewarding career.

Modules are delivered at the MTU Kerry South Campus, however, semester four is taught in Teagasc Clonakilty Agricultural College, Co. Cork.

First and foremost, agricultural science programmes give your career a sound scientific foundation. Students take modules in a variety of scientific areas, including animal, crop, environmental and food sciences. In the economics and business module, you learn about the relationship between sustainable agriculture and consumers. These programmes give you everything you need to launch an agri-science/agri-business career in Ireland and beyond.

A BSc in Agricultural Science is listed as one of the qualifications which meets the requirements for Stamp Duty Exemption for Transfers of Land to Young Farmers (www.revenue.ie).

Question Time
Would I be qualified to teach Agricultural Science at second level if I do this course?
The modules covered meet the Teaching Council subject requirements to teach Agricultural Science to Leaving Certificate level. Students who opt to take an extra 5 credit module in physics will also meet the Teaching Council subject requirement to teach Science up to Junior Certificate level. Graduates who wish to teach will also be required to complete a two-year Professional Master of Education (PME).

Further Studies
While the majority of students complete their honours degree in MTU there is also an agreed progression route which, on successful completion of year three, provides students the opportunity to apply for entry to year three of one of the following streams on the BSc (Hons) in Agricultural Science in UCD

• Animal and crop production
• Agricultural systems technology
• Food and agribusiness management

Suitably qualified Level 8 Honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

• Sustainable Agriculture and Land use with Innovation (Level 9 Postgraduate Diploma, MTU Kerry)

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Career Opportunities
• Farm management
• Technical service and consultancy
• Research
• Education
• Marketing and communications
• Primary production of quality food products
• Agribusiness
• Consultancy

First Year at a Glance
• Animal and Plant Biology: introduces basic biological concepts relating to the structure (anatomy) and workings (physiology) of bacteria, animal and plant cells
• Agri-Chemistry: looks at basic chemical principles, concepts and terminology necessary for an understanding of agricultural science
• Scientific Communication and Computer Applications: introduction to the most frequently used computer applications in laboratory analysis and develops skills for interpersonal communication including oral and written presentations
• Essential Scientific Maths: this module will ensure that students will have appropriate numerical, algebraic and graphical skills and are able to apply these skills successfully within their discipline
• Overview of the Agri-Food Industry: a holistic and comprehensive review of the agri-food sector in Ireland
• Crop Science: the fundamentals of agronomy including crop morphology, identification of species and crop physiological requirements
• Physics Concepts: provides knowledge of basic physics principles, concepts, ideas and terminologies and enable the student to apply to various physical phenomena
• Soil Science: introduces the biological, chemical and physical properties of soil

www.mtu.ie/MT877
Agricultural Science
Eolaíocht Talmhaíochta

Application: CAO
CAO Code: MT 777
NFQ Level: 7
Award Title: Bachelor of Science in Agricultural Science
Duration: 3 Years (6 Semesters)
Places: 32
Location: MTU Kerry South Campus and Teagasc Clonakilty Agricultural College

Overview
Agricultural science is the application of science and business to the primary production of quality food and ecosystem services. Agriculture is a huge growth industry, both in Ireland and internationally, and remains vital to the country’s economic development. Potential candidates interested in pursuing a career in the agri-food industry today, need to apply scientific knowledge to sustainable farm management. This helps to ensure that the range of agricultural activities – environmental awareness, food safety, animal welfare, advancements of agri-food technology and contemporary scientific knowledge are considered in the context of sustainable animal and crop production.

As a third-year student, you take part in a structured period of agri-food industry placement. It’s while on placement that you really see the value of your academic learning in a real-life working environment. Your placement lays the foundations of your personal career path. It’s all about developing skills, gaining knowledge and cultivating the attitude needed to build a rewarding career.

Modules are delivered at the MTU Kerry South Campus, however, semester four is taught in Teagasc Clonakilty Agricultural College, Co. Cork.

First and foremost, agricultural science programmes give your career a sound scientific foundation. Students take modules in a variety of scientific areas, including animal, crop, environmental and food sciences. In the economics and business module, you learn about the relationship between sustainable agriculture and consumers. These programmes give you everything you need to launch an agri-science/agri-business career in Ireland and beyond.

A BSc in Agricultural Science is listed as one of the qualifications which meets the requirements for Stamp Duty Exemption for Transfers of Land to Young Farmers (www.revenue.ie).

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year)
• Bachelor of Science (Honours) in Agricultural Science

While the majority of students complete their honours degree in MTU there is also an agreed progression route which, on successful completion of year three, provides students the opportunity to apply for entry to year three of one of the following streams on the BSc (Hons) in Agricultural Science in UCD
• Animal and crop production
• Agricultural systems technology
• Food and agribusiness management

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Career Opportunities
• Farm management
• Technical service and consultancy
• Research
• Education
• Marketing and communications
• Primary production of quality food products
• Agribusiness
• Consultancy

First Year at a Glance
• Animal and Plant Biology: introduces basic biological concepts relating to the structure (anatomy) and workings (physiology) of bacteria, animal and plant cells
• Agri-Chemistry: looks at basic chemical principles, concepts and terminology necessary for an understanding of agricultural science
• Scientific Communication and Computer Applications: introduction to the most frequently used computer applications in laboratory analysis and develops skills for interpersonal communication including oral and written presentations
• Essential Scientific Maths: this module will ensure that students will have appropriate numerical, algebraic and graphical skills and are able to apply these skills successfully within their discipline
• Overview of the Agri-Food Industry: a holistic and comprehensive review of the agri-food sector in Ireland
• Crop Science: the fundamentals of agronomy including crop morphology, identification of species and crop physiological requirements
• Physics Concepts: provides knowledge of basic physics principles, concepts, ideas and terminologies and enable the student to apply to various physical phenomena
• Soil Science: introduces the biological, chemical and physical properties of soil.
The course develops farming, business and management skills to enable graduates to follow careers as successful commercial farmers or in the agri-business sector. It will provide graduates with the skills they will need to be able to participate actively in policy decisions – whether they are local, regional or international – which will influence their profession and its role in a modern economy.

- Farm manager
- Agricultural consultant
- Sales representative
- Retail management

Do I have to be a farmer to study agriculture?
No. The course has access to the farm resources at Teagasc Clonakilty Agricultural College necessary to complete the programme.

What are my other career prospects if I don’t want to go into farming?
Graduates can progress to complete the one year add-on BSc (Honours) in Agriculture or pursue employment opportunities with agricultural related business, e.g. sales representative, quality control and production manager.

Are there travel opportunities?
Each year, students undertake placement opportunities overseas, e.g. with large dairy farms in New Zealand. Placement can also be organised in Ireland.

Further Studies
Suitably qualified graduates (minimum overall grade of 40% in year 3 of the programme) are eligible to apply for entry to the one year add-on Bachelor of Science (Honours) in Agriculture

Graduates of the programme can also pursue specialisations in agriculture with other Higher Education Institutes in Ireland and overseas.
Analytical & Pharmaceutical Chemistry
Ceimic Anailíseach agus Cógaisíochta

Application: CAO
CAO Code: MT 774
NFQ Level: 7
Award Title: Bachelor of Science in Analytical & Pharmaceutical Chemistry
Duration: 3 Years (6 Semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
Analytical chemistry deals with the great variety of methods used to identify and quantify the chemical components of materials, while pharmaceutical chemistry focuses on aspects of drug design, synthesis, and manufacture.

Courses in chemistry at MTU have provided many of the highly skilled personnel at various levels required by the industry. School leavers are offered a flexible and attractive route through an extremely diverse science. The BSc in Analytical and Pharmaceutical Chemistry prepares students for laboratory-based careers; activities include preparation of chemicals and samples for use, analysis of raw materials and products of chemical processes, set-up/maintenance/use of chemical instrumentation. Computerised instruments and information technology are important in this work, and graduates may work in quality assurance, analysis, research, development, and production in a wide range of industrial sectors such as biopharmaceuticals, food and beverage, environmental analysis, etc.

The course aims to give students the knowledge and skills to practice chemistry in the laboratory environment.

Further Studies
Graduates who have attained a minimum final average mark of 50% may proceed to year 4 (final year) of the Bachelor of Science (Honours) in Analytical Chemistry with Quality Assurance (ACQUA).

This in turn may lead to the option to proceed to postgraduate studies (MSc or PhD) in Chemistry at MTU or other universities in Ireland or abroad.

After obtaining the BSc (Honours) in Analytical Chemistry with Quality Assurance, graduates may apply for a 2 year, full time, Professional Master of Education (120 ECTS credits). On completion, graduates are eligible for registration with the Teaching Council.

Question Time
I didn’t study Chemistry for the Leaving Certificate, am I at a disadvantage?
No – the fundamentals of biology, chemistry, and physics are delivered during the first semester, with chemistry being further developed as the course progresses.

What is the difference between MT 874 and MT 774?
Students commencing on the MT 774 route will have completed the ordinary BSc Degree in 3 years, while those starting on MT 874 will take 4 years to complete the Honours BSc Degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

What personal skills are most suited to the course and subsequent careers?
Numeracy, accuracy, precision; good practical and manipulative skills; an analytical approach to problem solving, i.e. the ability to relate a numerical answer to the physical reality that it represents.

Is it possible to obtain a Higher Certificate award after two years?
Yes. Students who successfully complete year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Science in Chemistry.

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Career Opportunities
Career opportunities exist not only in the BioPharmaChem industry, but also in such diverse areas as environmental analysis, elemental analysis (metallurgy), and food/beverage processing, forensic analysis, contaminant analysis (e.g. in sports), etc. Graduates have become senior technicians, analysts, laboratory managers, and quality control supervisors. Some have progressed into company management positions over the years, and some have started and managed their own companies.

• Chemical laboratory technician
• Laboratory quality assurance
• Product development
• Pharmaceutical production

First Year at a Glance
• Chemical Principles: study of general chemical Interactions
• Physics: study of fundamental basis of energy, light and heat
• Laboratory Skills: understanding the basis for good laboratory practice in a chemistry laboratory
• Biology: study of fundamental building blocks of life
• Mathematics: students use maths to problem solve
• Creativity, Innovation and Teamwork: Team building, independent working and communication skills development

www.mtu.ie/MT774
Analytical Chemistry with Quality Assurance (Honours)
Ceimic Anailíseach le Dearbhú Cáilíochta (Onóracha)

Application: CAO
CAO Code: MT 874
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Analytical Chemistry with Quality Assurance
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
Chemists analyse and understand everyday materials to determine efficient and safe ways of transforming them into useful products, develop new products and materials, and monitor production processes to ensure the quality of finished products.

Analytical Chemistry is the speciality dealing with devising, selecting, and using methods for determining the identity and quantity of chemical composition of samples such as drugs, medicines, food and beverage, water, air etc. These have key components that are present at very low levels or concentrations, and many sophisticated techniques have been developed for their detection and analysis.

The BSc (Honours) in Analytical Chemistry with Quality Assurance (ACQUA) prepares students for careers in the biopharmaceutical and chemical industries and other areas such as environmental monitoring, food/beverage, oil and gas analysis, forensics, etc. Graduates identify and solve analytical problems by the selection and use of a wide range of methods and techniques – from the mainstream areas of spectroscopy, chromatography, and electrochemistry, to more specialised areas such as particle size analysis or immunoassay techniques.

This honours degree also focuses on quality assurance, which is of vital importance to the biopharmaceutical, chemical and allied industries. The course is examined using a combination of continuous assessment of both theory and practical work, and end of year examinations.

This honours degree is recognised by the Institute of Chemistry of Ireland for membership (MICI); graduates are also eligible to apply for Associate Membership of the Royal Society of Chemistry (AMRSC).

Further Studies
Graduates may apply for a 2 year, full time, Professional Master of Education (120 ECTS credits). On completion, graduates are eligible for registration with the Teaching Council.

Suitably qualified graduates can continue to postgraduate research study with a number of MTU research groups associated in areas such as Mass Spectrometry Analysis, Chemical Analysis (www.cappa.ie/), or progress to research centres elsewhere.

Question Time
If I didn’t study Chemistry for the Leaving Certificate, am I at a disadvantage?
No – the fundamentals of biology, chemistry, and physics are delivered during the first semester, with chemistry being further developed as the course progresses.

What is the difference between MT 874 and MT 774?
Students commencing on the MT 774 route will have completed the ordinary BSc Degree in 3 years, while those starting on MT 874 will take 4 years to complete the Honours BSc Degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

What personal skills are most suited to the course and subsequent careers?
Numeracy, accuracy, precision; good practical and manipulative skills; an analytical approach to problem solving, i.e. the ability to relate a numerical answer to the physical reality that it represents. Good communication skills are also important. Graduates of this programme typically are employed as part of a team in global BioPharmaChem companies and must work effectively with colleagues from a wide range of disciplines.

Career Opportunities
Graduates are prepared for laboratory careers in the BioPharmaChem industries and other industries. They are qualified in areas such as quality standards, good manufacturing practice, total quality management, and regulatory compliance. They may take up leadership roles in areas such as method design and implementation, process validation, and management of quality systems. Graduates of this programme continue to find employment in a range of high demand rewarding roles, primarily in the regional advanced manufacturing sectors, in particular biopharma and chemical industries. Roles include:

• BioPharma laboratory analyst
• Quality management and regulatory compliance
• Pharmaceutical and chemical research
• Chemistry teaching
• Environmental testing & analysis

First Year at a Glance
• Chemical Principles: study of general chemical interactions
• Physics: study of fundamental basis of energy, light and heat
• Laboratory Skills: understanding the basis for good laboratory practice in a chemistry laboratory
• Biology: study of fundamental building blocks of life
• Mathematics: students use maths to problem solve
• Creativity, Innovation and Teamwork: Team building, independent working and communication skills development

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Animal Bioscience
Bitheolaíocht Ainmhithe

Application: CAO
CAO Code: MT 781
NFQ Level: 7
Award Title: Bachelor of Science in Animal Bioscience
Duration: 3 Years
Places: 32
Location: MTU Kerry South Campus

Overview
Our biological science degree in Animal Bioscience has a major focus on animal health, disease and diagnostics. The animal biosciences discipline is experiencing significant growth, both nationally and internationally, due to an increased demand for diagnostics to underpin animal health and disease management globally.

This research-led curriculum will provide you with an excellent understanding of the key elements of biology, health and disease in both production animals (cattle, sheep, pigs and poultry) and companion animals (dogs, cats and horses), and the tools to provide diagnostics strategies for the prevention, recognition and control of animal diseases. This degree is delivered by leading life-scientists and veterinarians, who will guide you through your learning, from developing a practical understanding of animals and how they function, to veterinary pharmaceutical, advanced laboratory diagnostic and research skills in animal health.

Delivery of the programme’s emphasis on animal health and veterinary diagnostics is supported by practical, hands-on experience and interaction with animals throughout and a dedicated work placement programme in year three.

Government departments and private laboratories require veterinary scientists to develop and operate laboratory diagnostics. Biopharmaceutical companies require such graduates to research and develop new biologicals to prevent and treat disease. The food industry requires veterinary scientists to safeguard the safety of food and the welfare of animals. Farmers, feed production operators and reproductive specialists require our graduates for herd health programmes, nutrition experts and reproductive analysis, respectively.

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to Year 4 (final):
• Bachelor of Science (Honours) in Veterinary Bioscience.

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Career Opportunities
• Animal health researcher
• Herd health advisor
• Public (civil) servant
• Animal nutritionist
• Pharmaceutical drug and vaccine developer
• Clinical practice manager
• Animal diagnostic laboratory officer

First Year at a Glance
In your first year, you’ll study topics that are fundamental to animal biosciences:
• Animal and Plant Biology: basic biological concepts, processes, systems and structures
• Animal Behaviour and Welfare: Practical knowledge of normal patterns of behaviour as well as developing concepts and theories relating to animal welfare, veterinary ethics and applied welfare issues in common farm and companion animal species
• Animal Production Systems: principles of the major systems of animal production. The practical element of the module teaches skills to approach, handle, restrain and conduct a health check on animals
• Veterinary Anatomy: two modules will develop a detailed understanding of the anatomy of animals, relating anatomical structures to clinical and biological problems
• Chemistry: chemical concepts and terminology essential for building a sound foundation for understanding and learning chemistry
• Essential Scientific Maths: Ensures that students will have appropriate numerical, algebraic and graphical skills and be able to apply these skills successfully
• Physics Concepts: provides knowledge of basic physics principles, concepts, ideas and terminologies and enable the student to apply to various physical phenomena
• Mathematics and Statistics for Science: provides students with a knowledge of mathematics and statistics to describe and analyse scientific data.
**Career Opportunities**

Graduates from this course have traditionally gained employment in the pharmaceutical, and food and healthcare industries, where graduates function in a variety of roles including: quality analysts, microbiologists, purification specialists, researchers and technicians. Graduates also have the option to progress to further academic studies at Level 8 at MTU.

- Pharmaceutical industry
- Food and healthcare industries

**First Year at a Glance**

As well as learning the main core science subjects in first year, students will also be exposed to modules in Biotechnology, and Food and Healthcare. The student will have the opportunity to study the different aspects of the following areas:

- Biotechnology: the application of biological systems to produce useful products
- Food Science: the science relating to the production of high quality, safe and nutritious food

There is a very significant emphasis placed on the practical laboratory aspect of the modules studied in first year, where the students are expected to perform experimental investigations under supervision, collate data, interpret results, and write scientific reports.

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**Further Studies**

Suitably qualified graduates of the BSc in Food & Health Science may apply for entry to year 4 (final year)

- Bachelor of Science (Honours) in Nutrition & Health Science

Suitably qualified graduates of the BSc in Applied Biosciences & Biotechnology may apply for entry to year 4 (final year)

- Bachelor of Science (Honours) in Pharmaceutical Biotechnology

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**Question Time**

Do I need to have Chemistry and Physics at Leaving Certificate level coming into the course?

No, the Chemistry and Physics modules taught in first year are designed for students who enter the programme without prior knowledge of these subjects. In addition, the MTU Academic Learning Centre at the Bishopstown Campus provides additional free tutorial support for both these modules.

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**What personal skills are most suited to the course and subsequent careers?**

The best students and professional biotechnologists all possess a keen interest in biology and a desire to understand how complex biological processes work.

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**Contact Information**

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**Overview**

In MT 775 Applied Biosciences, years 1 and 2 are common. Students will not be required to choose their preferred qualification (Food & Health Science or Applied Biosciences and Biotechnology) until the beginning of year 3.

Knowledge of environmental science, analytical techniques, quality management and bioprocessing are seen as key requirements and these disciplines are studied in detail. Laboratory work forms a substantial part of the course. The development of high-level laboratory skills and the ability to use them in the service of advanced industrial biology are key aims of the course. Opportunities currently exist for a number of students on courses to participate in EU funded exchange programmes involving colleges and enterprises in Europe.

The Bachelor of Science in Applied Biosciences and Biotechnology meets the demands of biotechnology, food and pharmaceutical industries for technologists and analysts. In addition, the requirements of the services and research laboratories for staff trained in biologically based analytical techniques are met by graduates of the course.

The Bachelor of Science in Food & Health Science meets the changing needs of the Food, Pharmaceutical and Biotechnology industries for technicians and analysts. Graduates are in great demand from multinational pharmaceutical companies, as well as the traditional employers in the food and drink sectors.

Advanced manufacturing in the food, healthcare, cosmetic, pharmaceutical and chemical industries have been employment destinations for graduates of this course as well as state and local authority laboratories.

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**Further Studies**

Suitably qualified graduates of the BSc in Food & Health Science may apply for entry to year 4 (final year)

- Bachelor of Science (Honours) in Nutrition & Health Science

Suitably qualified graduates of the BSc in Applied Biosciences & Biotechnology may apply for entry to year 4 (final year)

- Bachelor of Science (Honours) in Pharmaceutical Biotechnology

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**Question Time**

Do I need to have Chemistry and Physics at Leaving Certificate level coming into the course?

No, the Chemistry and Physics modules taught in first year are designed for students who enter the programme without prior knowledge of these subjects. In addition, the MTU Academic Learning Centre at the Bishopstown Campus provides additional free tutorial support for both these modules.

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**What personal skills are most suited to the course and subsequent careers?**

The best students and professional biotechnologists all possess a keen interest in biology and a desire to understand how complex biological processes work.

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**Contact Information**

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Applied Physics & Instrumentation
Fisic Fheidhmeach agus Ionstraimiocht

Application: CAO
CAO Code: MT 782
NFQ Level: 7
Award Title: Bachelor of Science in Applied Physics & Instrumentation
Duration: 3 Years (6 Semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
The BSc in Applied Physics & Instrumentation is a long established course and highly sought-after graduates can be found in essentially all of the region’s advanced manufacturing and analysis sectors, but especially in the BioPharmaChem sector. The aim of this course is to prepare graduates for a range of technical positions within the multidisciplinary field of applied physics and instrumentation. Whilst there is particular emphasis on employment within process industries, such as chemical, pharmaceutical, biotechnology, food, beverage and water, graduates are well equipped for employment in other sectors such as computers, medical devices and microelectronics, as well as in hospitals and in research and development.

The course is examined using a combination of continuous assessment of both theory and practical work, and end of year examinations. In year 3, students are placed in an applied physics and/or instrumentation role within an industry, organisation or research group. It may be possible for the placement to be in an international location. Students will acquire comprehensive knowledge of process control, quality and safety systems in the context of the operations of process industries and the nature of their products. They will also be able to diagnose problems and implement solutions for a wide range of instrumentation systems used to measure and control technical processes.

Accreditation
This degree is recognised by the Institute of Physics. Graduates of recognised degrees qualify for associate membership upon graduation and may apply for full membership after appropriate work experience. The Institute of Physics provides routes for suitably qualified and experienced members to become chartered physicists and chartered engineers. Further details can be found on the Institute of Physics website.

Further Studies
Suitably qualified graduates are eligible to apply for entry to year 4 (final year)
• Bachelor of Science (Honours) in Instrument Engineering or the one year add-on
• Bachelor of Science (Honours) in Applied Physics & Instrumentation

After obtaining the BSc (Honours) in Applied Physics & Instrumentation, graduates may apply for a 2 year, full time, Professional Master of Education (120 ECTS credits). On completion, graduates are eligible for registration with the Teaching Council.

Question Time
How helpful is it to have physics at Leaving Certificate level?
Whilst physics at Leaving Certificate level is helpful, it is not essential as the key content in physics is covered in year 1 of the course.

What personal skills are most suited to the course and subsequent careers?
Ability to communicate with scientists, engineers and production teams.

What should my interests be?
How things work, problem-solving and meeting technical challenges.

Where am I likely to work?
There are excellent employment opportunities locally, nationally and internationally. Graduates typically work as junior instrument, control or automation engineers, metrology specialists, calibration engineers and production teams.

Career Opportunities
Whilst many of the graduates of this course progress to an honours degree, there are many immediate employment opportunities locally, nationally and internationally. Graduates typically work as junior instrument, control or automation engineers, metrology specialists, calibration engineers and production teams.

• Scientific instrument calibration
• Instrument/automation/control engineering
• Research and development
• Metrology

First Year at a Glance
• Mathematics: developing the tools for instrument calibration and automation
• Chemical Principles: physical sciences to the fundamentals of atomic theory, chemical bonding, the periodic table, physical states of matter, and stoichiometric calculations
• Fundamental Physics: an introductory course comprising foundation physics topics relevant to all fields of Science
• Sensors and Systems: the components of measurement systems using a variety of sensors
• Measurement and Calibration of sensors used for industry
• Creativity, Innovation and Teamwork: Team building, independent working and communication skills development

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www.mtu.ie/MT782
Biological and Environmental Studies
Staidéar Bitheolaíoch agus Comhshaoil

Application: CAO
CAO Code: MT 680
NFQ Level: 6
Award Title: Higher Certificate in Science in Biological and Environmental Studies
Duration: 2 Years (4 Semesters)
Places: 16
Location: MTU Kerry South Campus

Overview
This 2-year course provides a basis in the biological sciences (biology and chemistry) along with introductory ecology, environmental and earth science. It provides a foundation for continuation to level 7 and 8 qualifications in this area, (especially MT 880 Wildlife Biology) and can be used to enter the workforce directly.

The course involves a mix of theory, laboratory practice and field activity. Each week includes a full day of field work, at different locations in wildlife-rich Co. Kerry and beyond. In first year, a foundation in biology, chemistry and numeracy is provided, and this is built on in second year with modules in botany, ecology, zoology and microbiology. Practical modules in outdoor skills and Geographical Information System are also taken. The course provides insight into the kingdoms of life, giving a strong base on which to build deeper, more focused wildlife study.

This programme is unique to the MTU Kerry Campus and attracts students from across Ireland and beyond. Kerry’s stunning and diverse natural landscape is an ideal location for the programme. The course provides a highly marketable blend of biological and environmental studies skills, both in field and laboratory. Field sites include a variety of wildlife habitats and special areas of conservation, as well as environmental management facilities like water treatment, waste water treatment facilities, and wind farms.

Further Studies
Suitably qualified Level 6 graduates are eligible to progress to year 3 of the Level 8 programme
• Bachelor of Science (Honours) in Wildlife Biology

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Career Opportunities
In addition to the generic transferable skills obtained, graduates gain training suitable for employment with environmental non-Governmental Organisations (NGOs), education/eco-tourism providers, wildlife rescue, and as research assistants and support staff on conservation projects.

First Year at a Glance
• Biology: an overview of the kingdom of life and the processes that makes living things work
• Chemistry: a thorough introduction to the elements, molecules and reactions that affect life, both within organisms and in the environment
• Scientific Communication and Computer Applications: develops skills for interpersonal and scientific communication
• Irish Wildlife: overview of the fauna of Ireland with reference to life histories, habitat and conservation status
• Outdoor Skills: foundation levels of personal skills and competencies in a range of outdoor environments
• Physics Concepts: an introduction to physics as a basis for understanding mechanics and energy in the living world
• Introduction to Environmental Science - global environmental challenges, environmental degradation and effects on human health
• Field Biology and Earth Science: practical field biology and introductory geology and physical geography
• Mathematics and Statistics for Science: basic mathematical methods and introductory statistics to describe and analyse data.

www.mtu.ie/MT680
Overview
The common biological science honours entry scheme is a two year programme designed for students interested in biological sciences as a career, but who may be unsure of which discipline to follow.

The scheme gives students the opportunity to see the three disciplines, first hand, through the various modules on offer, interaction with lecturers, and industrial site visits. This allows the student to make an informed decision on their discipline of study.

On successful completion of year 2, students can enter the third year of any of the following honours biological science degrees:

• MT 873 BSc (Honours) in Pharmaceutical Biotechnology
• MT 876 BSc (Honours) in Nutrition and Health Science
• MT 879 BSc (Honours) in Agri-Biosciences

Pharmaceutical Biotechnology Graduates will be able to grow and engineer biological cells in order to make safe and effective medicines using the most up-to-date information and technologies available.

Nutrition and Health Science Graduates will be able to apply knowledge of the role of biotechnology in agri-food and animal sciences to support and develop technologies (e.g. health, reproduction and diagnostics) for the improvement of global agri-food production systems.

Career Opportunities
Agri-Biosciences: research scientist; laboratory technician; animal feed production; diagnostic testing; quality control analyst; animal and crop breeding; research and development.

Nutrition and Health Science: research scientist in food and related healthcare industries; new product development, production and marketing in food and related healthcare industries; food safety and food regulation in food industry and governmental agencies; nutrition communication in food information organisations; quality assurance.

Pharmaceutical Biotechnology: quality control analyst; microbiologist; bio-assay specialist; technical/process specialist; research and development.

First Year at a Glance
As well as learning the main core science subjects in first year, students will be exposed to the following:

• Evaluating the role of food in health, wellness, and nutrition space
• Making biological medicines: learn the basics of how cells can be used to make modern medicines
• Understanding the role of microbiology, physiology and biotechnology in the agri-food sector
• Perform experimental laboratory procedures

Question Time
Am I guaranteed my choice of study at the end of year 2?
Yes. Successful completion of the common entry biological sciences programme ensures guaranteed entry to year 3 of the BSc (Honours) programme of choice from the list given.

Do I need to have studied chemistry at Leaving Certificate to apply for this course?
No. Students study Biological Chemistry 1 and Biological Chemistry 2 modules in first year; these modules are designed for students who do not have chemistry as a Leaving Certificate subject.

In addition, the MTU Academic Learning Centre on the Bishopstown Campus provides free tutorial support for first year Chemistry modules.

Will I have work placement?
Students will undertake a mandatory work placement in year 3 for a duration of either 6 months (Agri-Biosciences) or 16 weeks (Nutrition and Health Science/ Pharmaceutical Biotechnology)

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Biomedical Science (Honours)
Eolaíocht Bhithleighis (Onóarcha)

Application: CAO
CAO Code: MT 871
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Biomedical Science
Duration: 4 Years (8 Semesters)
Places: 30
Location: MTU Bishospstown Campus, Cork, and University College Cork.

Overview
This honours degree course is offered jointly by MTU and UCC.

Biomedical science is the term for the investigations carried out by medical scientists on samples of tissue and body fluids to diagnose disease and monitor the treatment of patients.

Medical scientists work in partnership with doctors and other healthcare professionals to perform many different roles in medical laboratories. Biomedical science is a continually changing dynamic profession and involves study of the diverse areas of medical science including biochemistry, microbiology, cellular pathology, haematology and transfusion science. It provides training in state-of-the-art technologies to facilitate investigation of disease and medical research.

Work Placement
Work placement is not an integral part of this four year degree programme. Upon completion of the BSc (Hons) programme the graduates may progress to the Diploma in Clinical Laboratory Practice. This diploma is optional and takes one academic year to complete. It is important to note that both the BSc (Honours) in Biomedical Science and the Diploma in Clinical Laboratory Practice are together required to practice as a medical scientist in Ireland.

Accreditation
The BSc (Honours) in Biomedical Science together with the Diploma in Clinical Laboratory Practice are fully accredited by the Academy of Clinical Science and Laboratory Medicine, and by the Institute of Biomedical Sciences.

Further Studies
Suitably qualified graduates are eligible to apply for a postgraduate degree at MTU
• MSc (by Research)
• PhD

Question Time
Are there any specific requirements for students of this programme?
Students on this BSc (Hons) programme must obtain a course of occupational vaccinations for their safety. These will be coordinated and administered through the MTU Medical Centre, Bishospstown Campus, but will be at a financial cost to the student.

The current vaccination requirements are Hepatitis B (year 1) and both Hepatitis A and REVAXIS in year 2. The approximate combined cost for these vaccinations in the academic year 2020-2021 was €150. The vaccine requirements and costs are reviewed each year and may be subject to change.

Is it an advantage to have chemistry and physics coming into the course?
It is always an advantage to have chemistry and physics coming into a course such as Biomedical Science. However, it is feasible to take up one or both of these subjects on entry to the course, and the first year programme is tailored to support students who enter the programme without prior knowledge of these subjects.

What kind of person should you be?
Applicants to the programme should have a keen interest in science, laboratory medicine, and health. This profession requires scientists that are mindful of their responsibility when dealing with human health. Confidentiality is of paramount importance as information concerning patients cannot be divulged for ethical reasons other than in the course of their work.

What is the time divide between MTU and UCC?
The programme for the BSc (Honours) in Biomedical Science is taught equally by MTU and UCC, so this means that the students will expect to spend some days in one institution or the other. The timetable is arranged to minimise travel between the two universities.

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Career Opportunities
Biomedical science prepares the student for a career in laboratory medicine and related areas in the health-care industry and biopharmaceutical industry. Biomedical science graduates work as medical scientists in hospitals, and in research, the biopharmaceutical and biotechnology industries, public health and sales and marketing of medical products.

• Medical scientist in Irish Hospitals (BSc (Hons) and Diploma required)
• Biopharmaceutical & biotechnology industries (BSc (Hons) only required)
• Public health (BSc (Hons) only required)
• Sales & marketing of medical products (BSc (Hons) only required)

First Year at a Glance
As well as learning the main core science subjects in first year, students will also be exposed to the following disciplines

• Clinical Biochemistry: study of the chemical profiles of body fluids in normal and diseased states
• Haematology: study of blood cells in the normal and diseased individual
• Histology/Histopathology: study of cells and cellular arrangement in normal and cancerous tissue
• Diagnostic Microbiology: study of microorganisms encountered in infectious diseases
• Transfusion Science: the science relating to transfusing fluid (i.e. blood) into a vein or artery
• Health Science: introduction to a selection of “hot topics” relating to health
Environmental Science & Sustainable Technology (Honours)
Eolaíocht Chomhshaol agus Teicneolaíocht Inbhuanaithe (Onóracha)

Application: CAO  
CAO Code: MT 878  
NFQ Level: 8

Award Title: Bachelor of Science (Honours) in Environmental Science & Sustainable Technology  
Duration: 4 Years (8 Semesters)  
Places: 20  
Location: MTU Bishopstown Campus, Cork

Overview
This honours degree offers a unique combination of scientific and instrumentation based modules to train graduates in the skills required to become environmental monitoring specialists, specifically in the areas of air and water quality analysis.

Most of the modules taught have a significant laboratory element and students can expect to spend 50% of their contact time working with modern laboratory instrumentation. The emphasis is on making scientific measurements and analysing the results, as well as calibrating and operating technical equipment. To assist in this, the students receive a comprehensive foundation in physics and chemistry together with specialist modules in electronics, statistics, instrumentation, environmental GIS, smart sensors and the internet of things. There is a continual green ethos throughout the course; the provision of green technical and managerial modules aim to stimulate graduates to become champions of sustainability. There are modules that deal with waste management, water and air quality, as well as green auditing to ensure that graduates are fully up-to-date with the legal, economic and technical aspects of environmental monitoring.

In addition to the scientific and technical modules, there are a number of modules designed to develop competencies in communication skills, report writing and presentation skills, and research methods along with an emphasis on teamwork.

In year 3, students are placed within an industry or research group for work placement. It may be possible for the work placement to be in an international location.

In the final year of the course, there is a major technical project in the area of environmental monitoring.

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Further Studies
Suitably qualified graduates are eligible to apply for a postgraduate degree by research at MTU at master (MSc) or doctoral (PhD) levels under the supervision of departmental principal investigators based at CAPP (www.cappa.ie), Mass Spectrometry Group, or elsewhere at MTU.

Question Time
What is the difference between this course and other environmental courses?
The mix of physical science, modern analytical instruments and green management is unique and quite different to traditional environmental science courses. There is a strong focus on lab based technical skills and the use of modern instrumentation to measure environmental parameters. Students learn how to operate and calibrate sophisticated computer-controlled equipment as well as how to critically analyse and validate their data.

How comfortable do I need to be with science subjects?
Physics and chemistry at Leaving Certificate level are helpful but not essential, as the key content in both subjects are covered in year one of the course.

What should my interests be?
As graduates of a STEM programme, a strong interest in technology and the environment, specifically the use of modern computer-controlled measuring instruments that contribute to the protection of the environment and enable the development of sustainable solutions for industries and society in general.

Where am I likely to work?
You could be working for the Environmental Protection Agency or local authorities ensuring environmental licence compliance for example by monitoring the quality of air in our cities and towns. Opportunities exist in industry in particular in the pharmachem, manufacturing and agrifood sectors where technical specialists are required to monitor a range of environmental parameters and present solutions where issues arise.

Career Opportunities
As graduates of a STEM programme with an emphasis on technical skills, employment opportunities are excellent. The main employment areas are water quality analysis, air emissions monitoring, waste reduction, environmental consulting and management, green auditing, carbon footprint reduction as well as related research & development. Graduates can expect to work in a variety of situations such as working in an environmental testing laboratory or in waste management in a modern pharmachem plant; they could be office based or out in the field collecting and analysing environmental samples.

- Air and water quality monitoring
- Environmental consultancy
- Wastewater and air emissions reduction
- Green auditing
- Data analytics

First Year at a Glance
- Environmental Instrumentation: measurement and calibration of sensors used for environmental monitoring
- Mathematics: developing the tools for analysing scientific data
- Chemical Principles
- Fundamental Physics
- Climate Change: introduction to issues contributing to climate change
- Green Team: introduction to sustainability and team work
- Creativity, Innovation and Teamwork: team building, independent working and communication skills development
Industrial Physics (Honours)
Físic Thionsclaíoch (Onóracha)

Application: CAO
CAO Code: CK 409
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Industrial Physics
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork, and University College Cork.

Overview
This honours degree course is offered jointly by MTU and UCC and can be applied for via the UCC CAO code CK 409.

Industrial Physics is a globally recognised discipline area with industrial physicists leading some of the most important scientific and technological developments of the past century, including the development of the transistor for computers, lasers for corrective eye surgery and LEDs for high brightness flat-screen TV and smart-phone displays. Industrial physicists are problem solvers, able to solve problems quickly and in a wide range of industrial settings, devising and using unconventional techniques. Advanced, high-precision manufacturing is the core of Ireland’s industrial output.

The degree combines fundamental physics with hands-on industrial training, targeting careers in some of the most exciting and innovative industries in Ireland and abroad. The first two years of the degree focus mainly on fundamental physics taught at UCC (www.ucc.ie/en/physics), while years three and four place an emphasis on industrial control technology and system interfacing using the specialised teaching laboratory facilities at MTU Bishopstown Campus, Cork.

Lectures/practical work
Lectures and practical sessions take place from 9.00am to 6.00pm, Monday to Friday. Usually students spend 18-20 hours/week in the classroom and similar time commitment in the laboratory. Lectures, tutorials and laboratory practical sessions take place on both the UCC and MTU Bishopstown campus. There is approximately a 75%/25% split in terms of time spent on either campus – for stage 1 and 2, approx. 75% of the time is spent on the UCC campus whereas for stages 3 and 4 it is approx. 75% of time on the MTU Bishopstown campus.

Further Studies
As a major Level 8 award, the degree in industrial physics qualifies the graduate for entry to many masters and doctorate programmes in applied physics and engineering, as well as conversion courses into other numerate disciplines such as actuarial studies. There are industrial PhD programmes that cater to graduates wishing to carry out their doctorate while remaining with their employer, which would be highly suitable.

Question Time
What topics are studied in this programme?
- Classical physics, quantum mechanics, special relativity, thermodynamics, electro- and magneto-statics, electromagnetism, computational physics, optics, experimental methods, condensed matter physics, lasers and photonics
- Chemistry fundamentals
- Textual programming language, VB, ladder logic programming, SCADA
- Signal processing, process analytical technology, process control
- Air quality monitoring, gas analysis instrumentation, water quality instrumentation

Why study industrial physics?
- The course provides an excellent grounding in the fundamentals of physics but also the tools to apply these immediately upon graduation.
- Work at the heart of Ireland’s large and growing advanced manufacturing sectors (BioPharmaceutical, micro/nano-electronics, data processing, materials science, etc)
- Joint degree blending particular strengths of two universities
- Long established extended placement scheme with potential employers
- High employer demand for graduates

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Career Opportunities
An honours degree in industrial physics can lead to rewarding roles in many sectors such as pharmaceutical and bio- pharmaceuticals; medical devices; food/drinks manufacturing, and consultancy.

- Biopharmaceutical engineering
- Advanced scientific instrumentation
- Advanced manufacturing
- Oil & gas/renewable energy

This degree is ideal for students who wish to gain deep insight into the physics of modern technologies, and who enjoy applying this knowledge in problem solving in real-world environments. With strong employer demand for qualified graduates, this ever-expanding field offers career paths for graduates who wish to use their skills in technical settings and equally those seeking a corporate management path.

First Year at a Glance
- Introduction to Modern Physics: an overview of physics underlying modern technologies such as electromagnetism, optics, mechanics, etc
- Mathematical Methods: fundamental mathematical concepts and skills required to understand and solve problems in the modern world
- Chemistry for Physicists and Mathematicians: the basic chemistry skills
- Introduction to Environmental Science: overview of fundamental concepts of environmental monitoring, sensors, pH, gas detection, etc
- Instrument Measurement: fundamentals of measurement accuracy, precision, instrument response, sensitivity, range, etc
- Industrial Automation: programmable logic controllers, automation software tools, CAD

Electives
- Programming in C
- Computer Applications with Visual Basic
- Programming in Python

Entry 2022
SCORE THE NECESSARY CAO POINTS AND MEET MINIMUM LEAVING CERTIFICATE REQUIREMENTS & SUBJECTS

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<tr>
<th>SUBJECTS</th>
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NOTE 1: H4 can be in Maths or Applied Maths. If the H4 is in Applied Maths, a H6 in Maths is also required.
NOTE 2: Irish is a requirement for this programme unless the applicant is exempt from Irish.
NOTE 3: A H4 must be obtained in a laboratory science subject (from biology, chemistry, physics, physics with chemistry, or agricultural science).
NB: Please note the H4 grade can also be used to satisfy the H5 requirements.

www.mtu.ie/CK409

129
Instrument Engineering (Honours)
Innealtóireacht Ionstraimíochta (Onóracha)

Application: CAO
CAO Code: MT 833
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Instrument Engineering
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
Instrument engineering is the multidisciplinary specialisation centred on the principles of operation and applications of the diverse instrumentation used to measure, control and automate processes and systems throughout industry and society. Within process industries such as pharmaceuticals, biotechnology, food, beverages and water, instrument engineering contributes significantly to quality, safety, productivity, and efficiency.

This multidisciplinary course provides a comprehensive foundation of physical science, mathematics, electronics, measurement technology and information technology on which a range of specialist instrument engineering modules are developed. There is a continual emphasis throughout the course on the design standards and best practice relevant to instrument engineering.

During the work placement in year 3, students will gain direct experience in the practice of instrument engineering within an industry, organisation or research group in Ireland or abroad.

In year 4 there is a major project where students will be able to design, develop and implement measurement and control systems. Students will also manage, evaluate and critically analyse complex instrumentation and process control installations.

Accreditation
This honours degree is recognised by the Institute of Physics. Graduates of recognised degrees qualify for associate membership upon graduation and may apply for full membership after appropriate work experience. The Institute of Physics provides routes for suitably qualified and experienced members to become Chartered Physicists and Chartered Engineers. Further details can be found on the Institute of Physics website. This degree is also currently in review for accreditation by the Institute of Measurement and Control.

Further Studies
MTU offers opportunities for suitably qualified graduates to proceed to postgraduate study with research teams based at MTU’s Centre for Advanced Photonics & Process Analysis, CAPPA (www.cappa.ie), the Tyndall National Institute (www.tyndall.ie), and elsewhere.

Question Time
Is this a science course or an engineering course?
While the qualification is that of a science degree (BSc), graduates find employment in a range of scientific and engineering roles. This is a multidisciplinary course with a mix of science and engineering modules. This broad base provides graduates with a skill set that provides a wide range of employment opportunities and the ability to adapt to rapidly changing technologies.

What level of mathematics is recommended?
Honours mathematics is not required, but as with all physical science and engineering courses numeracy is essential and you need to be comfortable with mathematics.

What personal skills are most suited to the course and subsequent careers?
Motivation, initiative, dependability, commitment, and analytical ability.

What should my interests be?
Computing: enabling students to use technology for instrumentation
Mathematics: developing the tools for instrument calibration and automation
Chemical Principles: physical sciences to the fundamentals of atomic theory, chemical bonding, the periodic table, physical states of matter, and stoichiometric calculations
Fundamental Physics: an introductory course comprising foundation physics topics relevant to all fields of science
Sensors and Systems: the components of measurement systems using a variety of sensors
Measurement and calibration of sensors used for industry
Creativity, Innovation and Teamwork: team building, independent working and communication skills development

Career Opportunities
Graduates typically work as instrument engineers, automation engineers or control engineers within chemical, pharmaceutical, biotechnology, oil/gas, food, beverage and water treatment companies that use instrumentation to improve productivity, safety, reliability, quality, etc.

Significant employment opportunities exist for graduates in design, manufacture and supply instrumentation to the above industries. Opportunities are also available within the engineering consultancies and systems integrators who provide such industries with turn-key solutions to their manufacturing challenges.

First Year at a Glance
• Computing: enabling students to use technology for instrumentation
• Mathematics: developing the tools for instrument calibration and automation
• Chemical Principles: physical sciences to the fundamentals of atomic theory, chemical bonding, the periodic table, physical states of matter, and stoichiometric calculations
• Fundamental Physics: an introductory course comprising foundation physics topics relevant to all fields of science
• Sensors and Systems: the components of measurement systems using a variety of sensors
• Measurement and calibration of sensors used for industry
• Creativity, Innovation and Teamwork: team building, independent working and communication skills development

www.mtu.ie/MT833
Overview
This course is designed to meet the need for scientists with technical competency in the design, development, production, analysis and upgrading of products that are involved in the maintenance, restoration and promotion of human health and wellbeing. Graduates will be able to apply their understanding of human nutrition and its role in health and disease to various sectors of the food and health industry and identify and address nutrition-related problems in individuals and populations.

First and second year modules provide the student with a strong foundation in biological science modules such as microbiology, biochemistry, biotechnology, as well as nutrition modules including fundamentals of human nutrition, nutritional analysis methodologies and food and health science.

Third and fourth year cover more specialised topics such as nutrition communication, nutritional epidemiology, clinical nutrition, functional foods, food regulation and innovation and food and healthcare chemistry, toxicology and microbiology. The lectures are supplemented with relevant case studies, projects, assignments and there is a strong focus on gaining in depth practical experience in the laboratory.

The work placement module is an integral and essential part of the course programme in which the student is introduced to a structured work environment. The student develops an understanding of the organisation, practices and procedures current in the organisation and the area of activity in which it is involved.

Further Studies
This course is an excellent platform for further studies, both in terms of short add-on courses, and more structured postgraduate degrees such as Master of Science and PhD programmes. Graduates have many opportunities to engage in continued education and training (e.g. dietetics).

Question Time
Can I become a dietician from MT 876?
Completion of the BSc (Honours) in Nutrition and Health Science does not qualify the graduate to practice as a dietician. However, graduates of the course can undertake further studies in other third-level institutes to pursue a career as a dietician.

What personal skills are most suited to the course and subsequent careers?
Individuals pursuing a career in nutrition and health science should be dedicated, logical, analytically minded, good with people, a team player, have good attention to detail, and excellent organisational skills.

Is this programme accredited?
Yes, the BSc (Honours) in Nutrition and Health Science is accredited by the Association for Nutrition (AfN) which holds the UK Voluntary Register of Nutritionists (UKVRN), a register of competent, qualified, nutrition professionals who meet AfN standards for scientific, evidence-based nutrition. MTU’s Nutrition and Health Science programme is now one of two AfN accredited programmes offered in the Republic of Ireland and joins the suite of 56 AfN accredited undergraduate programmes across the UK and Ireland.

Career Opportunities
A graduate of this course will be employable in food, nutrition, healthcare and animal feed industries, in sectors including research, new product development, production, nutritional analysis, quality assurance, food/nutrition communication and marketing.

• Research scientist in food and related healthcare industries
• New product development, production, and marketing in food and related healthcare industries
• Food safety and food regulation in food industry and governmental agencies
• Nutrition communication in food information organisations
• Quality assurance

First Year at a Glance
As well as learning the main core science subjects in first year, students will also be exposed to the following

• Studying the different groups of food and healthcare products produced in industry
• Evaluating the role of food in health
• Describing the basic principles of sports and exercise nutrition
• Performing experimental laboratory procedures on different food and healthcare products

Contact Information
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Pharmaceutical Biotechnology (Honours)
Biteicneolaíocht Chógaisióchta (Onóracha)

Application: CAO
CAO Code: MT 873
NFO Level: 8
Award Title: Bachelor of Science (Honours) in Pharmaceutical Biotechnology
Duration: 4 Years (8 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

Overview
Many modern medicines such as vaccines, hormones, and anticancer drugs are now made using biological cells. Insulin for example, which is used by diabetic patients worldwide, is made using living cells as opposed to more traditional chemical synthesis based methods. This means there is a strong demand for biologists who can design innovative new medicines using biological approaches, and who have the skills to work with cells and the bio-active compounds they produce. This biotechnology course will teach students how to grow and engineer biological cells in order to make safe and effective medicines using the most up-to-date information and technologies available.

The course content is specifically designed to meet the needs of the many relevant employers both nationally and internationally, and contains topical, cutting edge, industry specific material. The lectures are supplemented with in-depth analysis of relevant case studies, projects, assignments, interactive videos, web tools, and site visits. A substantial portion of the contact time in the first three years is spent in the laboratory gaining practical experience.

Work placement is a mandatory part of this course. In year 3, students will spend a minimum of 16 weeks in a local, national or internationally approved work environment. With a substantial database of national and international industry partners at our disposal, students have an opportunity to experience the reality of a work-based environment as part of their education, gaining access to some of the leading scientific companies in the world.

Further Studies
This course is an excellent platform for further studies, both in terms of short add-on courses, and more structured postgraduate degrees such as Master of Science and PhD programmes.

Question Time
Does this course qualify me as a Pharmacist?
No. It trains you to work in the biotechnology industry where modern bio-medicines are discovered and made such as vaccines, hormones, antibodies, and therapeutic enzymes.

What personal skills are most suited to the course and subsequent careers?
Good organisational skills, technical ability, team-working and ability to work to deadlines.

Is the biotechnology industry secure?
In general, the biotechnology industry is moving towards a more “bio-based” approach to pharmaceutical manufacture. Consequently, there is a greater need to produce highly trained graduates who possess pharmaceutical biotechnology related skills.

Each of the world’s top 10 biopharmachem companies has a presence in Ireland. The biopharmachem sector maintained its position as the largest exporter of goods from Ireland in 2017 and the sector directly employs approximately 30,000 people. Currently, the biopharmachem industry in Ireland is vibrant and expanding and over the past 10 years, close to €10 billion has been invested in manufacturing and research sites around the country.

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Career Opportunities
This course is very broad and is specifically designed to train students in all aspects of modern biotechnology. Graduates from this course are qualified to work in a number of areas within the biotechnology industry with many attaining employment immediately after graduating.

• Quality control analyst
• Microbiologist
• Bio-assay specialist
• Technical/process specialist
• Research and development

First Year at a Glance
As well as learning the main core science subjects in first year, students will also be exposed to the following:

• Growing biological cells: what makes biological cells healthy and how are they grown in a laboratory
• How do cells work: what structures are needed by cells to stay alive
• Working with DNA: what is DNA and how can we use it in biotechnology
• Making biological medicines: learn the basics of how cells can be used to make modern medicines
• Laboratory studies: use the latest equipment and technologies in a modern laboratory facility
• Experimental analysis: carry out your own experiments in a laboratory setting and learn how to create and analyse your own data

www.mtu.ie/MT873
Pharmaceutical Science (Honours)
Eolaíocht Chógaisíochta (Onóracha)

Application: CAO
CAO Code: MT 872
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Pharmaceutical Science
(Degree award option: Biopharmaceutics)
Duration: 4 Years (8 Semesters)
Places: 16
Location: MTU Kerry South Campus

Overview
Recent advances in pharmaceutical science have focused on the rapid development of quality medicinal products that are safer, more effective and increasingly convenient for the patient. This has led to a significant demand for scientists with knowledge and skills related to the biopharmaceutical area. Pharmaceuticals are drugs made from a series of chemical reactions and biopharmaceuticals are medicines made using living organisms such as bacteria, yeast and mammalian cells. The pharmaceutical and biopharmaceutical industries comprise Ireland’s largest manufacturing sector and need highly trained graduates.

This degree is designed to develop your practical skills and competence to work as a laboratory scientist. The focus of the level 8 degree is on the analysis, design, production and regulatory compliance of pharmaceutical products. First year delivers core science modules and fundamental practical skills training and subsequent years build on these areas. Students also cover the relevant key areas of chemistry and biology, such as Applied Pharmaceutical Chemistry, Biochemistry, Pharmaceutical Microbiology, Molecular Biology and Cell Culture.

Final year level 8 students develop more in-depth knowledge and skills by studying specialised modules such as Advanced Pharmaceutical Techniques, Drug Synthesis and Design and Bioprocessing, by carrying out a research project and also by completing a 12-week work placement.

Our graduates have an acknowledged reputation as excellent laboratory scientists and researchers, well prepared for the challenges of the workplace with a range of transferrable skills into other related sectors.

Our graduates have found work in a range of local companies, including Aenova, Astellas, Kerry Group, Kerry County Council, Southern Scientific and Metpro Ltd. Many of our graduates have gone further afield to take up positions in world-leading pharmaceutical companies including Pfizer, Johnson and Johnson, Regeneron, Lilly, Boston Scientific and Allergan.

Further Studies
Suitably qualified Level 8 Honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Question Time
Would I be qualified to teach at second level if I do this course?
The modules covered meet The Teaching Council subject requirements to teach chemistry to Leaving Certificate level. Students who opt to take an extra 5 credit module in physics will also meet the Teaching Council subject requirement to teach science up to Junior Certificate level. Graduates will also be required to complete a two-year Professional Master of Education (PME).

Do I need to have studied a science subject at Leaving Certificate level?
No, but an active interest in science and at least one Leaving Certificate science subject would be useful. First year modules focus on the key areas relevant to the programme of study and assume no previous knowledge of the subject at Leaving Certificate level.

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Career Opportunities
Graduates of this course have taken up employment opportunities in both laboratory and non-laboratory settings leading to supervisory and management roles across a wide range of sectors, including

- Pharmaceutical and biopharmaceutical
- Research and development
- Medical devices and healthcare
- Food and cosmetics
- Environmental and health and safety
- Consultancy, technical sales and marketing
- Training and education

First Year at a Glance

- Biology: basic biological concepts, processes, systems and structures
- Chemistry: fundamental chemical concepts and terminology and their application
- Essential Scientific Maths: appropriate numerical, algebraic and graphical skills and their applications
- Scientific Communication and Computer Applications: commonly used computer applications in laboratory analysis and skills for interpersonal communication including oral and written presentations
- Good Laboratory Practice: laboratory design and safety, general laboratory techniques and analytical measurements
- Overview of the Science Industry: review of the science industry in Ireland focussing on the pharma/biopharma sector
- Physics Concepts: basic physics principles, concepts, ideas and terminologies and their application
- Mathematics and Statistics for Science: analytical and numerical approach to problem solving; statistics to describe and analyse scientific data
Pharmaceutical Science
Eolaíocht Chógaisíóchta

Application: CAO
CAO Code: MT 772
NFQ Level: 7
Award Title: Bachelor of Science in Pharmaceutical Science
(Degree award option: Biopharmaceutics)
Duration: 3 Years (6 Semesters)
Places: 16
Location: MTU Kerry South Campus

Overview
Recent advances in pharmaceutical science have focused on the rapid development of quality medicinal products that are safer, more effective and increasingly convenient for the patient. This has led to a significant demand for scientists with knowledge and skills related to the biopharmaceutical area. Pharmaceuticals are drugs made from a series of chemical reactions and biopharmaceuticals are medicines made using living organisms such as bacteria, yeast and mammalian cells. The pharmaceutical and biopharmaceutical industries comprise Ireland’s largest manufacturing sector and need highly trained graduates.

This degree is designed to develop your skill and competence to work as a laboratory analyst. The primary focus of the degree is on pharmaceutical analysis and it is very practically based, giving our students the key laboratory skills and the hands-on training industry requires. First year delivers core science modules and fundamental practical skills training and subsequent years build on these areas. In addition, students cover relevant key areas of chemistry and biology, such as Applied Pharmaceutical Chemistry, Biochemistry, Pharmaceutical Microbiology, Molecular Biology and Cell Culture. Students in year 3 also complete an analytical project on a pharmaceutical product using the skills and techniques developed during the course.

Our graduates have found work in a range of local companies, including Aenova, Astellas, Kerry Group, Kerry County Council, Southern Scientific and Metpro Ltd. Many of our graduates have gone further afield to take up positions in world-leading pharmaceutical companies including Pfizer, Janssen, Regeneron, Lilly, Gilead, Oriflame, Chanelle, and GlaxoSmithKline.

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year four of the Level 8 BSc (Honours) in Pharmaceutical Science or other related courses.

Question Time
Do I need to have studied any science subjects to Leaving Certificate level?
No, but an active interest in science and at least one Leaving Certificate science subject would be useful. First year modules focus on the key areas relevant to the programme of study and assume no previous knowledge of the subject at Leaving Certificate level.

Our graduates who are well prepared for the challenges of the workplace have an acknowledged reputation as excellent laboratory analysts. Duties include setting up and running instrumentation, performing quality analysis of pharmaceutical products in line with approved procedures, recording and reporting results.

Career Opportunities
Graduates take up employment opportunities in laboratory settings across a wide range of sectors carrying out roles in the areas of

- Product analysis and testing
- Quality control and quality assurance
- Calibration of instrumentation and validation of procedures
- Manufacturing and bioprocessing
- Environmental monitoring
- Technical support

First Year at a Glance

- Biology: basic biological concepts, processes, systems and structures
- Chemistry: fundamental chemical concepts and terminology and their application
- Essential Scientific Maths: appropriate numerical, algebraic and graphical skills and their applications
- Scientific Communication and Computer Applications: commonly used computer applications in laboratory analysis and skills for interpersonal communication including oral and written presentations
- Good Laboratory Practice: laboratory design and safety, general laboratory techniques and analytical measurements
- Overview of the Science Industry: review of the science industry in Ireland focussing on the pharma/biopharma sector
- Physics Concepts: basic physics principles, concepts, ideas and terminologies and their application
- Mathematics and Statistics for Science: analytical and numerical approach to problem solving; statistics to describe and analyse scientific data

Contact Information
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www.mtu.ie/MT772
Pharmacy Technician
Teicneoir Cógaisíochta

Application: CAO
CAO Code: MT 682
NFQ Level: 6
Award Title: Higher Certificate in Science - Pharmacy Technician
Duration: 2 Years (4 Semesters)
Places: 32
Location: MTU Kerry South Campus

Overview
A pharmacy technician plays a vital role in the operation of a pharmacy or pharmacy department. Pharmacy technicians are key healthcare workers. They aid the pharmacist with the dispensing and processing prescriptions, and the preparation, checking and storage of medicines. Pharmacy technicians can secure employment in retail pharmacies and in pharmacy departments in private and public hospitals. This NFQ level six, two-year course combines academic knowledge and real-world training in a pharmacy environment with work experience modules making up two semesters of the course.

The course prepares students for a profession as a pharmacy technician and is delivered by leading scientists and pharmacists. It develops the practical, professional and academic skills required to assist in the various activities of the pharmacy. These skills include knowledge of prescription and non-prescription medicines and how they are formulated and used to treat illnesses.

Central to the philosophy of this course is that graduates will attain a sound base in physiology and pharmacology. The course includes two pharmacy placements, which can be carried out either in a hospital pharmacy department or in a community pharmacy. This allows the opportunity for students to apply their theoretical knowledge and practical skills as a student in a real-world environment. Formal work placement makes up 50% of this course.

Further Studies
Suitably qualified Level 6 graduates will be eligible to progress to the BSc in Pharmacy Management and Practice, a one-year add-on programme leading to a degree at Level 7.

Question Time
Can I become a pharmacist if I do this course?
This Higher Certificate course will qualify you to work as a pharmacy technician not a pharmacist. However, we have had students who have successfully applied to universities in the UK/Northern Ireland to become pharmacists where their Certificate in Pharmacy Technician has been key in gaining entry to the course.

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Career Opportunities
Pharmacy technicians secure employment in independent pharmacies and private and public hospital pharmacy departments. The one-year-add-on Level 7 Pharmacy Management and Practice gives pharmacy technicians the opportunity for career progression into pharmacy management or progression to a senior pharmacy technician position in a hospital pharmacy department.

First Year at a Glance
• Over the Counter Medicines: knowledge of over-the-counter medicines and how to treat common ailments that may present in a pharmacy
• Human Physiology: explains the structure of the human body - how physiological systems contribute to overall body function, and the relationships between basic physiology, exercise physiology and lifelong health
• Regulations and Dispensing: gives students the knowledge, skills and competencies required to work in a dispensary under the supervision of a pharmacist and outlines relevant legislation related to pharmacy
• Introductory Microbiology for Pharmacy Technicians: introduction to the diversity of microorganisms in the environment particularly those responsible for disease and methods of their control; the importance of aseptic techniques in preparation and production of medicines
• Pharmacy Administration and Personal Development: a basic insight into the role of a pharmacy technician to ensure that the student is able to work independently and as part of a team in a supervised work place environment
• Pharmacy Calculations: provides a thorough knowledge of the mathematics required for the successful working out of dosage calculation problems encountered in a pharmacy or pharmacy department.

www.mtu.ie/MT682
Physical Sciences (Honours) (Common Entry)
Eolaíochtaí Bitheolaíocha (Onórácha) (Iontrál Chomónta)

Application: CAO
CAO Code: MT 870
NFQ Level: 8

Award Title: Dependent on chosen specialisation
• Bachelor of Science (Honours) in Instrument Engineering
• Bachelor of Science (Honours) in Environmental Science and Sustainable Technology
• Bachelor of Science (Honours) in Analytical Chemistry and Quality Assurance

Duration: 4 years (8 semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
The Physical Sciences (Common Entry) course is designed for applicants who wish to enter a physical science course in MTU but are undecided about or wish to postpone selecting a designated chemistry or physics qualification until after they have had an opportunity to experience both disciplines.

Common Semester 1: The common semester 1 programme includes modules in Physics, Chemistry, Biology, Mathematics, and Computing so that students will have completed an introduction to general science by the end of semester 1.

At the end of semester 1, students choose the chemistry or physics degree course that they wish to pursue in semester 2.

Students on the Level 8 Physical Sciences Common Entry Programme MT 870 can apply to progress to one of the three Level 8 science courses:
• MT 833 BSc (Honours) in Instrument Engineering
• MT 878 BSc (Honours) in Environmental Science and Sustainable Technology
• MT 874 BSc (Honours) in Analytical Chemistry with Quality Assurance

Chemistry and physics are physical sciences and MTU delivers programmes focusing on the applied, industry-relevant aspects of these subjects. Science refers to a system of acquiring knowledge. This system uses observation and experimentation to describe and explain natural phenomena. Science is an excellent career choice for those interested in understanding how the chemicals, foods and other products that we encounter in everyday life are designed and produced. From cures for life threatening illnesses, to environmental protection, to the design of new foods and space science, careers in science are varied and interesting. The common entry mode to physical sciences offers students the opportunity to study a broad introduction to various science modules before deciding on their preferred stream in semester 2 of year 1.

Question Time
What are the advantages of taking the Physical Sciences (Common Entry) route? Students have an opportunity to take introductory modules in both chemistry and physics (in addition to other areas of general science) before choosing the discipline they wish to follow.

Do I need to have studied at least one of the science subjects at Leaving Certificate to apply for these courses?
No – the fundamentals of the three Leaving Certificate science subjects are delivered in Semester 1.

What is the difference between choosing Physical Sciences (Common Entry) at Level 8 to Physical Sciences (Common Entry) at Level 7?
Students commencing on the Level 7 route will have completed their ordinary BSc degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

First Semester at a Glance
• Biology: study of fundamental building blocks of life
• Chemical Principles: study of general chemical Interactions
• Physics: study of fundamental basis of energy, light and heat
• Laboratory Skills: understanding the basis for good laboratory practice in a chemistry laboratory
• Mathematics: fundamental mathematical concepts and skills required to understand and solve problems in the modern world
• Instrument Measurement: introduces the principles of measurement using a range of instruments and includes the theory and principles of operation of instrumentation pertaining to process and other industries
• Creativity, Innovation and Teamwork: Team building, independent working and communication skills development

Contact Information
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Progression from Physical Sciences (Common Entry)

MT 870 Level 8

MT 870 Level 8

BSc (Honours) in Instrument Engineering
BSc (Honours) in Environmental Science and Sustainable Technology
BSc (Honours) in Analytical Chemistry with Quality Assurance

www.mtu.ie/MT870
Physical Sciences (Common Entry)
Eolaíochtaí Bitheolaíocha (Iontráil Chomónta)

Application: CAO
CAO Code: MT 770
NFQ Level: 7
Award Title: Dependent on chosen specialisation
• Bachelor of Science in Applied Physics and Instrumentation
• Bachelor of Science in Analytical & Pharmaceutical Chemistry
Duration: 3 years (6 semesters)
Places: 20
Location: MTU Bishopstown Campus, Cork

Overview
The Physical Sciences (Common Entry) courses are designed for applicants who wish to enter a physical science course in MTU but are undecided about or wish to postpone selecting a designated chemistry or physics qualification until after they have had an opportunity to experience both disciplines.

Common Semester 1: The common semester 1 programme includes modules in Physics, Chemistry, Biology, Mathematics, and Computing so that students will have completed an introduction to general science by the end of semester 1.

At the end of semester 1, students choose the chemistry or physics degree course that they wish to pursue in semester 2.

Students on the Level 7 Physical Sciences Common Entry Programme MT 770 can apply to progress to one of two Level 7 science courses:
• MT 782 BSc in Applied Physics and Instrumentation
• MT 774 BSc in Analytical & Pharmaceutical Chemistry

Chemistry and physics are physical sciences and MTU delivers programmes focusing on the applied, industry-relevant aspects of these subjects. Science refers to a system of acquiring knowledge. This system uses observation and experimentation to describe and explain natural phenomena. Science is an excellent career choice for those interested in understanding how the chemicals, foods and other products that we encounter in everyday life are designed and produced. From cures for life threatening illnesses, to environmental protection, to the design of new foods and space science, careers in science are varied and interesting. The common entry mode to physical sciences offers students the opportunity to study a broad introduction to various science modules before deciding on their preferred stream in semester 2 of year 1.

Question Time
What are the advantages of taking the Physical Sciences (Common Entry) route? Students have an opportunity to take introductory modules in both Chemistry and Physics (in addition to other areas of general science) before choosing the discipline they wish to follow.

Do I need to have studied at least one of the science subjects at Leaving Certificate to apply for these courses? No – the fundamentals of Biology, Chemistry, and Physics Leaving Certificate science subjects are delivered in semester 1.

What is the difference between choosing Physical Sciences (Common Entry) at Level 8 to Physical Sciences (Common Entry) at Level 7? Students commencing on the Level 7 route will have completed their ordinary BSc degree in 3 years, while those who choose the Level 8 route will take 4 years to complete their honours BSc degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

Contact Information
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First Semester at a Glance
• Biology: study of fundamental building blocks of life
• Chemical Principles: study of general chemical Interactions
• Physics: study of fundamental basis of energy, light and Heat
• Laboratory Skills: understanding the basis for good laboratory practice in a chemistry laboratory
• Mathematics: fundamental mathematical concepts and skills required to understand and solve problems in the modern world
• Instrument Measurement: introduces the principles of measurement using a range of instruments and includes the theory and principles of operation of instrumentation pertaining to process and other industries
• Creativity, Innovation and Teamwork: team building, independent working and communication skills development

Semester 2
• Semester 2 modules are determined by the designated degree programme selected following completion of Semester 1

Progression from Physical Sciences (Common Entry)

MT 770 Level 7
• BSc in Applied Physics and Instrumentation
• BSc in Analytical and Pharmaceutical Chemistry

SCORE THE NECESSARY CAO POINTS AND MEET MINIMUM LEAVING CERTIFICATE REQUIREMENTS

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>SUBJECTS</th>
<th>MATHS</th>
<th>ENGLISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>O6/H7</td>
<td>0</td>
<td>06/H7</td>
<td>06/H7</td>
</tr>
</tbody>
</table>

SUBJECTS
5
0
06/H7
06/H7

www.mtu.ie/MT770
Veterinary Bioscience (Honours)
Bitheolaíocht Tréidliachta (Onórácha)

Application: CAO
CAO Code: MT 881
NFO Level: 8
Award Title: Bachelor of Science (Honours) in Veterinary Bioscience
Duration: 4 Years (8 Semesters)
Places: 16
Location: MTU Kerry South Campus

Overview
Our biological science degree in Veterinary Bioscience has a major focus on animal health, disease and diagnostics. The veterinary biosciences discipline is experiencing significant growth, both nationally and internationally, due to increased demand for diagnostics to underpin animal health and disease management.

The research-led curriculum will provide you with an excellent understanding of the key elements of biology, health and disease in both production animals (cattle, sheep, pigs and poultry) and companion animals (dogs, cats and horses), and the tools to provide diagnostics strategies for the prevention, recognition and control of animal diseases. The degree is delivered by leading life-scientists and practicing veterinarians, who will guide you through your learning, from developing a practical understanding of animals and how they function, to veterinary pharmaceutical, advanced laboratory diagnostic and research skills in animal health.

The programme’s emphasis on animal health and veterinary diagnostics is supported by practical, hands-on experience and interaction with animals throughout, a dedicated work placement programme in year three, and an animal health research project in the final year of your studies.

Government departments and private laboratories require veterinary scientists to develop and operate laboratory diagnostics. Biopharmaceutical companies require such graduates to research and develop new biologicals to prevent and treat disease. The food industry requires veterinary scientists to safeguard the safety of food and the welfare of animals. Farmers, feed production operators and reproductive specialists require our graduates for herd health programmes, nutrition experts and reproductive analysis, respectively. Additionally, the advancement of entrepreneurial skills within the programme teaches the knowledge and creativity for business development.

Further Studies
Suitably qualified Level 8 Honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level. Graduates who wish to enter graduate veterinary medicine will be facilitated by an overlap in content between this programme and a veterinary medicine curriculum.

Question Time
Can I apply to graduate entry veterinary courses after completing my Veterinary Bioscience degree? Yes. We currently have affiliation with the University of Veterinary Medicine in Košice, Slovakia. Suitably qualified graduates may also apply for entry to any other graduate entry veterinary medicine programme.

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First Year at a Glance
In your first year, you’ll study topics that are fundamental to veterinary biosciences:
• Animal and Plant Biology: basic biological concepts, processes, systems and structures
• Animal Behaviour and Welfare: practical knowledge of normal patterns of behaviour as well as developing concepts and theories relating to animal welfare, veterinary ethics and applied welfare issues in common farm and companion animal species
• Animal Production Systems: develop principles on the major systems of animal production. The practical element of the module teaches skills to approach, handle, restrain and conduct a health check on animals
• Veterinary Anatomy: two modules will develop a detailed understanding of the anatomy of animals, relating anatomical structures to clinical and biological problems
• Chemistry: chemical concepts and terminology essential for building a sound foundation for understanding and learning chemistry
• Essential Scientific Maths: ensures that students will have appropriate numerical, algebraic and graphical skills and be able to apply these skills successfully
• Physics Concepts: provides knowledge of basic physics principles, concepts, ideas and terminologies and enable the student to apply to various physical phenomena
• Mathematics and Statistics for Science: provides students with a knowledge of mathematics and statistics to describe and analyse scientific data

www.mtu.ie/MT881
Wildlife Biology (Honours)
Bitheolaíocht Fiadhúla (Onóracha)

Application: CAO
CAO Code: MT 880
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Wildlife Biology
Duration: 4 Years (8 Semesters)
Places: 16
Location: MTU Kerry South Campus

Overview
Wildlife Biology is the study of the natural environment, the living things in it, and their interactions. This MTU programme, unique in Ireland, prepares you for a variety of roles (lab, field and desk-based) in research, biodiversity, conservation and land use management. Based in the stunning and wildlife rich county of Kerry, the course attracts students from across Ireland, Europe and beyond.

The first two years are common with MT 680 Higher Certificate in Biological and Environmental Studies. Zoology, Botany, Ecology and Microbiology (in year 2) offer a wide and deep understanding of living things. Outdoor education modules provide skills to work and navigate safely in wild and remote environments, and include a Certificate in Remote Emergency Care. A module on Geographical Information Systems provides experience in the new industry standard for management of spatial data.

Habitat Studies, Species Identification and a Wildlife Expedition in year 3 provide practical and applied skills. Research modules (including group Ecology project and individual final year thesis) facilitate development of skills in desk and field data collation, analysis and presentation. Modules in Environmental Protection, Biodiversity, Conservation and Habitat Conservation Management prepare for a career supporting the sustainable transition of society and economy to battle the biodiversity and climate crises.

With weekly fieldtrips, in a variety of aquatic, upland and remote habitats in Co. Kerry and beyond, you need to be reasonably fit, and prepared for all weathers and rough terrain.

Further Studies
Suitably qualified Level 8 honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Question Time
Would I be qualified to teach at second level if I do this course?
The modules covered meet the Teaching Council subject requirements to teach biology to Leaving Certificate level. Students who opt to take an optional extra 5 credit module (online) in physics will also meet the Teaching Council subject requirement to teach science up to Junior Certificate level. Graduates will also be required to complete a two-year Professional Master of Education (PME).

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Career Opportunities
Our graduates have taken employment with a range of employers such as the Forest Service, the National Parks and Wildlife Service, Fota Wildlife Park and non-governmental organisations (NGOs). Others are employed with Inland Fisheries Ireland, the Marine Institute and as part of agri-environment schemes and other large-scale conservation projects. Many go on to complete master degrees and/or PhDs. Some graduates have undertaken conservation work internationally (UK, Canada, Central America).

First Year at a Glance
• Biology: an overview of the kingdom of life and the processes that makes living things work
• Chemistry: a thorough introduction to the elements, molecules and reactions that affect life – both within organisms and in the environment
• Scientific Communication and Computer Applications: develops skills for interpersonal and scientific communication
• Irish Wildlife: overview of the fauna of Ireland with reference to life histories, habitat and conservation status
• Outdoor Skills: foundation levels of personal skills and competencies in a range of outdoor environments
• Physics Concepts: an introduction to physics as a basis for understanding mechanics and energy in the living world
• Introduction to Environmental Science: global environmental challenges, environmental degradation and effects on human health
• Field Biology and Earth Science: practical field biology and introductory geology and physical geography
• Mathematics and Statistics for Science: basic mathematical methods and introductory statistics to describe and analyse data

www.mtu.ie/MT880
Nursing and Health Care
## Succeeding Together

### Symbol Key:

- **Work Placement**
- **Progression to the next NFQ level**
- **Garda Vetting**
- **Medical Required**
- **Exit Award**

<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 925</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Counselling with Addiction</td>
<td>142</td>
</tr>
<tr>
<td>MT 926</td>
<td>8</td>
<td>Bachelor of Science (Honours) in General Nursing</td>
<td>143</td>
</tr>
<tr>
<td>MT 927</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Mental Health Nursing</td>
<td>144</td>
</tr>
</tbody>
</table>
Counselling with Addiction (Honours)
Comhhairleoiriacht le hAndúil (Onóracha)

Restricted programme – mature applicants only

Application: CAO
CAO Code: MT 925
NFO Level: 8

Award Title: Bachelor of Arts (Honours) in Counselling with Addiction
Duration: 4 Years (8 Semesters)
Places: 20
Location: Galilee House of Studies, Athy, Co. Kildare

Additional Entry Requirements
Vetting by an Garda Síochána is a mandatory requirement for this programme.

All applicants will be interviewed as part of the application process.

All applicants will be required to provide medical certification and references.

Applicants who disclose a personal recovery process are required to be two years post-treatment before applying for this programme.

Overview
Counselling involves talking and listening to clients about their emotions, relationships, thought processes, patterns of behaviour or life events such as bereavement, addiction, divorce, health issues or job concerns. Counsellors play a crucial role in improving the health and wellbeing of people in society.

This is a collaborative programme between MTU and Cuan Mhuire/Galilee House of Studies. Cuan Mhuire is Ireland’s largest multisite provider of residential deaddiction and treatment for those suffering from addiction’ (www.cuanmhuire.ie). Galilee House of Studies is an established provider of a higher education undergraduate diploma programme in counselling located in Athy, Co. Kildare.

The course will be delivered by a team of experienced practising addiction counsellors/psychotherapists and third level academic staff in Galilee House of Studies, Athy, Co. Kildare (year 1, 2 and 3), with practice placement undertaken in Cuan Mhuire’s residential centres or other relevant clinical sites across Ireland in year 4. Students will have the opportunity to seek their own practice placement sites, however MTU/ Cuan Mhuire/Galilee House of Studies will ultimately be responsible for ensuring that all students secure an appropriate practice placement site.

The purpose of this programme is to provide systematic training in counselling theory and practice at a level that prepares participants to counsel in a variety of settings and to use various counselling approaches. Counselling and psychotherapy are growing and evolving professions in Ireland and internationally. Also, addiction in recent years is becoming an increasing problem in Ireland, with the Government pledging to increase funding in the area of mental health initiatives as part of the national counselling service.

Accreditation
On completion of the programme, graduates will be accredited with the Irish Association for Counselling and Psychotherapy (IACP), Addiction Counsellors of Ireland (ACI) and the National Association of Pastoral Counselling and Psychotherapy (NAPCP).

Further Studies
Suitably qualified level 8 honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

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Career Opportunities
There are significant employment opportunities in the various specialised areas, such as addiction, victim support, marriage guidance, bereavement, substance abuse, homelessness, youth and community. Many counsellors work in private practice, private or public residential and non-residential youth and adult centres, schools, colleges, hospitals etc.

First Year at a Glance
• Human Development – Content and Theory: personal development of the student in three significant areas of growth for a prospective counsellor
• Personal Development – Process and Care: to provide a safe context in which students will be encouraged to explore and reflect on the links between personal and professional development
• Counselling Skills: provides a set of baseline counselling skills, which are fundamental to the therapeutic relationship
• Theoretical Perspectives in Counselling and Psychotherapy: equips students with a greater knowledge and understanding of historically recognised and contemporary counselling and psychotherapeutic theories.
• Person Centred Approach to Counselling and Psychotherapy: equips students with an experientially grounded understanding of the person-centred approach to counselling and psychotherapy
• Bereavement, Loss and Grief: develops knowledge, skills and attitudes on managing loss, bereavement and grief
• Addiction Studies: provides students with the knowledge-base on which to develop their therapeutic understanding of theoretical and clinical considerations concerning substance use

Entry 2022

MINIMUM LEAVING CERTIFICATE REQUIREMENTS

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>MATHS</th>
<th>ENGLISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>O6/H7</td>
<td>H5</td>
<td>O6/H7</td>
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Applicants must
• Be over 23 years of age on 1st January of the year of entry.
• Meet minimum leaving certificate requirements above.
• Hold a full FET/ QQI (level 5) award with a minimum of 3 distinctions.
• Have successfully completed the University’s mature student assessment.

PLEASE NOTE: students will be required to pay for personal supervision and counselling fees over the duration of the programme.
General Nursing (Honours)
Altranas Ginearálta (Onórracha)

Application: CAO
CAO Code: MT 926
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in General Nursing
Duration: 4 Years (8 Semesters)
Places: 60
Location: MTU Kerry North Campus

Overview
This programme gives you the skills to provide nursing care in a wide variety of clinical settings. It emphasises the importance of working with other professions and planning individualised nursing care in partnership with patients. As with all nurse education programmes, our focus is on caring, communication and understanding the patient’s experience of health and illness.

Over the course of the four-year programme, you develop a range of skills, including professional/ethical practice, holistic approaches to care and the integration of knowledge; interpersonal relationships; organisation and management of care; and personal and professional development. Nursing offers exciting opportunities to develop valuable specialist knowledge, and skills that are in demand both nationally and internationally.

This course consists of 76 weeks of classroom-based theory and practical learning, interspersed with 81 weeks of clinical placements. Nursing students complete their programme with a 36-week continuous internship rostered placement. Clinical practice can take place locally including counties Kerry and Cork, as well as internationally and encompasses a very broad range of clinical settings, including general medical and surgical nursing, accident and emergency, outpatients, operating theatre, and nursing children – among others.

Our nursing programmes are taught in the purpose-built SOLAS building at the MTU Kerry North Campus. This state-of-the-art facility has technology enhanced classrooms, lecture halls, practical skills laboratories, and computer suites. Our partnership with the HSE and Bon Secours Hospital in Tralee offers students a wide range of exciting clinical placement facilities. Throughout this programme, you will get great support from the University and from clinical staff, both in the classroom and on placement.

Further Studies
Suitably qualified Level 8 Honours graduates are eligible to progress to
• Master of Science in Nursing
• Master of Science in Professional Nursing
• Master of Science in Advanced Practice Nursing
at MTU Kerry Campus or to research at either master or PhD level.

Question Time
Can I become a midwife if I do this course?
Suitably qualified registered general nurses are eligible to pursue a number of additional post-registration qualifications including midwifery. Please note there is currently no post-registration route from midwifery into general nursing.

Are there scholarships available for this course?
Yes, the Thomas McEllistrim Memorial Scholarship will be awarded to a student who has attended a second level school in Kerry who registers on either the BSc (Honours) in General Nursing or the BSc (Honours) in Mental Health Nursing at MTU.

Valued at €1,000 the scholarship will be awarded, for one academic year, to the student obtaining the highest points in the Leaving Certificate Examination and who is not already in receipt of a scholarship.

Contact Information
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Career Opportunities
Registered general nurses can explore a range of career pathways. Many enter clinical practice, specialising in areas like cardiology, intensive care, palliative care and public health nursing. You may also pursue a career in nursing management, research or education.

First Year at a Glance
• Professionalism in Nursing Practice: introduces fundamental interpersonal, legal, ethical and regulatory dimensions of professional nursing practice.
• Health and Wellbeing: provides a broad understanding of nursing and healthcare for both the individual and population groups.
• Skills for Safe Practice: introduces fundamental knowledge and skills of nursing within the parameters of a safety culture in both general and mental healthcare settings.
• Developing Competency in General Nursing Practice: encourages active engagement in evidence-based nursing practice.
• Principles of General Nursing Care: introduces human anatomy, physiology and pathophysiology in conjunction with the evidence-based theory underpinning the nursing care and management of a person, from admission to discharge.
• Caring in Context: introduces caring in the context of: primary, secondary and tertiary health care settings, maternity care, infant, child and adolescent care, safeguarding the vulnerable adult at risk of abuse, disability awareness and intellectual disability, mental health, perioperative care, critical care/emergency care, and end-of-life care.

www.mtu.ie/MT926
Mental Health Nursing (Honours)
Altranas Meabhairshláinte (Onóracha)

Application: CAO
CAO Code: MT 927
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Mental Health Nursing
Duration: 4 Years (8 Semesters)
Places: 27
Location: MTU Kerry North Campus

Overview
The aim of mental health nursing is to promote mental health and wellness, to plan with, support and provide nursing care to people who suffer from mental illness and mental distress, and to support families and communities in dealing with mental health challenges. This care can be provided in acute care facilities such as hospitals, in peoples own homes and community care settings. Supporting on-going mental health recovery is an important role of being a mental health nurse.

Our graduates work with individuals, families and communities to prevent mental health problems so that as many people as possible can live full lives in community settings. At the heart of the role of the mental health nurse is the ability to establish therapeutic relationships with individuals and their families.

The course consists of 76 weeks of classroom-based theory and practical learning, interspersed with 81 weeks of clinical placements. A 36-week continuous rostered clinical placement is also included. This can take place either locally or internationally and encompasses a very broad range of clinical settings, including acute mental health, care of the older person, specialist care, adult general nursing and working with voluntary and statutory bodies. When you complete this course, you will be eligible to have your name entered into the Psychiatric Division of the Register of Nurses maintained by Bord Altranais agus Cnáimhseachais na hÉireann.

Our nursing programmes are taught in the purpose-built SOLAS building at the MTU Kerry North Campus. This state-of-the-art facility has technology enhanced classrooms, lecture halls, practical skills laboratories and computer suites. Our partnership with the HSE offers students a wide range of exciting clinical placement facilities across counties Kerry and Cork. Throughout this programme, you will get great support from the University and from clinical staff, both in the classroom and on placement. ERASMUS opportunities are available in Oxford Brookes University in England for students studying mental health nursing at MTU.

Further Studies
Suitably qualified level 8 honours graduates are eligible to progress to
- Master of Science in Nursing
- Master of Science in Professional Nursing
- Master of Science in Advanced Practice Nursing
at MTU Kerry Campus or to research at either master or PhD level.

Question Time
Are there scholarships available for this course?
Yes, the Thomas McEllistrim Memorial Scholarship will be awarded to a student who has attended a second level school in Kerry who registers on either the BSc (Honours) in General Nursing or the BSc (Honours) in Mental Health Nursing at MTU. Valued at €1,000 the scholarship will be awarded, for one academic year, to the student obtaining the highest points in the Leaving Certificate Examination and who is not already in receipt of a scholarship.

Career Opportunities
Registered psychiatric nurses can explore a range of career pathways. Many enter clinical practice, specialising in areas like forensic psychiatry, community psychiatric nursing and counselling. You may also pursue a career in nursing management, research or education.

First Year at a Glance
- Professionalism in Nursing Practice: fundamental interpersonal, legal, ethical and regulatory dimensions of professional nursing practice
- Health and Wellbeing: provides a broad understanding of nursing and healthcare for both individual and population groups
- Skills for Safe Practice: fundamental knowledge and skills of nursing within the parameters of a safety culture in both general and mental healthcare settings
- Developing Competency in Mental Health Nursing Practice: encourages active engagement in evidence-based nursing practice
- Principles of Mental Health Nursing Care: introduces human anatomy, physiology and pathophysiology in conjunction with the evidence-based theory underpinning the nursing care and management of a person, from admission to discharge
- Caring in Context: introduces caring in the context of primary, secondary, and tertiary healthcare settings
- The Sociology and Psychology of Health and Illness: students develop an introductory knowledge of sociology and psychology as they apply to studies of health and wellness.

www.mtu.ie/MT927
<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 802</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Computer Systems</td>
<td>148</td>
</tr>
<tr>
<td>MT 706</td>
<td>7</td>
<td>Bachelor of Science in Computer Systems and Networking</td>
<td>149</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>Higher Certificate in Science in Computer Systems and Networking (Direct Entry)</td>
<td>150</td>
</tr>
<tr>
<td>MT 803</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Computing (Common Entry)</td>
<td>151</td>
</tr>
<tr>
<td>MT 703</td>
<td>7</td>
<td>Bachelor of Science in Computing (Common Entry)</td>
<td>152</td>
</tr>
<tr>
<td>MT 804</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Computing with Games Development</td>
<td>153</td>
</tr>
<tr>
<td>MT 704</td>
<td>7</td>
<td>Bachelor of Science in Computing with Games Development</td>
<td>154</td>
</tr>
<tr>
<td>MT 801</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Computing with Software Development</td>
<td>155</td>
</tr>
<tr>
<td>MT 701</td>
<td>7</td>
<td>Bachelor of Science in Computing with Software Development</td>
<td>156</td>
</tr>
<tr>
<td>MT 805</td>
<td>8</td>
<td>Bachelor of Science (Honours) in IT Management</td>
<td>157</td>
</tr>
<tr>
<td>MT 705</td>
<td>7</td>
<td>Bachelor of Science in Information Technology</td>
<td>158</td>
</tr>
<tr>
<td>MT 800</td>
<td>8</td>
<td>Bachelor of Science (Honours) in Software Development</td>
<td>159</td>
</tr>
<tr>
<td>MT 700</td>
<td>7</td>
<td>Bachelor of Science in Software Development</td>
<td>160</td>
</tr>
</tbody>
</table>
Computer Systems (Honours)
Córais Ríomhhareachta (Onórdcha)

Application: CAO
CAO Code: MT 802
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Computer Systems
Duration: 4 Years (8 Semesters)
Places: 30
Location: MTU Bishopstown Campus, Cork

The first year curriculum is common for all degrees in the Department of Computer Science, MTU Bishopstown Campus. All first year students study the same modules and this means that students can transfer to another programme within the Department in year two if they meet the CAO entry requirements for that programme when they enter MTU Bishopstown Campus, Cork. This offers great flexibility for qualifying students who may wish to change programmes after year one. This flexibility allows a student to make a more informed decision one year into their studies.

Overview
A computer systems engineer combines knowledge of computer science, engineering, and mathematical analysis to develop, test, and evaluate software for personal computers and more. Students will gain an understanding of the fundamental principles of computer systems, embedded systems, systems programming and real time systems, along with knowledge and understanding of modern computer architectures. You will become a software developer who has the programming, analysis and design skills combined with the hardware knowledge to create network/Internet/cloud-based applications. You will understand how devices (such as smart devices, desktop computers and tablets) communicate with each other and the world around them. You will gain an understanding of the fundamental principles of computer systems, embedded systems, systems programming and real time systems, along with knowledge and understanding of modern computer architectures. You will be encouraged to use initiative and confidence in approaching problems, investigating solutions using a blend of analytical and practical skills and be able to plan and design the infrastructure and systems that will allow this to happen.

In year 3, placements for students are organised on a countrywide basis with a particular focus on Cork and Dublin. Students have also obtained placement in other countries such as France, Germany, and also with smaller Irish companies.

Further Studies
Suitably qualified graduates may apply for postgraduate research degrees at master (MSc) or doctoral (PhD) level where further specialisation in your preferred area of computer science is possible. Suitably qualified graduates may also apply for these taught programmes:
• MSc in Software Architecture & Design
• MSc in Cybersecurity
• MSc in Information Design & Development
• MSc in Cloud Computing
• MSc in Artificial Intelligence

Question Time
What makes MT 802 different from the other computer science honours degrees at MTU Bishopstown Campus?
It has a stronger hardware and telecommunications emphasis, and uses mathematical abilities more.

Is there a scholarship available for the programme?
The McKesson Women in IT Scholarship is awarded each year to the female Leaving Certificate student with the highest CAO points entering a programme in the Department of Computer Science, MTU Bishopstown Campus. The scholarship will be paid to the recipient for each year of her undergraduate degree programme along with mentoring, internship and networking opportunities at McKesson Cork.

What level of programming is contained in the programme?
Programming and software development are a crucial part of the programme, accounting for roughly a quarter of the mandatory modules.

Can I work in the games development industry with this programme?
Yes, the games industry requires interdisciplinary teams when developing new products. A graduate with good software development skills and in particular, programming skills would be a major asset to such a team. We also offer a Games Development elective module.

Career Opportunities
You will have career opportunities with large multinationals such as IBM, EMC, Intel, Johnson Controls, Google, Cisco, and also with smaller Irish companies. You will be qualified to work in a wide variety of industries, such as networking, telecoms, data storage, and finance. Some graduates have progressed into project and people management roles. Graduates have commented that the dual nature of the course and the variety between the modules, opened more doors to employment than a single-focused course could have. Areas of employment include software developer; network engineering; network specialist; internet of things (IoT) specialist; embedded systems programmer; systems engineer.

First Year at a Glance
Year 1 is a common curriculum for all students and focuses on the fundamentals of Computer Science. Modules include:
• Programming Fundamentals
• Web Development Fundamentals
• Computer Architecture
• Computer Security Principles
• Maths for Computer Science
• Modular Programming
• Introduction to Databases
• Operating Systems in Practice
• Networking Fundamentals
• Physical Computing
## Overview

This degree is closely aligned to the needs of industry, training graduates who are industry-ready with the skillset to support, administer and manage information communication technology (ICT) systems and networks in a wide range of industry sectors.

Almost every business now relies on ICT and most require in-house ICT knowledge and expertise to track customers and products, to develop, analyse and administer web sites, to monitor and maintain their computers and networks, to maintain and update software operating systems and applications and to plan, deploy and monitor computer services while ensuring the security of data and networks.

There are also many large and small computer companies developing and providing software and hardware services and solutions to a variety of sectors, including financial services, food and agriculture, telecommunications, health and education. There any many roles involved in the development of these services and solutions including testing, updating and deploying the solutions, operating and monitoring software remotely and providing customer support.

The primary focus of this degree is on developing technical and practical skills in computing and the provision and maintenance of hardware, software and networks. The first semester is common to all computing courses within the Department of Computing, MTU Kerry North Campus, covering modules in computer hardware, networks and programming. Modules that focus on the provision of support and training in an IT environment are introduced from semester two.

## Further Studies

Graduates of this course are eligible to undertake a 1-year add-on degree to complete the Bachelor of Science (Honours) in Computer Services Management, where students develop the skills required to take on a management role in IT infrastructure planning and provision.

## Contact Information

Department of Computing  
| T: +353 (0)66 719 1659 | E: computingKerry@mtu.ie |

## Career Opportunities

Graduates have taken up roles as:
- IT Help Desk coordinator; IT support technician; analysts; IT systems administrators; network support engineers; network systems administrators; web developers; web administrators; ICT security analyst; cloud support; IT managers; IT site reliability technicians; DevOps engineers; ICT infrastructure support; and self-employed technical contractors.

## First Year at a Glance

- **Structured Programming**: introduces fundamentals of structured programming and lays the foundations for subsequent programming modules
- **Rapid Application Development**: helps the student understand the role of programming in application development
- **Web Development**: learn the skills and techniques necessary to design and create accessible web content using the latest languages and technologies
- **User Interfaces**: the fundamentals of User Interface Design (UI) and User Experience (UX), using design principles that encompass functionality and the user experience
- **Network Fundamentals**: the fundamentals of computer networking, the devices and protocols involved, from the physical through to the application layer
- **Database Concepts**: understanding of databases, database design, database management and the fundamentals of database programming
- **Mathematics**: general mathematical and statistical skills necessary/desirable to most areas in computing and other disciplines, to develop the student’s logical thinking and to develop an analytical approach to problem solving
- **Operating Systems**: internals of a modern operating system at a practical level via command-line and graphical user interfaces
Entry 2022

Career Opportunities

Suitably qualified Level 6 graduates are eligible to progress to year three of:
- BSc in Computer Systems and Networking

Contact Information
Department of Computing
T: +353 (0)66 719 1659
E: computingKerry@mtu.ie

Overview
The Higher Certificate is closely aligned to the needs of industry, training graduates who are industry-ready with the skillset to support, administer and manage information communication technology (ICT) systems and networks in a wide range of industry sectors.

Almost every business now relies on ICT and most require in-house ICT knowledge and expertise to track customers and products, to develop, analyse and administer web sites, to monitor and maintain their computers and networks, to maintain and update software operating systems and applications and to plan, deploy and monitor computer services while ensuring the security of data and networks.

There are also many large and small computer companies developing and providing software and hardware services and solutions to a variety of sectors, including Financial Services, Food and Agriculture, Telecommunications, Health and Education. There any many roles involved in the development of these services and solutions including testing, updating and deploying the solutions, operating and monitoring software remotely and providing customer support.

The primary focus of the higher certificate is on developing technical and practical skills in computing and the provision and maintenance of hardware, software and networks. The first semester of this course is common to all computing courses within the department, covering modules in computer hardware, networks and programming. Modules that focus on the provision of support and training in an IT environment are introduced from semester two.

A key component of this course is work placement. This is the focus of semester four and provides the opportunity for students to gain relevant, real world experience in a workplace environment.

Further Studies
Suitably qualified Level 6 graduates are eligible to progress to year three of:
- BSc in Computer Systems and Networking

Career Opportunities
Graduates have taken up roles as:
- IT help desk coordinator; IT support technician; computer sales and repairs; IT systems administrators; network support engineers; network systems administrators; web developers; web administrators; ICT security analyst; cloud support; IT site reliability technicians; ICT infrastructure support; self-employed technical contractors.

First Year at a Glance
- Structured Programming: introduces fundamentals of structured programming and lays the foundations for subsequent programming modules
- Rapid Application Development: helps the student understand the role of programming in application development
- Web Development: learn the skills and techniques necessary to design and create accessible web content using the latest languages and technologies
- User Interfaces: the fundamentals of User Interface Design (UI) and User Experience (UX), using design principles that encompass functionality and the user experience
- Network Fundamentals: the fundamentals of computer networking, the devices and protocols involved, from the physical through to the application layer
- Database Concepts: understanding of databases, database design, database management and the fundamentals of database programming
- Mathematics: general mathematical and statistical skills necessary/desirable to most areas in computing and other disciplines, to develop the student’s logical thinking and to develop an analytical approach to problem solving
- Operating Systems: internals of a modern operating system at a practical level via command-line and graphical user interfaces

www.mtu.ie/KCPITC
Computing (Common Entry) (Honours)
Ríomhaireacht (Iontráil Chomónta) (Onóracha)

Application: CAO
CAO Code: MT 803
NFQ Level: 8
Award Title: Depends on specialism
• Bachelor of Science (Hons) in Computing with Games Development
• Bachelor of Science (Hons) in Computing with Software Development
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Kerry North Campus

Overview
Computing professionals are in high demand and short supply. This computing degree prepares graduates to be problem solvers and innovative thinkers. During the first year, students will study common modules, as they progress into second year they will be offered a choice of specialisms:

Choose between:
• Games Development
• Software Development

Students will be given the opportunity to experience each of the specialist areas before making their choice. The programme is designed to develop the student’s technical skills in the core areas of computing and their chosen specialism while also developing the skills necessary for a successful career.

The computing and information technology sector continues to be a driving force in our economy and the demand for graduates outstrips supply. This programme produces graduates with the skills that are highly sought after by local, national and international employers. It has been designed using input from industry, graduates and students. This programme covers a comprehensive range of core computing areas and, together with their chosen specialism, ensures graduates have a solid foundation for a successful career. The heavy focus on programming and on workplace preparedness gives our graduates a keen edge in a competitive environment.

Further Studies
Suitably qualified Level 8 Honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Question Time
What is the difference between choosing Computing (Common Entry) at Level 8 to Computing (Common Entry) at Level 7?

Students commencing on the Level 7 route will have completed their ordinary BSc degree in 3 years, while those who choose the Level 8 route will take 4 years to complete their honours BSc degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

Contact Information
Department of Computing
T: +353 (0)66 719 1659
E: computingKerry@mtu.ie

Career Opportunities
Depending on their particular skillsets, our graduates find work in a variety of roles, including:
• programmer/software developer with a games company, media or other technology enterprise; developer of digital media and audio/video content; Database administrator; Data analyst; Web developer; Web manager; Network administrators; Systems administrators; and Computer technicians.

First Year at a Glance
• Structured Programming: fundamentals of structured programming which lays the foundations for subsequent programming modules
• Rapid Application Development: understand the role of programming in application development
• Web Development: skills and techniques necessary to design and create accessible web content using the latest languages and technologies
• User Interfaces: the fundamentals of User Interface Design (UI) and User Experience (UX), using design principles that encompass functionality and the user experience
• Network Fundamentals: fundamentals of computer networking, the devices and protocols involved, from the physical through to the application layer
• Database Concepts: an understanding of databases, database design, database management and the fundamentals of database programming
• Mathematics: general mathematical and statistical skills necessary/desirable to most areas in computing and other disciplines, to develop the student’s logical thinking and to develop an analytical approach to problem solving

www.mtu.ie/MT803
Computing (Common Entry)
Ríomhaireacht (Iontráil Chomónta)

Application: CAO
CAO Code: MT 703
NFQ Level: 7
Award Title: Depends on specialism
• Bachelor of Science in Computing with Games Development
• Bachelor of Science in Computing with Software Development
Duration: 3 Years (6 Semesters)
Places: 20
Location: MTU Kerry North Campus

Overview
Computing professionals are in high demand and short supply. This computing degree prepares graduates to be problem solvers and innovative thinkers. During first year, students will study common modules, as they progress into second year they will be offered a choice of specialisms:

Choose between:
• Games Development
• Software Development

Students will be given the opportunity to experience each of the specialist areas before making their choice. The programme is designed to develop the student’s technical skills in the core areas of computing and their chosen specialism while also developing the skills necessary for a successful career.

The computing and information technology sector continues to be a driving force in our economy and the demand for graduates outstrips supply. This programme produces graduates with the skills that are highly sought after by local, national and international employers. It has been designed using input from industry, graduates and students. This programme covers a comprehensive range of core computing areas and, together with their chosen specialism, ensures graduates have a solid foundation for a successful career.

The heavy focus on programming and on workplace preparedness gives our graduates a keen edge in a competitive environment.

Further Studies
Depending on the specialism choice, suitably qualified level 7 graduates are eligible to progress to year 4 (final)
• BSc (Honours) in Computing with Games Development
• BSc (Honours) in Computing with Software Development

Question Time
What is the difference between choosing Computing (Common Entry) at Level 8 to Computing (Common Entry) at Level 7?
Students commencing on the Level 7 route will have completed their ordinary BSc degree in 3 years, while those who choose the Level 8 route will take 4 years to complete their honours BSc degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

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Career Opportunities
Depending on their particular skillsets, our graduates find work in a variety of roles, including:
• programmer/software developer with a games company, media or other technology enterprise; developer of digital media and audio/video content; database administrator; data analyst; web developer; network administrator; systems administrators; and computer technicians.

First Year at a Glance
• Structured Programming: introduces fundamentals of structured programming which lays the foundations for subsequent programming modules
• Rapid Application Development: helps the student understand the role of programming in application development
• Web Development: learn the skills and techniques necessary to design and create accessible web content using the latest languages and technologies
• User Interfaces: the fundamentals of User Interface Design (UI) and User Experience (UX), using design principles that encompass functionality and the user experience
• Network Fundamentals: the fundamentals of computer networking, the devices and protocols involved, from the physical through to the application layer
• Database Concepts: understanding of databases, database design, database management and the fundamentals of database programming
• Mathematics: general mathematical and statistical skills necessary/desirable to most areas in computing and other disciplines, to develop the student’s logical thinking and to develop an analytical approach to problem solving
• Operating Systems: internals of a modern operating system at a practical level via command-line and graphical user interfaces

www.mtu.ie/MT703
Computing with Games Development (Honours)
Ríomhaireacht le Forbairt Cluichí (Onóracha)

Application: CAO
CAO Code: MT 804
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Computing with Games Development
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Kerry North Campus

Overview
This course will give you all the skills you need to work with computers and computer systems, providing the bedrock to a thriving career in the vibrant ICT sector, in Ireland and internationally. There are modules in Object Oriented Programming, Algorithms and Data Structures, Software Engineering, Computer Architecture, Operating Systems, Networks, Database Programming and Web Development. Given the games development specialisation, all of our students take additional modules in Games Development, Computer Graphics, 3D Animation, and Practical Gaming.

The ICT sector is going from strength to strength, both here and abroad, while Ireland continues to carve out an exciting niche in games development. The course provides a comprehensive range of integrated content that helps our students to build the skills that provide a solid foundation for both further study and a career in the ICT industry. Programming skills are fundamental to games development and the heavy bias towards programming in this course means that our graduates are very highly regarded in the industry. In addition to the right mix of skills, their workplace-oriented mindset gives them a keen edge in a highly competitive environment.

This course is delivered on the University’s North Campus in Kerry, adjacent to Kerry Technology Park, where a number of new, exciting and highly successful technology enterprises are based. Our close links with these enterprises have been invaluable in providing employment opportunities for our graduates.

Further Studies
Suitably qualified Level 8 Honours graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Question Time
What is the difference between choosing Computing with Games Development at Level 8 to Computing with Games Development at Level 7?
Students commencing on the Level 7 route will have completed their ordinary BSc degree in 3 years, while those who choose the Level 8 route will take 4 years to complete their honours BSc degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

Contact Information
Department of Computing
T: +353 (0)66 719 1659
E: computingKerry@mtu.ie

Career Opportunities
Depending on their particular skillsets, our graduates find work in a variety of roles, including:
- programmer/software developer with a games company, media or other technology enterprise; developer of digital media and audio/video content; database administrator; network technician and administrator; web developer; web manager; and computer technicians.

First Year at a Glance
- Structured Programming: fundamentals of structured programming which lays the foundations for subsequent programming modules
- Rapid Application Development: understand the role of programming in application development
- Web Development: skills and techniques necessary to design and create accessible web content using the latest languages and technologies
- User Interfaces: demonstrates the fundamentals of User Interface Design (UI) and User Experience (UX), using design principles that encompass functionality and the user experience
- Network Fundamentals: fundamentals of computer networking, the devices and protocols involved, from the physical through to the application layer
- Database Concepts: understanding of databases, database design, database management and the fundamentals of database programming
- Mathematics: general mathematical and statistical skills necessary/desirable to most areas in computing and other disciplines, to develop the student’s logical thinking and to develop an analytical approach to problem solving.

www.mtu.ie/MT804
Computing with Games Development
Ríomhaireacht le Forbairt Cluichí

Application: CAO
CAO Code: MT 704
NFQ Level: 7
Award Title: Bachelor of Science in Computing with Games Development
Duration: 3 Years (6 Semesters)
Places: 20
Location: MTU Kerry North Campus

Overview
This course will give you all the skills you need to work with computers and computer systems, providing the bedrock to a thriving career in the vibrant ICT sector, in Ireland and internationally. There are modules in Object Oriented Programming, Algorithms and Data Structures, Software Engineering, Computer Architecture, Operating Systems, Networks, Database Programming and Web Development. Given the games development specialisation, all of our students take additional modules in Games Development, Computer Graphics, 3D Animation, and Practical Gaming.

The ICT sector is going from strength to strength, both here and abroad, while Ireland continues to carve out an exciting niche in games development. The course provides a comprehensive range of integrated content that helps our students to build the skills that provide a solid foundation for both further study and a career in the ICT industry. Programming skills are fundamental to games development and the heavy bias towards programming in this course means that our graduates are very highly regarded in the industry. In addition to the right mix of skills, their workplace-oriented mindset gives them a keen edge in a highly competitive environment.

This course is delivered on the University’s North Campus in Kerry, adjacent to Kerry Technology Park, where a number of new, exciting and highly successful technology enterprises are based. Our close links with these enterprises have been invaluable in providing employment opportunities for our graduates.

Further Studies
Suitably qualified level 7 graduates are eligible to progress to year 4 (final year)
• BSc (Honours) in Computing with Games Development

Question Time
What is the difference between choosing Computing with Games Development at Level 8 to Computing with Games Development at Level 7?
Students commencing on the Level 7 route will have completed their ordinary BSc degree in 3 years, while those who choose the Level 8 route will take 4 years to complete their honours BSc degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

Contact Information
Department of Computing
T: +353 (0)66 719 1659
E: computingKerry@mtu.ie

Career Opportunities
Depending on their particular skillsets, our graduates find work in a variety of roles, including:
• programmer/software developer with a games company, media or other technology enterprise; developer of digital media and audio/video content; database administrator; network technician and administrator; web developer; web manager; and computer technicians.

First Year at a Glance
• Structured Programming: fundamentals of structured programming which lays the foundations for subsequent programming modules
• Rapid Application Development: understand the role of programming in application development
• Web Development: skills and techniques necessary to design and create accessible web content using the latest languages and technologies
• User Interfaces: demonstrates the fundamentals of User Interface Design (UI) and User Experience (UX), using design principles that encompass functionality and the user experience
• Network Fundamentals: fundamentals of computer networking, the devices and protocols involved, from the physical through to the application layer
• Database Concepts: understanding of databases, database design, database management and the fundamentals of database programming
• Mathematics: general mathematical and statistical skills necessary/desirable to most areas in computing and other disciplines, to develop the student’s logical thinking and to develop an analytical approach to problem solving.
Computing with Software Development (Honours)
Ríomhaireacht le Forbairt Bogearraí (Onóracha)

Application: CAO
CAO Code: MT 801
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in Computing with Software Development
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Kerry North Campus

Overview
This degree is designed to give you the skill and competence to design and build applications used by business and consumers. The primary focus is on developing your ability to use programming languages. We cover computer architecture and operating systems, and we explore networking and how computers interconnect. We look at databases, mathematics, logic and software development, together with a range of additional modules, all of which address cutting edge ICT issues. In fourth year, students study a variety of modules at a more advanced level.

We provide the environment to allow those with a passion for software development to achieve their goals. Our programmes encourage you to follow your strengths and interests through a range of project activities that are embedded in course content. These projects, together with the emphasis on career development in the programmes, make studying computing at MTU deeply relevant to real life situations, providing you with the perfect launch pad for a successful career. Our graduates are skilled in both research methods and project management. They are team-workers, who have the skills to progress to project-leading activities.

This course is delivered on the University’s North Campus in Kerry, adjacent to Kerry Technology Park, where a number of new, exciting and highly successful technology enterprises are based. Our close links with these enterprises have been invaluable in providing employment opportunities for our graduates.

Further Studies
Suitably qualified graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Question Time
What is the difference between choosing Computing with Software Development at Level 8 to Computing with Software Development at Level 7?
Students commencing on the Level 7 route will have completed their ordinary BSc degree in 3 years, while those who choose the Level 8 route will take 4 years to complete their honours BSc degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

Contact information
Department of Computing
T: +353 (0)66 719 1659
E: computingKerry@mtu.ie

Career Opportunities
Technology enterprises are looking for graduates with a combination of skills and graduates take up a wide variety of roles, including: programmer/software; developer in a technology enterprise; developer of digital media and audio/video content; network technician or administrator; database administrator; web developer or web manager; and self-employment in the ICT area.

First Year at a Glance
- Structured Programming: fundamentals of structured programming which lays the foundations for subsequent programming modules
- Rapid Application Development: understand the role of programming in application development
- Web Development: skills and techniques necessary to design and create accessible web content using the latest languages and technologies
- User Interfaces: demonstrates the fundamentals of User Interface Design (UI) and User Experience (UX), using design principles that encompass functionality and the user experience
- Network Fundamentals: fundamentals of computer networking, the devices and protocols involved, from the physical through to the application layer
- Database Concepts: understanding of databases, database design, database management and the fundamentals of database programming
- Mathematics: general mathematical and statistical skills necessary/desirable to most areas in computing and other disciplines, to develop the student’s logical thinking and to develop an analytical approach to problem solving.

www.mtu.ie/MT801
Computing with Software Development
Ríomhaireacht le Forbairt Bogearraí

Application: CAO
CAO Code: MT 701
NFQ Level: 7
Award Title: Bachelor of Science in Computing with Software Development
Duration: 3 Years (6 Semesters)
Places: 20
Location: MTU Kerry North Campus

Overview
This degree is designed to give you the skill and competence to design and build applications used by business and consumers. The primary focus is on developing your ability to use programming languages. We cover computer architecture and operating systems, and we explore networking and how computers interconnect. We look at databases, mathematics, logic and software development, together with a range of additional modules, all of which address cutting edge ICT issues.

We provide the environment to allow those with a passion for software development to achieve their goals. Our programmes encourage you to follow your strengths and interests through a range of project activities that are embedded in course content. These projects, together with the emphasis on career development in the programmes, make studying computing at MTU deeply relevant to real life situations, providing you with the perfect launch pad for a successful career. Our students are skilled in both research methods and project management. They are team-workers, who have the skills to progress to project-leading activities.

This course is delivered on the University’s North Campus in Kerry, adjacent to Kerry Technology Park, where a number of new, exciting and highly successful technology enterprises are based. Our close links with these enterprises have been invaluable in providing employment opportunities for our graduates.

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year) of BSc (Honours) in Computing with Software Development

Question Time
What is the difference between choosing Computing with Software Development at Level 8 to Computing with Software Development at Level 7?
Students commencing on the Level 7 route will have completed their ordinary BSc degree in 3 years, while those who choose the Level 8 route will take 4 years to complete their honours BSc degree, with significant additional material being delivered in the fourth year to achieve the higher level award.

Contact Information
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E: computingKerry@mtu.ie

Career Opportunities
Graduates take up a wide variety of roles, including: programmer/software developer in a technology enterprise; developer of digital media and audio/video content; network technician or administrator; database administrator; web developer or web manager; and self-employment in the ICT area.

First Year at a Glance
• Structured Programming: fundamentals of structured programming which lays the foundations for subsequent programming modules
• Rapid Application Development: understand the role of programming in application development
• Web Development: skills and techniques necessary to design and create accessible web content using the latest languages and technologies
• User Interfaces: demonstrates the fundamentals of User Interface Design (UI) and User Experience (UX), using design principles that encompass functionality and the user experience
• Network Fundamentals: fundamentals of computer networking, the devices and protocols involved, from the physical through to the application layer
• Database Concepts: understanding of databases, database design, database management and the fundamentals of database programming
• Mathematics: general mathematical and statistical skills necessary/desirable to most areas in computing and other disciplines, to develop the student’s logical thinking and to develop an analytical approach to problem solving.

www.mtu.ie/MT701
IT Management (Honours)
Bainistíocht TF (Onórracha)

Overview
The programme provides students with the knowledge, skills and competencies in IT infrastructure and cybersecurity and is designed around five key strategic pillars: Cyber Security, Networking, Cloud Computing Technologies, Automation, and IT Management. In year 3, work placement begins in January. Placements for students are organised on a country-wide basis with a particular focus on Cork and Dublin. Students may also choose to work abroad. With the Erasmus programme, students travel to study at MTU from across Europe and many MTU students travel to study beyond our shores. The department has strong links with institutions in Germany, Sweden, France, and Finland.

The programme provides graduates with both the management and technical skills to work in a wide range of organisations. At a time when reliance on secure IT systems grows more critical, there is an increasing need for graduates with the skills required to manage IT services and implement complex projects securely. This programme is specifically designed to address these needs.

Further Studies
Suitably qualified graduates may apply for postgraduate research degrees at master (MSc) or doctoral (PhD) level, or the following taught master degrees:
- MSc in Cybersecurity
- MSc in Cybersecurity Management
- MSc in Information Design & Development
- MSc in Cloud Computing

Contact Information
Dr Seán McSweeney
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E: sean.mcsweeney@mtu.ie

Career Opportunities
You will have career opportunities with large multinationals such as Dell, VMWare, McKesson, eSentire, Blackberry, Pfizer and also with indigenous companies such as AIB, Musgrave, and Eircom. You will be qualified to work across a range of industries in which there is a need for cybersecurity, network operations and IT Management. On completion of this programme, your core skills will be implementing, managing and securing complex networking and IT systems. A core element of this programme also provides you with the knowledge and skills to interact with management teams and act as an interface between technology teams and the other business functions in medium and large enterprises.

- IT project manager
- Cybersecurity specialist
- IT Security engineer
- Network manager
- System manager

First Year at a Glance
The first year curriculum is a common curriculum for all students and focuses on the fundamentals of computer science. Modules include:
- Programming Fundamentals
- Web Development Fundamentals
- Computer Architecture
- Computer Security Principles
- Maths for Computer Science
- Modular Programming
- Introduction to Databases
- Operating Systems in Practice
- Networking Fundamentals
- Physical Computing

Application: CAO
CAO Code: MT 805
NFQ Level: 8
Award Title: Bachelor of Science (Honours) in IT Management
Duration: 4 Years (8 Semesters)
Places: 30
Location: MTU Bishopstown Campus, Cork

The first year curriculum is common for all degrees in the Department of Computer Science, MTU Bishopstown Campus. All first year students study the same modules and this means that students can transfer to another programme within the Department in year two if they meet the CAO entry requirements for that programme when they enter MTU Bishopstown Campus. Cork. This offers great flexibility for qualifying students who may wish to change programmes after year one. This flexibility allows a student to make a more informed decision one year into their studies.

Question Time
What makes MT 805 different from the other Computer Science Honours Degrees at MTU?
It has a strong focus on security, networking and IT management and less on software development.

Are there scholarships available for the programme?
Yes, there are two scholarships.
1. McKesson Women in IT Scholarship
The McKesson Women in IT Scholarship is awarded each year to the female Leaving Certificate student with the highest CAO points entering a programme in the Department of Computer Science MTU Bishopstown Campus. The scholarship will be paid to the recipient for each year of her undergraduate degree programme along with mentoring, internship and networking opportunities at McKesson Cork.

2. Yves Beretta Memorial Scholarship
Registered students who successfully complete year 1 of this programme may apply for the Yves Beretta Memorial Scholarship which is funded by Canadian based cyber security company, eSentire, whose European headquarters is based in Ballincollig, Co. Cork.

What level of programming is contained in the course?
Programming is not the primary focus of this programme. You will cover some basic programming modules in first year.

Can I design and develop websites from this programme?
Some modules in this degree focus on building and running basic websites. More advanced specialised modules in web development are also available as electives.
Information Technology
Teicneolaíocht Faisnéise

Application: CAO
CAO Code: MT 705
NFQ Level: 7
Award Title: Bachelor of Science in Information Technology
Duration: 3 Years (6 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

The first year curriculum is common for all degrees in the Department of Computer Science, MTU Bishopstown Campus. All first year students study the same modules and this means that students can transfer to another programme within the Department in year two if they meet the CAO entry requirements for that programme when they enter MTU Bishopstown Campus, Cork. This offers great flexibility for qualifying students who may wish to change programmes after year one. This flexibility allows a student to make a more informed decision one year into their studies.

Overview
The programme provides students with the knowledge, skills and competencies in IT infrastructure, security, emerging technologies, systems management, database systems and IT applications. The programme is designed around four key strategic pillars; Networking, Security, Cloud Computing Technologies, Scripting and Database Systems. The students who enrol on this programme will study modules aligned to the above areas.

Students will also learn about Information Security, a rapidly expanding sector in the computer industry. As more technology goes online, students will learn how secure private and sensitive information is most at risk from cyberattacks. The aim of the degree is to produce graduates with skills in IT infrastructure, operating systems, systems administration, cloud computing technologies and cybersecurity. Graduates will be able to design, deploy and administer virtualised environments, deploy and configure networks, and secure IT infrastructures and IT Systems. At a time of increasing reliance on IT services, the demand for graduates with the skills to implement and maintain IT infrastructure remains high. This programme is specifically designed to address this need.

In Year 3, work placement runs from January. Placements for students are organised on a country-wide basis with a particular focus on Cork and Dublin. Students can also work abroad.

Further Studies
Graduates who have achieved an average of 50% are eligible to apply for year 4 (final year) of
• BSc (Honours) in IT Management (MT 805)

Contact Information
Dr Olivia Brickley
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E: olivia.brickley@mtu.ie

Questions and Answers

Career Opportunities
Graduates who can coordinate and supervise the configuration, testing and deployment of IT Services and the ongoing support of those systems and their users are in constant demand.

• IT Support engineer
• Database administrator
• Network administrator
• System administrator

First Year at a Glance
The first year curriculum is a common curriculum for all students and focuses on the fundamentals of Computer Science. Modules include:
• Programming Fundamentals
• Web Development Fundamentals
• Computer Architecture
• Computer Security Principles
• Maths for Computer Science
• Modular Programming
• Introduction to Databases
• Operating Systems in Practice
• Networking Fundamentals
• Physical Computing

www.mtu.ie/MT705
The first year curriculum is common for all degrees in the Department of Computer Science, MTU Bishopstown Campus. All first year students study the same modules and this means that students can transfer to another programme within the Department in year two if they meet the CAO entry requirements for that programme when they enter MTU Bishopstown Campus. Cork. This offers great flexibility for qualifying students who may wish to change programmes after year one. This flexibility allows a student to make a more informed decision one year into their studies.

Overview

This programme gives you the skills and knowledge you need to design and build applications that people use every day, for the desktop computer, for the web and for mobile devices (such as smart phones and tablets). You will become proficient in the application of state-of-the-art technologies in areas such as cloud computing, machine learning, big data and data analytics. As a Software Developer, you will be involved in all stages of the application from start to finish. You will be taught how to take a concept/idea from a description and develop it to make a fully working application. You will develop problem solving and programming skills to solve simple (and eventually complex) real-world problems using computers.

One of the benefits of this Honours Degree is that it has a broad range of modules. The main focus of the degree is programming, so you will learn languages such as Python, Java, C, JavaScript and PHP. You will also learn about databases (where and how data is stored), operating systems, object-oriented programming, application development, software testing, data analytics and many more topics. You can also take elective modules in a selection of areas. You will complete projects on your own and in groups throughout the degree, which will prepare you for working in industry.

In Year 3, students go on work placement from January. Placements for students are organised on a country-wide basis with a particular focus on Cork and Dublin. Students have also obtained placement in other countries such as France, Germany, Sweden and the USA.

Contact Information

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Career Opportunities

Software Development graduates work in a diverse range of roles. You will have career opportunities in Cork, Ireland and abroad, with large multinationals (such as IBM, Dell EMC, McAfee, Johnson Controls), and also with smaller Irish companies. Graduates have also found employment within large IT departments in companies within the Chemical, Pharmaceutical or Food Industry. Graduates have also moved into roles in System Administration and Software Testing. A percentage of graduates from the programme chose to take up jobs in the Software Industry abroad.

• Application developer
• Applications engineer
• Software engineer
• Software developer
• Java developer
• Mobile App developer
• Full-Stack developer
• Software Project manager

First Year at a Glance

The first year curriculum is a common curriculum for all students and focuses on the fundamentals of Computer Science. Modules include:

• Programming Fundamentals
• Web Development Fundamentals
• Computer Architecture
• Computer Security Principles
• Maths for Computer Science
• Modular Programming
• Introduction to Databases
• Operating Systems in Practice
• Networking Fundamentals
• Physical Computing
• Discrete Mathematics

www.mtu.ie/MT800
Software Development
Forbaírnt Bogearraí

Application: CAO
CAO Code: MT 700
NFQ Level: 7
Award Title: Bachelor of Science in Software Development
Duration: 3 Years (6 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

The first year curriculum is common for all degrees in the Department of Computer Science, MTU Bishopstown Campus. All first year students study the same modules and this means that students can transfer to another programme within the Department in year two if they meet the CAO entry requirements for that programme when they enter MTU Bishopstown Campus, Cork. This offers great flexibility for qualifying students who may wish to change programmes after year one. This flexibility allows a student to make a more informed decision one year into their studies.

Overview
The BSc in Software Development is a three-year Level 7 degree programme designed to provide students with the theoretical and practical skills necessary to gain employment in the software development industry. More specifically, the programme will provide students with relevant skills and knowledge in the area of modern software development focusing on languages, techniques, tools and methodologies and their application to real world problems.

The aim of the programme is to provide students with the competencies necessary to support a successful career in the software development industry. The degree provides students with analytical skills as well as an in-depth understanding of modern programming languages, tools and methods. The students’ education is also supported in other related areas to ensure the capability to progress their careers in the long term.

In Year 3, work placement runs from January. Placements for students are organised on a country-wide basis with a particular focus on Cork and Dublin. Students can also work abroad.

The first year curriculum is common for all degrees in the Department of Computer Science, MTU Bishopstown Campus. All first year students study the same modules and this means that students can transfer to another programme within the Department in year two if they meet the CAO entry requirements for that programme when they enter MTU Bishopstown Campus, Cork. This offers great flexibility for qualifying students who may wish to change programmes after year one. This flexibility allows a student to make a more informed decision one year into their studies.

Further Studies
Graduates who have achieved an average of 50% are eligible to apply for year 4 (final year) of
• BSc (Honours) in Software Development

Question Time
Can I work in the Games Development Industry with this programme?
Yes, the skills acquired in completing the course in software development and programming are very applicable to the games development industry.

What level of Programming is contained in the programme?
Programming and Software Engineering are a crucial part of the programme.

Can I design and develop websites from this programme?
You will learn about web publishing and development and will be designing and developing websites by the end of the programme.

Will I be designing Apps?
You will take the Programming Mobile Devices module in Year 3. In this module you will learn how to develop mobile applications for Android based devices.

What makes MT 700 different from the Computer Science Honours Degrees (Level 8) at MTU?
MT 700 is a Level 7 Software Development degree which has a Higher Certificate option for successful students who wish to leave after two years of study.

First Year at a Glance
The first year curriculum is a common curriculum for all students and focuses on the fundamentals of Computer Science. Modules include:
• Programming Fundamentals
• Web Development Fundamentals
• Computer Architecture
• Computer Security Principles
• Maths for Computer Science
• Modular Programming
• Introduction to Databases
• Operating Systems in Practice
• Networking Fundamentals
• Physical Computing

Contact Information
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E: ignacio.castineiras@mtu.ie
Art, Design, and Creative Media
<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course</th>
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<tbody>
<tr>
<td>MT 811</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Animation, Visual Effects and Motion Design</td>
<td>164</td>
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<tr>
<td>MT 711</td>
<td>7</td>
<td>Bachelor of Arts in Animation, Visual Effects and Motion Design</td>
<td>165</td>
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<tr>
<td>MT 820</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Contemporary Applied Art (Ceramics, Glass, Textiles)</td>
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<td>MT 824</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Creative Digital Media</td>
<td>167</td>
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<td>MT 821</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Fine Art</td>
<td>168</td>
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<td>MT 822</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Photography with New Media</td>
<td>169</td>
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<td>MT 812</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in TV, Radio and New Media</td>
<td>170</td>
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<td>MT 712</td>
<td>7</td>
<td>Bachelor of Arts in TV, Radio and New Media</td>
<td>171</td>
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<tr>
<td>MT 823</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Visual Communications</td>
<td>172</td>
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</table>
Overview
This course gives you up-to-the-minute skills and industry relevant training in the animation and visual effects sector. It will introduce you to the core principles of creative film making, animation and visual storytelling.

Ireland has one of the fastest growing animation sectors in the world and some of the largest animation companies are based here. This degree gives you the necessary practical and technical skills for employment in this rapidly expanding sector. There are modules on drawing/character development, illustration, design, character modelling, animation principles, puppet/set design, stop motion, digital graphics, visual effects, motion graphics, compositing, 2D/3D modelling, rigging, texturing, lighting, photography and digital cinematography. The course also provides training in video, audio recording, research and design skills.

As you progress through the programme, you develop particular specialisations based on your interests and skills.

This degree gives you the core skills to launch a career in Ireland’s vibrant animation, games and visual effects industry. The content has been designed with extensive input from industry animators, in order to make sure our graduates have the skills that employers need. The degree is designed to foster creative talent in a technology-driven environment, enabling our students to design and develop animation content while working with the latest industry standard software. You get hands-on, practical, applied training, and an appreciation of relevant theories underpinning the evolution of animation, visual effects and motion design.

Further Studies
Suitably qualified Level 8 graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Contact Information
Department of Creative Media and Information Technology
T: +353 (0)66 719 1659
E: creativemediakerry@mtu.ie

Career Opportunities
Our graduates pursue careers in
• Animation
• Film
• Games
• TV
• Web animation
• Mobile and online content
• Advertising

First Year at a Glance
• Social Media Tools and Enterprise Studies: fosters digital media and entrepreneurial skills as well as promoting communication, innovation and creativity
• 2D Animation: introduces the student to the principles of animation
• Sound and Digital Audio: develops recording, editing and mixing skills to a basic level
• New Media Concepts: history, development and uses of media (radio/film/games/tv/multimedia)
• Drawing and Modelling 1: a grounding in hand drawn/modelling skills, with a view to creating analytical and imaginative compositions that are technically and aesthetically accomplished
• Principles of Animation, Visual Effects and Motion Design: a grounding in the interrelated programme strands

www.mtu.ie/MT811

Scores the necessary CAO points and meet minimum Leaving Certificate requirements

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<th>SUBJECTS O6/H7</th>
<th>SUBJECTS H5</th>
<th>MATHS GRADE</th>
<th>ENGLISH OR IRISH GRADE</th>
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Portfolio is required
For details see www.mtu.ie/MT811

Note: Applications will be assessed based on a combination of Leaving Certificate points and points awarded for portfolio.

We reserve the right to interview if the successful applicant numbers exceed places available.
Animation, Visual Effects and Motion Design
Beochan, Maisíochta Físe agus Dearadh Gluaisne

Application: CAO (restricted)
CAO Code: MT 711
NFQ Level: 7
Award Title: Bachelor of Arts in Animation, Visual Effects & Motion Design
Duration: 3 Years (6 Semesters)
Places: 24
Location: MTU Kerry North Campus

Overview
This course gives you up-to-the minute skills and industry relevant training in the animation and visual effects sector. It will introduce you to the core principles of creative film making, animation and visual storytelling.

Ireland has one of the fastest growing animation sectors in the world and some of the largest animation companies are based here. This degree gives you the necessary practical and technical skills for employment in this rapidly expanding sector. There are modules on drawing/character development, illustration, design, character modelling, animation principles, puppet/set design, stop motion, digital graphics, visual effects, motion graphics, compositing, 2D/3D modelling, rigging, texturing, lighting, photography and digital cinematography. The course also provides training in video, audio recording, research and design skills. As you progress through the programme, you develop particular specialisations based on your interests and skills.

This degree gives you the core skills to launch a career in Ireland’s vibrant animation, games and visual effects industry. The content has been designed with extensive input from industry animators, in order to make sure our graduates have the skills that employers need. The degree is designed to foster creative talent in a technology-driven environment, enabling our students to design and develop animation content while working with the latest industry standard software. You get hands-on, practical, applied training, and an appreciation of relevant theories underpinning the evolution of animation, visual effects and motion design.

Further Studies
Suitably qualified Level 7 graduates are eligible to progress to year 4 (final year)
• BA (Honours) in Animation, Visual Effects and Motion Design

Contact Information
Department of Creative Media and Information Technology
T: +353 (0)66 719 1659
E: creativemediakerry@mtu.ie

First Year at a Glance
• Social Media Tools and Enterprise Studies: fosters digital media and entrepreneurial skills as well as promoting communication, innovation and creativity
• 2D Animation: introduces the student to the principles of animation
• Sound and Digital Audio: develops recording, editing and mixing skills to a basic level
• New Media Concepts: history, development and uses of media (radio/film/games/tv/multimedia)
• Drawing and Modelling 1: a grounding in hand drawn/modelling skills, with a view to creating analytical and imaginative compositions that are technically and aesthetically accomplished
• Principles of Animation, Visual Effects and Motion Design: a grounding in the interrelated programme strands

Career Opportunities
Our graduates pursue careers in
• Animation
• Film
• Games
• TV
• Web animation
• Mobile and online content
• Advertising

PORTFOLIO IS REQUIRED
For details see www.mtu.ie/MT711
NOTE: Applications will be assessed based on a combination of Leaving Certificate points and points awarded for portfolio.
We reserve the right to interview if the successful applicant numbers exceed places available.

score the necessary CAO points and meet minimum Leaving Certificate requirements

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PORTFOLIO IS REQUIRED
For details see www.mtu.ie/MT711
NOTE: Applications will be assessed based on a combination of Leaving Certificate points and points awarded for portfolio.
We reserve the right to interview if the successful applicant numbers exceed places available.

SUBJECTS
MATHS ENGLISH OR IRISH GRADE
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www.mtu.ie/MT711

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Contemporary Applied Art (Ceramics, Glass, Textiles) (Honours)

Ealaín Fheidhmeach Chomhaimseartha (Criadóireacht, Gloine, Teicstílí) (Onórracha)

Application: CAO (restricted)
CAO Code: MT 820
NFO Level: 8
Award Title: Bachelor of Arts (Honours) in Contemporary Applied Art (Ceramics, Glass, Textiles)
Duration: 4 Years (8 Semesters)
Places: 15
Location: MTU Crawford College of Art & Design, Sharman Crawford Street, Cork

Overview
Contemporary Applied Art (Ceramics, Glass & Textiles) encourages fresh ideas, inventive use of materials and techniques, and offers students the opportunity to critically engage with making.

This is an innovative interdisciplinary programme with an emphasis in three main material areas, ceramics, glass, and textiles, either as a chosen specialism, or in combination. This course offers a creative and playful approach to materials and idea development with a strong emphasis on practical skills, conceptual development and self-directed exploration.

The delivery of this course is modular and centred on ‘thinking through making’ including: skills development workshops, lectures, group seminars, tutorials, peer and independent learning. In their final year students will be expected to develop and execute an original body of work to a high standard and undertake a written thesis which explores the intellectual aspects and implications of the work. In the final year also, students undertake a professional practice module, which is delivered by an international curator to teach students how to present their work to the professional world.

Students are encouraged to pursue opportunities within the programme for international exchange and placement. The Crawford has extensive facilities; excellent specialised workshops, digital labs, individual studio space, and a specialised visual arts library; which with the experienced artist and educator lecturing staff makes the College a vibrant place to study and grow.

Further Studies
Suitably qualified graduates are eligible to apply for:
• Professional Master of Education (Art and Design)
• MA in Art Therapy
• MA in Art & Process
• MA in Journalism and Digital Content Creation
• MA in Public Relations with New Media
• MA in E-Learning Design and Development
• MA by Research
• PhD

For details, see crawford.mtu.ie

Question Time
What are the application deadlines?
The deadline for applicants applying through the CAO is 1st February (5.15pm), after which they will receive an invitation to submit their portfolio for assessment in March.

MTU CCAD will accept applications from mature applicants up to the 1st May (5.15pm).

Is there a late application facility?
It is very important to note that the CAO Change of Mind facility does not apply to restricted access courses such as MT 820. You can change the order of your CAO choices but you cannot add on this course if you haven’t listed it already on your CAO application before the 1st February at 5.15pm.

Is there any written exam?
There are no formal (sit-down) exams. However, there are many academic modules where assessment is in essay, report, seminar paper, thesis format.

Does the College provide all the materials for coursework?
We have stores in the College providing paper, canvas, paint, clay, inks etc. where students can purchase materials.

Contact Information
Trish Brennan
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Career Opportunities
This degree can potentially lead to a wide variety of career opportunities across a range of art industries, eg:
• Working as an artist, creating unique artefacts for exhibition and commission
• Art professional within museums and galleries
• Education
• Running workshops, such as exhibiting artist/designer/ maker
• Art professional e.g. curator/ arts administrator
• Educator – requires further postgraduate study.

First Year at a Glance
• Introduction to Art History: history of western art; modernity and visual culture; seminars including site visits to local galleries and cultural institutes
• Introduction to Art Processes: learning to use and express yourself in a variety of media, ceramics, glass, textiles, and one of the following: print, photography, drawing, digital media
• Formal Visual Elements: making of 3D and sculptural pieces: making & constructing objects and the relationship these objects have to the space they exist within
• Drawing: developing a personal understanding of visual language through objective/non-objective drawing
• Introduction to Studio: explore ideas through a range of materials, combined with specific workshops in the fundamental processes of ceramics, glass and textiles
• IT for Artists: provides the learner with a foundation in IT as it relates to visual arts practice
Creative Digital Media (Honours)
Meán Dhigiteacha Chrurthaiteacha (Onóiracha)

Application: CAO
CAO Code: MT 824
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Creative Digital Media
Duration: 4 Years (8 Semesters)
Places: 40
Location: MTU Bishopstown Campus, Cork

Overview
Creative digital media combines the creativity of art and design with the skills and knowledge of computer technologies and programming to create interactive digital media products. Creative digital media comes in many different formats. It can be almost anything you can hear or see like text, image, music, sound, video, film, animation, and more. By combining media, content and interactivity, those interested in creative digital media can take on and work with a variety of media forms to get their content to communicate across a variety of platforms and in some cases perform interactive experiences.

You will be introduced to the most up-to-date design and media industry software and hardware. The course will also support the development of contemporary critical awareness to assist you in your academic studies. You will be given the opportunity to develop your presentation skills and learn to create innovative creative digital media projects. You will produce projects in digital media design, video production, music technology, computer programming, digital marketing, media business, animation, virtual reality, user experience, user interface design, digital culture and much more!

The work placement (minimum of 13 weeks in year 3) is supported by a member of academic staff in MTU together with a workplace mentor. The aim of the work placement is to introduce the student to structured employment in a relevant work sector and to develop the student’s understanding of the organisation, its procedures and technology. Students may also choose to study abroad on an Erasmus exchange instead of the work placement.

Further Studies
Suitably qualified graduates are eligible to apply for:
- MA in Public Relations with New Media
- MA in Journalism and Digital Content Creation
- MA in E-Learning Design and Development
- MA by Research

For details, see crawford.mtu.ie

Question Time
What is the difference between Visual Communications (MT 823) and Creative Digital Media (MT 824)?
Visual Communications is a graphic design course that focuses on creative design for the printed and electronic media.

Creative Digital Media investigates a broader spectrum and focuses on areas such as digital media design, digital media technology, video production, music technology, computer programming, digital marketing, media business, animation, virtual reality, user experience (UX), user interface design (UI), digital culture and much more!

Is the Creative Digital Media course diverse?
Yes, it is a diverse course, allowing you to study in a variety of disciplines for example, music technology, electronics, digital technology, computing, marketing and business and much more. You will work in cutting edge areas such as virtual and augmented reality and tangible computing.

Contact Information
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Career Opportunities
Areas of specialist employment include:
- E-learning
- Game and app development
- 3D design
- Animation
- Interactive programming
- Audio technology
- Video and Film Producer
- User Experience Design
- Virtual Reality

Many graduates also continue to the higher diploma and/or master level to progress their career.

First Year at a Glance
- Web Design Basics: interactive web design – HTML and CSS
- Moving Image & Sound: introduction to the theories and practical application of time-based AV media production
- Creative & Enterprise: the study of business systems, operations and enterprise. Learning communication and business writing skills
- Design Basics: visual design solutions for basic media design problems
- Introduction to Digital Media: knowledge and practical use of digital media formats and devices
- Media Group Project: projects involving actual or virtual scenarios, simple games, animations, and video and audio for interactive applications
- Project Management: this module introduces students to the theory and practice of project management
- Introduction to AV Technology: the study of audio and video technology – audio video recording, storage and editing equipment and processes
- Interaction & Media: developing content for web browsers, interactive media players
- Electives include: Film Language, Media Design; Animation Principles, and Interface Design
Fine Art (Honours)
Mhínealaín (Onóiracha)

Application: CAO (restricted)
CAO Code: MT 821
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Fine Art
Duration: 4 Years (8 Semesters)
Places: 45
Location: MTU Crawford College of Art & Design, Sharman Crawford Street, Cork

Overview
This studio-based programme prepares students for the professional world of contemporary art; learning how to make, experiment, research and critique art. Students will explore and engage with: painting, drawing, sculpture, print, photography, performance, sound, video, and digital media in varied contexts. Students are encouraged to experiment with a wide range of media in order to develop their individual art practice.

The course has an emphasis on individual creative development. Students are introduced to the skills and philosophies of the practicing artist. The course supports the development of studio practice enabling students to position their artwork in terms of art history and contemporary critical thought.

Students can choose from a wide range of media including: painting, sculpture, photography, film, video, digital media, sound, print, performance, and/or drawing, and will be trained in the processes and facilities available in the College’s excellently equipped workshops.

Fine Art offers very varied career paths. The course aims to instill individualism and independence preparing students for active careers in the visual arts or for further study to master’s degree level.

Further Studies
Suitably qualified graduates are eligible to apply for:
• Professional Master of Education (Art and Design)
• MA in Art Therapy
• MA in Art & Process
• MA in Journalism and Digital Content Creation
• MA in Public Relations with New Media
• MA in E-learning Design and Development
• MA by Research
• PhD

For details, see crawford.mtu.ie

Question Time
What are the application deadlines?
The deadline for applicants applying through the CAO is 1st February (5.15pm), after which they will receive an invitation to submit their portfolio for assessment in March.

MTU CCAD will accept applications from mature applicants up to the 1st May (5.15pm).

Is there a late application facility?
It is very important to note that the CAO Change of Mind facility does not apply to restricted access courses such as MT 821. You can change the order of your CAO choices but you cannot add on this course if you haven’t listed it already on your CAO application before the 1st February at 5.15pm.

I might like to go on an Erasmus programme, is this possible with this course?
Yes, the Crawford has links with many European colleges and facilitate students to exchange on Erasmus programmes annually.

Is there specialism within this course e.g. Fine Art Print?
This programme offers students the opportunity to work across a range of media or specialise in their chosen media: painting, drawing, photography, sculpture, film and performance.

Is there any written exam?
There are no formal (sit-down) exams. However, there are many academic modules where assessment is in essay, report, seminar paper/thesis format.

Does the College provide all the materials for coursework?
We have stores in the College providing papers, canvas, paint, clay, inks etc. where students can purchase materials.

Contact Information
Trish Brennan
T: +353 (0)21 433 5200
E: Crawford.enquiries@mtu.ie

Career Opportunities
Graduates may develop professional careers in areas such as: artist practice; arts education; arts administration & management; curation; community arts; and art criticism.

Many graduates also continue to the higher diploma and/or master level to progress their career.

First Year at a Glance
• Introduction to Art History: history of Western Art; Modernity and visual culture; including seminars and visits to local galleries and arts institutions
• Introduction to Art Processes: learning to use and express yourself in a variety of media including: print, photography, drawing and digital media
• Formal Visual Elements: making of 3D and sculptural pieces; making & constructing objects and the relationship these objects have to the space they exist within
• Drawing: developing a personal understanding of visual language through objective/non-objective drawing
• Fine Art Studio: the initiation and application of visual research strategies towards the making and presentation a personal body of work
• Art in Context: introduction to art when working in a broad, social, cultural, and environmental context

www.mtu.ie/MT821

Entry 2022
MINIMUM LEAVING CERTIFICATE REQUIREMENTS

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>SUBJECTS</th>
<th>MATHS</th>
<th>ENGLISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/H7</td>
<td>H5</td>
<td>NOTE 1</td>
<td>06/H7</td>
</tr>
</tbody>
</table>

6 SUBJECTS

NOTE 1: There is no specific requirement for Maths. A Grade F2 or higher in foundation level Maths is recognised as one of the subjects for entry.
Photography with New Media (Honours)
Grianghrafadóireacht leis na Meáin Nua (Onórachá)

Application: CAO (restricted)
CAO Code: MT 822
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Photography with New Media
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Crawford College of Art and Design, Envision Centre, Sober Lane, Cork

Overview
This programme has a distinct professional emphasis. You will develop the creative, technical and critical analysis skills required for the photography, video and media industry. You will learn how to use a wide range of traditional and emerging photography, video and media equipment, and technologies. You will be using the latest and most up-to-date lens-based software and hardware.

You will gain first-hand experience of the realities of the photography profession through an extended work placement in year 3 for a minimum of 13 weeks. The placement will prepare you to work as a highly skilled producer of still and moving images. The work placement aims to give students the opportunity to directly experience the work practices and procedures in a photography and video related work environment in a local, national or international setting. It allows the student to observe the application of theoretical knowledge and practical skills gained on the programme. The student is supported by a MTU member of academic staff along with a workplace mentor.

In the final year, there is a capstone module which provides the opportunity to further develop the issues, themes and directions that are evident and emerging in the student’s practice. Students assume professional responsibilities and work practices, operating to a detailed plan, adapting the project aims and schedule where necessary during the creative process. Students are required to present their project at different stages of development through visual and oral presentations.

Further Studies
Suitably qualified graduates are eligible to apply for
• Professional Master of Education (Art and Design)
• MA in Art & Process
• MA in Journalism and Digital Content Creation
• MA in Public Relations with New Media
• MA in E-learning Design and Development
• MA by Research
• PhD

For details, see crawford.mtu.ie

Question Time
What are the application deadlines?
The deadline for applicants applying through the CAO is 1st February (5.15pm), after which they will receive an invitation to submit their portfolio for assessment in March.

MTU CCAD will accept applications from mature applicants up to the 1st May (5.15pm).

Is there a late application facility?
It is very important to note that the CAO Change of Mind facility does not apply to restricted access courses such as MT 822. You can change the order of your CAO choices but you cannot add on this course if you haven’t listed it already on your CAO application before the 1st February at 5.15pm.

Is there specific camera equipment that I will need for the course?
Yes, it would be essential for you to own a digital SLR camera, for example a Canon 500D.

Where is the programme based?
The programme is based at the Envision Centre, which is part of the Crawford College of Art & Design at Sober Lane, adjacent to Sullivan’s Quay, Cork.

Contact Information
Albert Walsh
T: +353 (0)21 433 5200
E: albert.walsh@mtu.ie

Career Opportunities
The photography, video and media industry covers a diverse range of professional activity. There is hardly a social activity that does not require the services of a photographer or videographer in some way, and image industry professionals all acknowledge the shift that requires them to be proficient in both still and moving image capture, as well as in all of the associated postproduction work. Graduates can also go on to further studies to master degree level and PhD.

First Year at a Glance
• The Moving Image: introduction to media practice (moving images), approaches to video, navigating digital imaging software, storing and saving files
• Photography and Image Capture: introduction to the medium of photography and imaging acquisition, capture and processing, photographic skills, concepts and practices
• Visual Literacy: introduction to the principles of visual literacy
• Exploring Light: The creative and expressive uses and control of available light in photography and video
• Photography Histories: the historical milestones in the evolution of photography as a visual medium
• Working with Images: entire and efficient workflow in digital photography and video, developing effective photography and video skills and efficient working practices through the stages of pre-production, production and post-production
• Investigating Place: exploring the concept of place within photography and video
• Electives include: Time Based Media Design; Film Language; and Animation Principles

www.mtu.ie/MT822
TV, Radio and New Media (Honours)
Teilifís, Raidió agus na Meáin Nua (Onóracha)

Application: CAO
CAO Code: MT 812
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in TV, Radio and New Media
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Kerry North Campus, Kerry

Overview
This course gives you everything you need to launch a successful career in the broadcasting industry. You develop traditional radio and TV skills and get a thorough understanding of how new technologies are used in the world of communication and media. We encourage creativity and innovation through different methods of programme delivery and assessment, including interactive online learning, group discussions, critique sessions, workshops, practicals, and studio work.

Project work is a key component of what we do, and we supplement our learning materials with presentations from visiting industry experts. The industry work placement is a vital component of the degree and takes place in semester six (year three). Alternatively, you can work as part of an internal design team, creating digital content.

Our state-of-the-art Digital Media Centre (DMC) features a TV studio, a radio studio, multimedia editing suites, an audio/video library suite, a dedicated recording studio and common project work and exhibition space. We also have dedicated high-spec multimedia Mac/PC labs, running the latest operating systems and the most recent industry-standard versions of the relevant software.

Further Studies
Suitably qualified Level 8 graduates are eligible to progress to taught master programmes or to research at either master or PhD level.

Contact Information
Department of Creative Media and Information Technology
T: +353 (0)66 719 1659
E: creativemediakerry@mtu.ie

Career Opportunities
Our graduates work in television, film and video production in a variety of roles including: researchers; script-writers; lighting, camera and sound operators; video editors; motion graphics producers and colourists; radio production co-ordinators; audio editors; technical support; producers; executive producers; station managers; programme controllers; social media and web communications managers; bloggers; vloggers; content creators for digital publishers and virtual reality platforms.

First Year at a Glance
- Sound and Digital Audio: develops recording, editing and mixing skills to a basic level
- New Media Concepts: introduces students to the history, development and uses of media (radio/film/games/tv/multimedia)
- Media Principles: examines the history and uses of broadcasting and is concerned with the psychology of visual and auditory communication
- Social Media Tools and Enterprise Studies: fosters digital media and entrepreneurial skills as well as promoting communication, innovation and creativity
- Photography: provides a conceptual framework and a set of practical skills which facilitates the independent expression of communicative and creative photographic imagery
- Audio Production: introduces industry best practice in audio production
- Film and Narrative Studies: introduces narrative structures and the history and forms of film – as film/cinema/multimedia – and to the wider philosophical issues involved in the study of works of art

www.mtu.ie/MT812

SCORE THE NECESSARY CAO POINTS AND MEET MINIMUM LEAVING CERTIFICATE REQUIREMENTS & SUBJECTS

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>SUBJECTS</th>
<th>MATHS</th>
<th>ENGLISH</th>
</tr>
</thead>
<tbody>
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<td>06/H7</td>
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</tbody>
</table>

6 SUBJECTS

Application: CAO
CAO Code: MT 812
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in TV, Radio and New Media
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Kerry North Campus, Kerry
TV, Radio and New Media
Teilifís, Raidió agus na Meáin Nua

Application: CAO
CAO Code: MT 712
NFQ Level: 7
Award Title: Bachelor of Arts in TV, Radio and New Media
Duration: 3 Years (6 Semesters)
Places: 24
Location: MTU Kerry North Campus, Kerry

Overview
This course gives you everything you need to launch a successful career in the broadcasting industry. You develop traditional radio and TV skills and get a thorough understanding of how new technologies are used in the world of communication and media. We encourage creativity and innovation through different methods of programme delivery and assessment, including interactive online learning, group discussions, critique sessions, workshops, practicals and studio work.

Project work is a key component of what we do, and we supplement our learning materials with presentations from visiting industry experts. The industry work placement is a vital component of the degree and takes place in semester six (year three). Alternatively, you can work as part of an internal design team, creating digital content.

Our state-of-the-art Digital Media Centre (DMC) features a TV studio, a radio studio, multimedia editing suites, an audio/video library suite, a dedicated recording studio and common project work and exhibition space. We also have dedicated high-spec multimedia Mac/PC labs, running the latest operating systems and the most recent industry-standard versions of the relevant software.

Further Studies
Suitably qualified graduates are eligible to progress to year 4 (final year) • BSc (Honours) in TV, Radio and New Media

Contact Information
Department of Creative Media and Information Technology
T: +353 (0)66 719 1659
E: creativemediakerry@mtu.ie

Career Opportunities
Our graduates work in television, film and video production in a variety of roles including: researchers; script-writers; lighting, camera and sound operators; video editors; motion graphics producers and colourists; radio production co-ordinators; audio editors; technical support; producers; executive producers; station managers; programme controllers; social media and web communications managers; bloggers; vloggers; content creators for digital publishers and virtual reality platforms.

First Year at a Glance
• Sound and Digital Audio: develops recording, editing and mixing skills to a basic level
• New Media Concepts: introduces students to the history, development and uses of media (radio/film/games/tv/multimedia)
• Media Principles: examines the history and uses of broadcasting and is concerned with the psychology of visual and auditory communication
• Social Media Tools and Enterprise Studies: fosters digital media and entrepreneurial skills as well as promoting communication, innovation and creativity
• Photography: provides a conceptual framework and a set of practical skills which facilitates the independent expression of communicative and creative photographic imagery
• Audio Production: introduces industry best practice in audio production
• Film and Narrative Studies: introduces narrative structures and the history and forms of film – as film/cinema/multimedia – and to the wider philosophical issues involved in the study of works of art

www.mtu.ie/MT712
Visual Communications (Honours)
Cumarsáid Físe (Onóracha)

Application: CAO (restricted)
CAO Code: MT 823
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Visual Communications
Duration: 4 Years (8 Semesters)
Places: 30
Location: MTU Bishopstown Campus, Cork

Overview
Visual Communication is the art of problem-solving and communication through the use of type, space, and image. It presents the idea that a graphic message has the power to inform, educate, or persuade a person or audience. It can be presented as a still image, or motion graphics, including sound, and in some cases, interactive activity.

Visual Communications, also known as Graphic Design, encourages you to think creatively and produce new design ideas and concepts. From pitching a design brief to a client, to producing graphics, a new brand, layout for interface or illustration for a book, you will go on a journey to understand who you are as a designer.

You will be introduced to the most up-to-date design and media industry software and hardware. The course will also support the development of critical awareness to assist you in your academic studies. You will be given the opportunity to develop your presentation skills and learn to create innovative approaches to solve design problems.

You will produce artwork for print, interface design, motion graphics, illustration, photography, typography, packaging, branding, advertising campaigns and much more!

Further Studies
Suitably qualified graduates are eligible to apply for:
• Professional Master of Education (Art and Design)
• MA in Journalism and Digital Content Creation
• MA in Public Relations with New Media
• MA in E-Learning Design and Development
• MA by Research
• PhD

For details, see crawford.mtu.ie

Career Opportunities

The course will equip you to work in the exciting world of design. There are jobs in graphic design, advertising and creative digital media in which you can be employed. After graduating you have the opportunity to start up your own business. Graduates can also go on to further studies to master degree level and PhD.

Careers: graphic design; advertising; branding; illustrator; photographer; web designer; motion graphics; and creative director.

First Year at a Glance
• Design Principles & Practice: applying creative thinking, ideas generation, design methods and techniques to create graphic design project solutions
• Introduction to Image Making: creating images across a wide range of media through drawing practices and techniques
• Visual Culture: the theory of the imagery in modern society, with a particular emphasis on visual communication
• Typography: basic language and principles of typography
• Cultural and Organisation Theory: the study of design culture, and business
• Print Making: experimental print techniques and skills
• Creative Technology: applying design software for graphic design
• Electives: Information Graphics and Creative Digital Media

Contact Information
Dr Gwen Lettis
T: +353 (0)21 433 5810
E: gwen.lettis@mtu.ie

www.mtu.ie/MT823

Entry 2022
MINIMUM LEAVING CERTIFICATE REQUIREMENTS & SUBJECTS

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>SUBJECTS</th>
<th>MATHS GRADE</th>
<th>ENGLISH OR IRISH GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2</td>
<td>NOTE 1</td>
<td>O6/H7</td>
</tr>
</tbody>
</table>

PORTFOLIO IS REQUIRED
For details, visit crawford.mtu.ie

Offers are made based on the portfolio assessment results to applicants who meet the academic minimum entry requirements as outlined above.

NOTE 1: There is no specific requirement for Maths. A Grade F2 or higher in foundation level Maths is recognised as one of the subjects for entry.
Entry 2022
Career Opportunities
Music, Theatre, and Drama
<table>
<thead>
<tr>
<th>CAO Code</th>
<th>NFQ Level</th>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 936</td>
<td>8</td>
<td>Bachelor of Music (Honours)</td>
<td>176</td>
</tr>
<tr>
<td>MT 938</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Musical Theatre</td>
<td>177</td>
</tr>
<tr>
<td>MT 937</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Popular Music</td>
<td>178</td>
</tr>
<tr>
<td>MT 939</td>
<td>8</td>
<td>Bachelor of Arts (Honours) in Theatre and Drama Studies</td>
<td>179</td>
</tr>
</tbody>
</table>
Music (Honours)
Ceol (Onórracha)

Application: CAO (restricted)
CAO Code: MT 936
NFQ Level: 8
Award Title: Bachelor of Music (Honours)
Duration: 4 Years (8 Semesters)
Places: 30
Location: MTU Cork School of Music, Union Quay, Cork

Overview
Music is the art or science of combining sounds and silence in order to produce a form that is satisfying and emotionally stimulating. The study of music involves the enhancement of instrumental skills, theoretical learning and understanding, history, exploration of the social and therapeutic benefits of music making and listening, conducting, composition, orchestration, psychology, education, and use of technology.

There are three mandatory skill-based modules which are taken in each semester. The remaining electives may be selected from a wide choice of modules: Community Music, Composition, Conducting, Counterpoint, Education, History, Music Technology, Music Therapy, Orchestration, Performance, and Research.

Instrumental tuition is delivered in one-to-one lessons according to best international practice. Other modules are delivered across a variety of labs, lectures, tutorials and workshops.

Further Studies
Suitably qualified graduates may apply either to undertake research (leading to the award of a MA and/or PhD), or to follow a taught master’s programme in either Music (Performance or Composition or Conducting) or Music & Technology. For details, see csm.mtu.ie

Contact Information
The Administrator
T: +353 (0)21 480 7307
E: csm.infoCork@mtu.ie

Question Time
Do I need to have Leaving Certificate Music? Leaving Certificate Music is not an admission requirement. This is a restricted access course, you need to pass an entrance test and then you will be placed on a ranked list based on your combined marks from the entrance test.

Do I need to be able to read music? Yes, you need to be able to read music notation to a reasonable standard.

Can I apply if I have never completed a grade exam? It is not necessary to have actually completed grade examinations. The audition result is based on what the examination panel hear on the day.

Is there a late application facility? Yes, but only if you have applied through the CAO before the 1st February and have been auditioned and assessed for the course.

Are there any other special requirements? This is a Restricted Access course and all applicants must sit the entrance test. The provisional date for the entrance test is Saturday 9th April 2022.

Are past test papers available? Yes, you can access them online: csm.mtu.ie/bmus-bachelor-of-music or request one by post from the CSM’s Administrator, Union Quay, Cork, to check that you can meet the requirements of the practical, aural, and written elements.

Can I defer the results of my entrance test from one year to the next? Candidates are not allowed to defer the results of the entrance test.

Are there any scholarships available? An entrance scholarship of €1,000 will be awarded to a first year BMus entrant based on their Entrance Test.

Career Opportunities
There are many employment opportunities for music graduates apart from the obvious ones of performing and teaching. This course also enables students to develop the skills necessary for a career as a music/arts administrator, music librarian, conductor of amateur bands/choirs/orchestras/musical shows, music animator, music publicist/promoter, and music editor.

However, taking an honours degree in music does not mean that a graduate is restricted to a music driven career for the rest of their life. In addition, a growing number of employers outside the specific music business favour music graduates because of the combination of intellectual training, digital skills, interpersonal sensitivity and greatly enhanced general response rates represented by a musical training.

Careers: solo and ensemble performance; music teaching; music production and recording; film, video and TV scoring; conducting; arts administration; music therapy; and community music.

First Year at a Glance
A comprehensive grounding in musicianship and technical skills, encompassing individual instrumental tuition and both small and large ensemble participation, aligned with music literacy and aural development.

The programme also offers the opportunity to engage with music technology and team building activities.
Musical Theatre (Honours)
Amharclannaíocht an Cheoil (Onóracha)

Application: CAO (restricted)
CAO Code: MT 938
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Musical Theatre
Duration: 4 Years (8 Semesters)
Places: 24
Location: MTU Cork School of Music, Union Quay, Cork

Overview
Musical Theatre is the theatrical genre where song and music is an integral part of the content, along with drama and, usually, dance. Performers are skilled at all three and must possess a quantum of individual talent. This is an intensively hands-on course, aimed at talented students who already have a basic level of skill in the three ‘triple-threat’ areas: singing, dancing and acting. The course combines personal skills training with group and teamwork, expressed through annual public performances in professional theatres. As well as working with highly qualified core staff, the students will meet professionals from all musical theatre fields, following up-to-the-minute trends and making contacts and networks for life.

Complementary electives such as Lighting Design, Sound Design, Scriptwriting, Music Technology, Drama and Music Therapy can lead to alternative career pathways and a portfolio career.

Capstone module – in addition to the final year musical production, each student can elect to do a solo performance module for double credit, expressing a particular talent and level of skill in a core subject.

Work placement – in third year, each student spends 100 hours working in an appropriate theatrical environment to get a taste of the specific work context they will be entering.

Further Studies
Graduates will be eligible to pursue performance or research masters in a chosen area for which they are deemed suitable. For details, see csm.mtu.ie

Contact Information
The Administrator
T: +353 (0)21 480 7307
E: csm.infoCork@mtu.ie

Question Time
When I graduate from this degree, what necessary steps do I need to take to be qualified to teach?
This degree is not aimed at teacher training but may provide a gateway to postgraduate teacher training qualifications.

Can I avail of the Erasmus programme?
Yes

What elective modules are available?

Do I need to be able to read music?
It would be helpful but is not essential.

Is there a late application facility?
Yes, all applications are accepted up to the 1st May. However, CSM would prefer if special category applicants would apply by the 1st February as there is extra documentation required with such applicants.

Can I use the CAO Change of Mind facility?
Yes, but only if you have applied through CAO before the 1st February and have been auditioned and assessed for the course.

Are there any other special requirements?
This is a restricted access course and all applicants must sit the CSM’s assessment test. The provisional date for the assessment test Thursday 7th to Saturday 9th April, 2022.

Are sample assessment papers available?
The assessments are all practical, no written work is required.

Can I defer the results of my assessment test from one year to the next?
Candidates are not allowed to defer the results of the assessment test.

Are there any scholarships available?
An entrance scholarship of €1,000 will be awarded to a first year BAMT entrant based on their audition.

Career Opportunities
Graduates will have the ability to pursue careers in the performing arts as musical theatre performer, producer, designer, and choreographer, and arts administrator.

First Year at a Glance
Individual and group work on singing, acting classes, dance classes, musical theatre history & context, ensemble performance, fitness classes and musical theory are supplemented by a practical introduction to the theatre and its technology – including stage pass.

www.mtu.ie/MT938
Popular Music (Honours)
Ceol Móréilimh (Onóracha)

Application: CAO (restricted)
CAO Code: MT 937
NFO Level: 8
Award Title: Bachelor of Arts (Honours) in Popular Music
Duration: 4 Years (8 Semesters)
Places: 40
Location: MTU Cork School of Music, Union Quay, Cork

Overview
Popular Music is the music heard around the clock on radio, TV, in the theatres, clubs and venues all around the country. We use it to encompass all of the sub-genres: rock, country, soul, blues, commercial, modern musical theatre, electronic music, dance music, and so on. This programme of study offers five streams of study, Electric Bass Guitar or Drums or Electric Guitar or Keyboards or Voice.

Each student is assigned a matched group of peers to form a small popular ensemble, this becomes the centre of the learning experience. Lectures, classes, and music technology labs provide supporting skills to the core training in performance.

Instrumental Tuition
Ensembles – everything from rock, pop, hip hop, blues, soul, metal, jazz, salsa, disco, electronic, funk, ska, reggae, etc.;
Musicanship and Harmony – play by ear, harmonise, notate your favourite songs and solos;
Music Technology – live sound and PA, studio engineering, computer based music applications including ProTools and Logic Studio;
Song Writing – mentored guidance and practical experience in realising your own composition;
Arranging and Musical Direction – coordinate, arrange for, and direct a group of your musical peers.

Additionally, BAPM students will have the opportunity to devise and develop personal live and recorded music projects. Along with their BMus counterparts, BAPM students will be introduced to community music and music therapy as potential pathways. Students will also have access to specialist modules embracing arts marketing, professional promotion, and business for artist practitioners and career development.

Contact Information
The Administrator
T: + 353 (0)21 480 7307
E: csm.infoCork@mtu.ie

Further Studies
Suitably qualified graduates may apply either to undertake research (leading to the award of an MA and/or PhD), or to follow a taught master’s programme in either Music (Performance or Composition) or Music & Technology. For details, see csm.mtu.ie

Question Time
Are there any other special requirements?
This is a restricted access course and all applicants must sit the CSM’s BA (Honours) in Popular Music degree course entrance test. The provisional dates for the entrance test are from Thursday 7th to Saturday 9th April, 2022.

Are sample test papers available?
Yes, you can access them online at csm.mtu.ie/bapm-applicant-assessment-form, or request one by post from the CSM’s Administrator, Union Quay, Cork, to check that you can meet the requirements of the practical, aural, and written elements.

Can I defer the results of my entrance test from one year to the next?
Candidates are not allowed to defer the results of the entrance test.

Is there a late application facility?
Yes, all applications are accepted up to the 1st May. However, CSM would prefer if special category applicants would apply by the 1st February as there is special category applicants must sit the CSM’s entrance test.

Are there any scholarships available?
An entrance scholarship of €1,000 will be awarded to a first year BAPM entrant based on their Entrance Test.

Career Opportunities
There are many employment opportunities for popular music graduates apart from the obvious one of performing. Composition, music for multimedia, song writing, playing in recording sessions, in theatrical productions and TV. Outside of this field is the associated area of promotion, festival and arts administration, and the business side of the industry.

However, taking an honours degree in popular music does not mean that a graduate is restricted to a music driven career for the rest of their life. In addition, a growing number of employers outside the specific music business favour music graduates because of the combination of intellectual training, digital skills, interpersonal sensitivity and greatly enhanced general response rates represented by a musical training.

First Year at a Glance
• Contextual Harmony: a foundation in harmonic and notational skills required of the popular music professional and is delivered in the context of popular music history
• Popular Musicanship: intensive directed study in aural skills and an auxiliary instrument. For non-keyboard players the auxiliary instrument is keyboard, for keyboard players the auxiliary instrument is drum kit
• Popular Ensemble Workshop: practical performance-based engagement with popular music on the student’s principal instrument – both in full band and small ensemble configurations
• Music & Technology: recording studio, its equipment and procedures – while also developing the necessary skill set for the practical operation of live sound equipment
Theatre & Drama Studies (Honours)
Staidéar Amharclannaíochta agus Drámaíochta (Onóracha)

Application: CAO (restricted)
CAO Code: MT 939
NFQ Level: 8
Award Title: Bachelor of Arts (Honours) in Theatre & Drama Studies
Duration: 4 Years (8 Semesters)
Places: 20
Location: MTU Cork School of Music, Union Quay, Cork

Overview
Theatre & Drama Studies is a practice-based course for those intending to pursue a career in theatre or dramatic arts. Individual acting skills, voice production, ensemble performance and related theatre design and technical audio visual studies equip the student to work in live theatre, broadcast media or community-based arts facilitation.

This honours degree course centres on theatre performance training, with supporting modules to facilitate wider career options. The course aims to produce artists that are physically and vocally flexible and intellectually alive and curious.

Alongside core disciplines of voice, movement and acting studies, you will develop a range of creative and practical techniques and transferable skills that will encourage you to be an independent thinking and motivated artist, an articulate and reflective practitioner equipped to succeed in a competitive profession. Small group and large ensemble practical and workshop sessions are balanced with lectures, tutorials and field-based studies.

In the second semester of year 3, each student will have a supervised work placement in an appropriate professional environment. The work placement is done as a complete module with 84 hours work contact to be done in a minimum of 8 weeks.

Capstone Module: In the fourth and final year, each student works on an integrated production. As the emphasis throughout the course is on performance, this allows an involvement at a professional level as a theatre practitioner as the culmination of the four years’ work.

Further Studies
Graduates will be able to pursue any level 9 course for which a drama degree is relevant and recognised – including postgraduate education programmes. Postgraduate study in education, drama therapy and arts administration are examples of what are possible pathways. For details, see csm.mtu.ie

Question Time
When I graduate from this degree, what necessary steps do I need to take to be qualified to teach?
Graduates may apply for the Professional Masters in Education courses that lead to certification as primary or second-level teachers. They may also apply for further education or third-level positions that require a level-8 drama qualification.

Are there early assessment procedures?
Yes, the assessment test will provisionally take place at the MTU Cork School of Music, Friday 9th & Saturday 9th April, 2022.

Are sample assessment papers available?
No. There is no written work required for the entrance assessment.

Can I avail of the Erasmus programme?
Yes, in Year 3, students may avail of the Erasmus Scheme to study abroad in a partner institution.

Is there a late application facility?
Yes, all applications are accepted up to the 1st May. However, CSM would prefer if special category applicants would apply by the 1st February as there is extra documentation required with such applicants.

Can I use the CAO Change of Mind facility?
Yes, but only if you have applied through CAO before the 1st February and have been auditioned and assessed for the course.

Can I defer the results of my assessment test from one year to the next?
Candidates are not allowed to defer the results of the assessment test.

Are there any scholarships available?
An entrance scholarship of €1,000 will be awarded to a first year BATDS entrant based on their assessment test.

Contact Information
The Administrator
T: +353 (0)21 480 7307
E csm.infoCork@mtu.ie

Career Opportunities
Graduates will have the ability to pursue careers in the performing arts, education, arts administration, community arts, film and television media.

• Careers: actor; director/producer; theatre designer; theatre technician; drama teaching; community arts; theatre in education; arts administration; and film and television.

First Year at a Glance
• Performance Ensemble: performance studies focusing on the work of Stanislavski and Chekhov
• Voice Studies: freeing and strengthening the speaking voice and working with texts
• Theatre History & Text: theatre history from the age of Greek theatre to that of Shakespeare
• Theatre Lab: movement and performance, focusing on improvisation and the work of Le Coq
• Theatre Technology: an introduction to theatre lighting and sound
• Costume and Make-up: costume study and make-up design

www.mtu.ie/MT939
Apprenticeship Programmes
Introduction 182

Apprenticeship Programmes at MTU

<table>
<thead>
<tr>
<th>Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Mechanics</td>
<td>183</td>
</tr>
<tr>
<td>Carpentry and Joinery</td>
<td>183</td>
</tr>
<tr>
<td>Construction Plant Fitting</td>
<td>183</td>
</tr>
<tr>
<td>Electrical</td>
<td>183</td>
</tr>
<tr>
<td>Mechanical Automation and Maintenance Fitting</td>
<td>183</td>
</tr>
<tr>
<td>Metal Fabrication</td>
<td>183</td>
</tr>
<tr>
<td>Motor Mechanic</td>
<td>184</td>
</tr>
<tr>
<td>Pipefitting</td>
<td>184</td>
</tr>
<tr>
<td>Plastering</td>
<td>184</td>
</tr>
<tr>
<td>Plumbing</td>
<td>184</td>
</tr>
<tr>
<td>Refrigeration and Air-Conditioning</td>
<td>184</td>
</tr>
<tr>
<td>Chef de Partie Apprenticeship (BA in Culinary Arts)</td>
<td>184</td>
</tr>
<tr>
<td>Sous Chef Apprenticeship (BA (Hons) in Culinary Arts)</td>
<td>185</td>
</tr>
<tr>
<td>Logistics Associate</td>
<td>185</td>
</tr>
<tr>
<td>Manufacturing Technician</td>
<td>185</td>
</tr>
<tr>
<td>Manufacturing Engineer</td>
<td>185</td>
</tr>
</tbody>
</table>
Apprenticeship is an exciting and proven way for employers to develop talent for their company and industry. Apprenticeships are designed by industry-led groups, supporting growth and competitiveness.

Apprentices earn while they learn and build valuable work-ready skills in a chosen occupation. Apprenticeships open up exciting and rewarding careers, with learning grounded in the practical experience of undertaking a real job. Apprenticeship is defined as a programme of structured education and training which formally combines and alternates learning in the workplace with learning in an education or training centre. It is a dual system, a blended combination of on-the-job employer-based training and off-the-job training.

**Apprentice Registration**

To be eligible for an apprenticeship, the applicant must be at least 16 years of age and must be employed by an approved employer. For further information on apprenticeships go to www.apprenticeship.ie

Details of current apprenticeship opportunities are advertised locally and nationally by many employers and are often uploaded onto the apprenticeship jobs portal www.apprenticeshipjobs.ie

**Craft Apprenticeships**

A craft apprenticeship will generally last for 4 years, during which time you will spend 3 different periods in off-the-job training. Generally, the first off-the-job training phase will take place in an Education and Training Board (ETB) Training Centre while the subsequent off-the-job training phases will take place in an Institute of Technology or Technological University. The skills you develop will be assessed through on-the-job competence testing as well as off-the-job modular assessment and examinations and, if you complete these assessments successfully, you will be awarded an Advanced Certificate – craft (level 6 on the National Framework of Qualifications).

**Post 2016 Apprenticeships**

MTU offers apprenticeship opportunities across the areas of craft, construction, hospitality and food, and engineering. These programmes are delivered by industry-led consortia and respond to identified needs in a variety of industries. MTU has worked with industry partners and other institutions to develop and deliver these programmes. All apprenticeships come under the governance of SOLAS and funding is provided by the Higher Education Authority (HEA).

**Craft Apprenticeships at MTU**

**Contact Information**

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Dr Daniel Riordan  
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Agricultural Mechanics  
**MTU Kerry South Campus**

Agricultural mechanics are concerned with fault-finding, repair, overhaul and maintenance of farm tractors and farm machinery. These farm machines could include forage harvesters, balers, bale wrappers, mowers, combine harvesters, crop-sprayers, fertiliser distributors, diet feeders, tillage and slurry handling equipment. Their skills overlap with those of other crafts within the motor family of crafts, therefore they are equipped to carry out some repair work on ATVs (All Terrain Vehicle – Quads), light and heavy commercial vehicles, earth moving equipment, forklift trucks and other vehicles. Besides the normal agricultural tractor and machinery garages, some large agricultural contracting firms employ their own agricultural mechanics. MTU is the only Technological University or Institute of Technology in the country which offers craft level apprenticeship courses in agricultural mechanics. Our facilities give apprentices a unique opportunity to experience the state-of-the-art technology currently being employed in the agricultural sector.

Carpentry and Joinery  
**MTU Bishopstown Campus**  
**MTU Kerry South Campus**

The carpenter and joiner cuts, shapes and joins wood and wood-based products using a wide range of hand tools, e.g. hammer, saw, planes and chisels. They also use power tools and machines. Carpenters and joiners use their skills to set out and construct roofs, install floors, stairs and windows, built-in furniture and hang doors. They also manufacture doors, windows, stairs and shopfronts, etc. The carpenter and joiner has to study drawings, perform craft calculations and select materials to meet design requirements. Site work includes the construction of buildings and houses which require first and second fixing, including roofing. The place of work may vary, depending on the type of work done, it could be on site, in a workshop or in a private dwelling.

Construction Plant Fitting  
**MTU Bishopstown Campus**

A construction plant fitter services, diagnoses and resolve technical issues in mobile equipment used in materials handling for the off-road and on-road construction, excavation, mining, forestry and waste management industries. They carry out routine service procedures as recommended by the manufacturers; and diagnose and resolve problems with the operation of the mechanical, hydraulic, pneumatic and electrical systems of machines and equipment such as tracked excavators, forklifts, and cranes. MTU is the only Technological University or Institute of Technology in the country which offers craft level apprenticeship courses in construction plant fitting.

Electrical  
**MTU Bishopstown Campus**  
**MTU Kerry South Campus**

On completion of this four-year apprenticeship, you will become a fully qualified electrician, with a QQI Level 6 Advanced Certificate Craft – Electrical.

As an electrician you will be involved in the installation, commissioning, testing and maintenance of various wiring systems and services in domestic, commercial and industrial applications. Your work will range from wiring domestic houses and retail units, to more complex systems involving process control and maintenance in industrial plants, hospitals and power stations. Electricians also service, maintain and repair electrical equipment, both domestic and industrial. If you are employed by the Electricity Supply Board (ESB) you will be working on electrical power supply and distribution.

Electricians employed by electrical contractors are usually engaged in installation of lighting, heating and power equipment and the repair of existing equipment and appliances. If you work in industrial employment you will generally be engaged in the maintenance and repair of factory plant, machinery and generating equipment. Many apprentices use their apprenticeship qualification as a platform to launch careers such as engineers, managers, owners of businesses, teachers and instructors amongst others.

Mechanical Automation and Maintenance Fitting (MAMF)  
**MTU Bishopstown Campus**

A mechanical automation and maintenance fitter will be involved in plant and machinery installation; maintenance and repairs; replacement of broken or working parts; adjustment; servicing and checking components; and equipment component replacement. A fitter will also fabricate parts using machine tools.

Metal Fabrication  
**MTU Bishopstown Campus**

A metal fabricator will be involved in the installation and manufacture of a range of metallic systems to include pressure vessels; tank and boiler manufacture; structural steel systems; plate steel systems and piping systems. The job entails the reading of drawings and working with materials such as low carbon steel, stainless steel, alloy steel and aluminium. A metal fabricator uses skills such as measuring, marking out, cutting and welding materials using different processes and assembly techniques. A metal fabricator may also work outdoors and may be required to work at heights.
Motor Mechanic
MTU Bishopstown Campus
A motor mechanic is responsible for the servicing, maintenance and fault diagnosis of light passenger cars and light commercial vehicles. Motor mechanics carry out routine service procedures as recommended by the vehicle manufacturer, as well as diagnosing and resolving problems with the operation of the mechanical and electrical systems of vehicles. Motor mechanics are also involved in examining and preparing vehicles for the National Car Test (NCT) or the Commercial Vehicle Road Worthiness Test (CVRT).

Pipefitting
MTU Bishopstown Campus
Pipefitters install, repair and maintain high and low-pressure pipe systems used in commercial and industrial installations. You will work on piping systems that carry all kinds of liquids, gaseous and solid materials, and provide a wide range of services including welding and fabrication in a variety of industries. MTU is the only Technological University or Institute of Technology in the country which offers craft level apprenticeship courses in pipefitting.

Plastering
MTU Bishopstown Campus
A plasterer is involved in the preparation and application of protective covering to interior and exterior building surfaces. This work can also involve applying decorative marking and finishes to walls such as pebbledash to achieve a required finish. A plasterer may be required to lay the finishing surface of cement floors for houses, factories and garages. Fibrous plasterers may work from architects’ designs or copy pieces of plasterwork from artists’ drawings or from photographs to produce ornamental work. MTU is the only Technological University or Institute of Technology in the country which offers craft level apprenticeship courses in plastering.

Plumbing
MTU Bishopstown Campus
A plumber installs, maintains and repairs systems of water supply, drainage and central heating in houses and other locations. These systems include hot and cold-water systems, sanitary services, heating systems and pipework and controls for gas supply. Plumbers carry out maintenance and repair work including routine servicing and emergency repairs, which involves finding faults and replacing or repairing damaged parts, carrying out tests and ensuring that the system works properly. Work on technologies such as gas fired and oil-fired heating systems, under-floor heating, solar, geothermal and biomass heating is also performed by qualified plumbers.

Refrigeration and Air-Conditioning
MTU Bishopstown Campus
A refrigeration and air conditioning craftsperson installs, maintains and repairs all types of refrigeration and air-conditioning equipment and systems. They can work in industries such as domestic, marine, commercial and industrial. They can install, maintain and repair items such as household, hospital, hotel and shop refrigerators, display cabinets, deep freezers, cooling plants, cold rooms and refrigerated transport.

Post 2016 Apprenticeships
Apprenticeships introduced from 2016 on lead to an award between Levels 5-10 on the National Framework of Qualifications. Each apprenticeship programme can be for between 2 and 4 years.

There are a number of models of on-the-job and off-the-job training, as well as different models of delivery and different target groups (including people already in employment). Industry-led groups (consortia), which work with education and training providers and other partners, to oversee the development and roll-out of new apprenticeships.

Post 2016 Apprenticeships at MTU
Chef de Partie Apprenticeship
(Bachelor of Arts in Culinary Arts)
DURATION – 4 YEARS
MTU Bishopstown Campus
MTU Kerry North Campus
A Chef de Partie is trained to
• Deliver advanced culinary skills in a professional kitchen
• Supervise a particular area or station within the kitchen
• Work on their own as well as train Commis Chefs

This programme is designed by industry and academic professionals so the apprentice will learn the skills, knowledge and behaviours necessary for a successful career that will take them anywhere in the world. The Chef de Partie apprenticeship programme is designed to expose participants to a wide range of culinary skills and ideas and allows them to not only learn how to do something, but understand why it is done a certain way. It combines classroom training with hands-on practical skills development in the workplace. Apprentices follow a structured path of learning to build their knowledge and skills from a basic to advanced level. A work-based mentor will monitor and help apprentices to progress through the apprenticeship and they will learn how their college-based learning links to their everyday working environment. Apprentices who successfully complete the Chef De Partie apprenticeship programme will be eligible to progress to the Sous Chef Apprenticeship at Level 8 (see next page).
Advanced Entry Options
Relevant industry experience – assessment of industry experience is by application to the Munster Technological University. Recognition of prior learning is dealt with on an individual basis once an apprentice has started the registration process.

If you are employed as a chef and/or hold previous qualifications, you may be eligible for advanced entry into year 2 or 3 of the programme.

Sous Chef Apprenticeship (Bachelor of Arts (Hons) in Culinary Arts)
DURATION –2 YEARS
MTU Bishoistown Campus
MTU Kerry North Campus

This programme is designed to provide apprentices with knowledge, skills and competencies at an advanced level, to ensure that all aspects of food preparation, production and service are carried out to the highest standard and in accordance with food hygiene regulations, company standards and policies. The programme enables the apprentice to be an effective team leader and production specialist at operational, managerial and technical levels. The programme also focuses on the responsibility of guiding, directing and training team members. Apprentices will be concentrating on areas such as personal development, food innovation, and the capitalisation of market trends and the management of department finances and budgets; all the while endeavouring to exceed customer expectations. It combines classroom training with hands-on practical skills development within the workplace.

Contact Information
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T.J. O’Connor
MTU Kerry North Campus
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E: tj.oconnor@mtu.ie

Logistics Associate
MTU Bishopstown Campus

A logistics associate typically liaises with transportation companies to create a good working relationship. It will involve preparation of invoices for orders and deliveries as part of record keeping measures. Record-keeping of shipping, road and air freight activities, documenting procedures, guidelines and changes in procedures for reference purposes. A logistics associate is responsible for ensuring compliance with customs duties, controls, tariff, international conventions and agreements. Those that successfully complete the programme will be awarded a Level 6 Higher Certificate from MTU.

Contact Information
Niall Morris
MTU Bishoistown Campus
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Manufacturing Technician
MTU Bishoistown Campus

A manufacturing technician provides technical support for manufacturing operations including troubleshooting equipment and process issues, and validation and qualification activities of the manufacturing site. It will be necessary to work with production, operations, engineering support, quality, facilities, and safety to ensure that the engineering activities are completed as per defined project schedule. The job also involves coordinating corrective maintenance activities for production equipment within the manufacturing site. Those that successfully complete the programme will be awarded a Level 6 Higher Certificate from MTU.

Manufacturing Engineer
MTU Bishoistown Campus

A manufacturing engineer facilitates efficient operations within the production area, to optimise existing processes, implement new processes and to ensure that production goals are met. This involves the monitoring of the performance of equipment, machines and tools and correct equipment problems. A manufacturing engineer analyses and solves problems using basic engineering principles leading to new or improved products. It also involves the application of project management methodologies to manage production and product design. Those that successfully complete the programme will be awarded a Level 7 Bachelor of Engineering degree from MTU.

Contact Information
Prof. Ger Kelly
MTU Bishopstown Campus
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MTU offers a range of post-graduate taught and research programmes across the University and is committed to supporting and promoting all aspects of academic formation of postgraduate students through its constituent faculties, colleges, schools, academic units, and research groups and centres. Details of taught postgraduate courses are available at www.mtu.ie or by contacting the relevant head of department.

Postgraduate research is carried out under the supervision and guidance of appropriately qualified members of academic staff of the University. A student may register at MTU for a research programme leading to awards at level 9 (Masters) and level 10 (Doctoral), including doctorates carried out partially or completely in the workplace. MTU provides opportunities for postgraduate study on both a full-time and a part-time basis for individuals with diverse academic, industrial, and professional backgrounds. MTU postgraduate degrees are offered across the domains of science, engineering, nursing, business, humanities, creative and performing arts and media.

Why consider a Postgraduate Degree by Research?
Engaging in a postgraduate degree by research at MTU will provide you with cutting edge analytical skills, supported by the experience of working within a dynamic environment alongside national and international researchers. It is an opportunity to join a community of 250 postgraduate researchers, amongst the largest in the country. You will use leading edge techniques and equipment whilst being supervised to the highest level.

We understand that your career is important to you, so during your time here as a research postgraduate student you will be provided with a suite of supports, from supervision and mentoring to developing a personalised career development plan which will be integrated into your research. Our research teams work closely with industry, so if you see your future career in industry then a research postgraduate qualification from MTU is something for you to seriously consider.

Funding Supports
There may be funding supports available in your area of study. For further information, please contact the head of department for your chosen discipline area.
General Admission Requirements Entry 2022/2023
Introduction .................................................. 190
Leaving Certificate or Equivalent Examination applicant .............................................. 192
Foundation Level Maths ........................................... 194
CAO Points System .............................................. 196
MTU Mathematics Exam ........................................... 198
Mature Applicants .............................................. 200
Special Category Applicants ........................................... 202
Higher Education Access Route (HEAR) .............................................. 204
Disability Access Route to Education (DARE) .............................................. 206
International Applicants ........................................... 208
Specific Entry Requirements for
  • MTU CSM .............................................. 210
  • MTU CCAD .............................................. 212
  • NMCI .............................................. 212
General Information .............................................. 214
ACCS Scheme .............................................. 216
Recognition of Prior Learning .............................................. 216
Garda Vetting .............................................. 216
Iontráil 2022/2023

Ni mór d’iarratasóirí a bheith 16 bliana d’aois nó níos sine an 1 Eanáir den bhliain iontrála ar an gcúrsa. I gcás fhormhór na gcúrsaí, ni mór d’iarratasóirí ar iontráil sa chéad bhliain ar OTM na pointí riachtanacha CAO a bhaint amach agus na riachtanais iontrála ábhartha ista dá gclár staidéir a shásamh. Tá an fhaisnéis iontrála seo a leanas roinnte ina ceithre catagóir

• Iarratasóirí ardteistiméireachta nó scrúdaithe choibhéisigh
• Iarratasóirí lánfhásta (iad siúd os cionn 23 bliana d’aois ar an 1 Eanáir den bhliain iontrála)
• Iarratasóirí i gcataogóir speisialta (lena n-áiritear DCCÉ-BOO)
• Iarratasóirí idirnáisiúnta

Tabhair faoi deara le do thoil: tá critéir iontrála bhreise ar leith i bhfeidhm maidir le cúrsaí atá á dtairiscint san Scoil Cheoil OTM Chorcaí, i gColáiste Éalaíne agus Deartha OTM Crawford, agus i NMCI – féach leathanáigh 210 go 213 le haghaidh sonraí.

Conas iarratas a dhéanamh

Ni mór d’iarratasóirí ar bhliain 1, 2, 3, nó 4 de chúrsaí lánaimseartha iarratas a dhéanamh trí chóras na Lár-Oifige Iontrála (CAO). Tá eolas iomlán ar fáil i Lámhleabhar CAO a eisear gach bliain ag www.cao.ie.

Dátaí deireanacha d’iarratais: 20ú Eanáir ag 5.15pm (iarratasóir luath ar líne), 1ú Feabhra ag 5.15pm (gnáthiarratasóir), agus 5.15pm ar an 1 ú Bealtaine (iarratasóir déanach). Tabhair faoi deara le do thoil nach nglacann cúrsaí áirithe le hiarratais dhéanacha. Tá an tsaoirí CAO Athrú Intinne ar fáil on 5 ú Lúi ag 5.15pm an 1 ú lúi ag 5.15pm.
Entry 2022/2023
Applicants must be 16 years of age or over on 1st January of the year of entry to the course. For the majority of courses, applicants for first year admission to MTU must score the necessary CAO points and satisfy the relevant minimum entry requirements for their programme of study. The following admissions information is broken down into four categories:

- Leaving Certificate or equivalent examination applicants
- Mature applicants (those over 23 years of age on 1st January of the year of entry)
- Special category applicants (including QQI-FET)
- International applicants

Please note: additional specific admission criteria apply to courses on offer in the MTU Cork School of Music, MTU Crawford College of Art and Design, and in NMCI – see pages 210 to 213 for details.

How to apply
Applicants to year 1, 2, 3, or 4 of full-time courses must apply through the Central Applications Office (CAO) system. Complete information is available in the CAO Handbook issued each year at www.cao.ie.

Closing dates for application: 20th January at 5.15 pm (early online applicant), 1st February at 5.15pm (standard applicant), and 5.15pm on the 1st May (late applicants). Please note that some courses do not accept late applications. The CAO Change of Mind facility is available from 5th May to 1st July at 5.15pm.
Iarratasóirí Ardteistiméireachta nó Scrúdaithe Choibhéisigh

I gcás formhór na dTeastas Ardleibhéil (CNC Leibhéal 6) agus na gCéimeanna (CNC Leibhéal 7) is iad na riachtanais iontrála iosta cúig ábhar Ardteistiméireachta nó scrúdaithe choibhéisigh, ag fáil grád iosta O6/H7 i mBéarla nó i nGaeilge, grád O6/H7 sa mhatamaitic, agus grád O6/H7 i dtrí ábhar eile (féach na heisceachtaí sa liosta thios).

I gcás formhór na gCéimeanna Onóracha (CNC Leibhéal 8) is iad na riachtanais iontrála iosta sé ábhar Ardteistiméireachta nó scrúdaithe choibhéisigh, ag fáil grád iosta dhá H5 agus ceithre O6/H7. Iarrtar ar iarratasóirí grád O6/H7 ar a laghad a fháil sa mhatamaitic, agus i mBéarla nó i nGaeilge (féach na heisceachtaí sa liosta thios).

Féadfar riachtanais iontrála iosta a shásamh le torthaí níos mó nó Ardteistiméireacht amháin. Féadfar ar riachtanais iontrála iosta a athrú d’iarratasóirí neamhchaighdeánacha agus do shealbhóirí dámhachtaini DCCÉ-BOO.

### Eisceachtaí
Tá na riachtanais iontrála iosta difriúil i gcás na gclár seo a leanas

| MT 510 BBus i mBainistíochta Áineasa agus Fóillióchta | MT 836 BEng (Onóracha) san Innealtíóireacht Mheicniúil |
| MT 511 BSc i Sláinte agus Fóillióchta | MT 837 BEng (Onóracha) in Innealtíóireacht Fuinnimh Ínabhuanaithe |
| MT 512 BSc i Sláinte agus Fóilliócht le Suathaireacht | MT 838 BEng (Onóracha) in Innealtíóireacht Cheimiceach agus Bhithchógaisíochta |
| MT 513 BSc i Feidhmíocht Cóitseála agus Spórt | MT 839 BEng (Onóracha) san Innealtíóireacht Bhithfeicisigh |
| MT 514 BSc i Spórt agus Gníomhaíocht Choirp Lánpháirtíochta | MT 871 BSc (Onóracha) san Eolaiocht Bhithfeicisigh |
| MT 515 BA in Oideachas agus Cúram Luath-Oige | MT 880 BSc (Onóracha) in mBhitheolaiocht Fiadhúlra |
| MT 516 BA in Oideachas agus Cúram Luath-Oige | MT 910 BBus (Onóracha) i mBainistíochta Spóirt agus Aclaíochta |
| MT 517 BA in Obar Cúram Shóisialgaigh | MT 911 BSc (Onóracha) i Sláinte agus Fóilliócht |
| MT 518 BA i gCúram Sóisialta | MT 912 BSc (Onóracha) i Sláinte agus Fóilliócht le Suathaireacht |
| MT 519 BA i bhForbairt Pobail | MT 913 BSc (Onóracha) i Feidhmíocht Cóitseála agus Spórt |
| MT 654 HC sna hEalaíona i Staidéar Fáilteachais | MT 914 BSc (Onóracha) i Spórt agus Gníomhaíocht Choirp Lánpháirtíochta |
| MT 655 HC sna hEalaíona i Staidéar Cócaireachta | MT 915 BSc (Onóracha) in Eolaiocht Chóitseála agus Oidealíocht Spórt |
| MT 711 BA i mBéarla, Éifeachtaí Amhairc agus Dearadh Gluaisne* | MT 925 BA (Onóracha) i gCórais Ríomhaireachta le hAndúil |
| MT 764 BEng in Innealtíóireacht Mara | MT 926 BSc (Onóracha) in Altranas Ginearálta |
| MT 765 BEng i Leitríticeineolaiocht Mhuiri | MT 927 BSc (Onóracha) in Altranas Sláinte Meabhrach |
| MT 766 BSc i Eolaiocht Loingseoireachta | MT 930 BA (Onóracha) in Eacnamaíocht Bhaile agus Gníomhaíocht |
| MT 800 BSc (Onóracha) i bhForbairt Bogearraí | MT 936 BMus (Onóracha)* |
| MT 801 BSc (Onóracha) i Riomhaireacht le Forbairt Bogearraí | MT 937 BA (Onóracha) sa Cheol Mórélím* |
| MT 802 BSc (Onóracha) i gCórais Riomhaireachta | MT 938 BA (Onóracha) i dTéitar Ceoil* |
| MT 803 BSc (Onóracha) sa Riomhaireacht | MT 939 BA (Onóracha) in Staidéar Meabhrach |
| MT 804 BSc (Onóracha) i Riomhaireacht le Forbairt Cluichí | MT 942 BBus (Onóracha) sa Chuntasaoiacht |
| MT 811 BA (Onóracha) i mBéarla, Éifeachtaí Amhairc agus Dearadh Gluaisne* | MT 945 BBus (Onóracha) i Staidéar Téatar Ceoil* |
| MT 820 BA (Onóracha) san Ealaín Fheidhmeach | MT 946 BSc (Onóracha) i nGníomhaíocht Spóirt |
| MT 820 BA (Onóracha) san Ealaín Fheidhmeach | MT 962 BSc (Onóracha) in Altrnas Ginearálta |
| MT 820 BA (Onóracha) sa Chomhaimseartha (Criadóireacht, Gloine, Teicstílí)* | MT 970 BEd (Onóracha) in Oideachas Montessori |
| MT 822 BA (Onóracha) sa Ghríanghrafadhóireacht leis na Meáin Nua* | CK 409 BSc (Onóracha) san Fhisic Thionsclaíoch |
| MT 822 BA (Onóracha) sa Ghríanghrafadhóireacht leis na Meáin Nua* | CK 606 BSc (Onóracha) san An tráthlaíochta |
| MT 831 BEng (Onóracha) san Neamhchoimisiúntacht | *Tá nósanna imeachta measúnaithe luathla i bhfeidhm
| MT 834 BEng (Onóracha) in Innealtíóireacht Mheicniúil | |
Leaving Certificate or Equivalent Examination Applicant

For most Higher Certificates (NFQ Level 6) and Degrees (NFQ Level 7) the minimum entry requirements are five Leaving Certificate subjects or equivalent examinations, obtaining a minimum grade O6/H7 in English or Irish, O6/H7 grade in Maths, and O6/H7 grade in three other subjects (see exceptions listed below).

For most Honours Degrees (NFQ Level 8) the minimum entry requirements are six Leaving Certificate subjects or equivalent examinations, obtaining a minimum grade of two H5 and four O6/H7. Candidates are required to obtain a minimum of O6/H7 grade in Maths, and English or Irish (see exceptions listed below).

Minimum entry requirements may be satisfied by the results of more than one Leaving Certificate. The minimum entry requirements may be varied for non-standard applicants and holders of QQI-FET awards.

Exceptions

Minimum entry requirements are different for the following programmes

- MT 510 BBus in Recreation and Leisure Management
- MT 511 BSc in Health and Leisure
- MT 512 BSc in Health and Leisure with Massage
- MT 513 BSc in Coaching and Sports Performance
- MT 514 BSc in Inclusive Sport and Physical Activity
- MT 571 BA in Early Childhood Education and Care
- MT 572 BA in Early Childhood Education & Care
- MT 573 BA in Social Care Work
- MT 574 BA in Social Care
- MT 575 BA in Community Development
- MT 654 HC in Arts in Hospitality Studies
- MT 655 HC in Arts in Culinary Studies
- MT 711 BA in Animation, Visual Effects and Motion Design*
- MT 764 BEng in Marine Engineering
- MT 765 BEng in Marine Electrotechnology
- MT 766 BSc in Nautical Science
- MT 800 BSc (Honours) in Software Development
- MT 801 BSc (Honours) in Computing with Software Development
- MT 802 BSc (Honours) in Computer Systems
- MT 803 BSc (Honours) in Computing
- MT 804 BSc (Honours) in Computing with Games Development
- MT 811 BA (Honours) in Animation, Visual Effects and Motion Design*
- MT 820 BA (Honours) in Contemporary Applied Art (Ceramics, Glass, Textiles)*
- MT 821 BA (Honours) in Fine Art*
- MT 822 BA (Honours) in Photography with New Media*
- MT 823 BA (Honours) in Visual Communications*
- MT 830 Engineering (Common Entry)
- MT 831 BEng (Honours) in Structural Engineering
- MT 834 BEng (Honours) in Mechanical and Manufacturing Engineering*
- MT 836 BEng (Honours) in Mechanical Engineering
- MT 837 BEng (Honours) in Sustainable Energy Engineering
- MT 838 BEng (Honours) in Chemical and Biopharmaceutical Engineering
- MT 839 BEng (Honours) in Biomedical Engineering
- MT 871 BSc (Honours) in Biomedical Science
- MT 880 BSc (Honours) in Wildlife Biology
- MT 910 BBus (Honours) in Sport and Exercise Management
- MT 911 BSc (Honours) in Health and Leisure
- MT 912 BSc (Honours) in Health and Leisure with Massage
- MT 913 BSc (Honours) in Coaching and Sports Performance
- MT 914 BSc (Honours) in Inclusive Sport and Physical Activity
- MT 915 BSc (Honours) in Coaching Science and Sports Pedagogy
- MT 925 BA (Honours) in Counselling with Addiction
- MT 926 BSc (Honours) in General Nursing
- MT 927 BSc (Honours) in Mental Health Nursing
- MT 930 BA (Honours) in Home Economics and Business
- MT 936 BMus (Honours)*
- MT 937 BA (Honours) in Popular Music*
- MT 938 BA (Honours) in Musical Theatre*
- MT 939 BA (Honours) in Theatre and Drama Studies*
- MT 942 BBus (Honours) in Accounting
- MT 945 BBus (Honours) in International Business with Language
- MT 946 BSc (Honours) in Global Business and Pilot Studies*
- MT 970 BEd (Honours) in Montessori Education
- CK 409 BSc (Honours) in Industrial Physics
- CK 606 BSc (Honours) in Architecture

*Early assessment procedures apply
Undergraduate Entry 2022

Matamaitic Bunleibhéil

Comhionann iósghráid F2 sa mhatamaitic bunleibhéil na riachtanas iontrála íosta sa mhatamaitic do na cláir seo a leanas

- MT 541 Baitsiléir Gnó
- MT 571 BA in Oideachas agus Cúram Luath-Óige
- MT 574 BA i gCúram Sóisialta
- MT 654 HC sna hEalaiona i Staidéar Fáilteachais
- MT 655 HC sna hEalaiona i Staidéar Cócaireachta
- MT 941 Baitsiléir Gnó (Onóracha)
- MT 971 BA (Onóracha) in Oideachas agus Cúram Luath-Óige
- MT 974 BA (Onóracha) i gCúram Sóisialta

Ní theastaíonn matamaitic chun iontráil i:

- MT 575 BA i bhForbairt Pobail
- MT 572 BA in Oideachas agus Cúram Luath-Óige
- MT 820 BA (Onóracha) san Ealaín Fheidhmeach Chomhaimeaseartha (Criadóireacht, Gloine, Teicstíli)
- MT 821 BA (Onóracha) sa Mhínealaín
- MT 822 BA (Onóracha) sa Ghrianghrafadóireacht leis na Meáin Nua
- MT 823 BA (Onóracha) sa Chumarsáid Amhairc
- MT 936 BA (Onóracha) sa Cheol
- MT 937 BA (Onóracha) sa Cheol Móréilimmh
- MT 938 BA (Onóracha) i dTéatar Ceoil
- MT 939 BA (Onóracha) i Staidéar Téatar agus Drámaiochta

Cé nach riachtanas é, má ghnóthaíonn iarratasóir grád íosta F2 i matamaitic bhunleibhéil aithnítear an grád seo le haghaidh iontrála agus bronntar pointí CAO mar seo a leanas: F1 = 20 pointe, F2 = 12 pointe.

Tugtar breac-chuntas ar mhionsonraí iomlána na riachtanas iontrála íosta do chúrsaí sa mhir faisnéise cúrsa ábhartha den réamheolaire seo. Moltar d’iarratasóirí na hábhair, tástálacha, punanna agus dátaí ábhartha a sheiceáil go cúramach. Go háirithe, tá nósanna imeachta measúnaithe luatha ann le haghaidh roinnt cúrsaí.
Foundation Level Maths

A minimum grade of F2 in foundation level Maths fulfils the minimum entry requirements in Maths for the following programmes:

- MT 541 Bachelor of Business
- MT 571 BA in Early Childhood Education and Care
- MT 574 BA in Social Care
- MT 654 HC in Arts in Hospitality Studies
- MT 655 HC in Arts in Culinary Studies
- MT 941 Bachelor of Business (Honours)
- MT 971 BA (Honours) in Early Childhood Education and Care
- MT 974 BA (Honours) in Social Care

Maths is not required for entry to:

- MT 575 BA in Community Development
- MT 572 BA in Early Childhood Education & Care
- MT 820 BA (Honours) in Contemporary Applied Art (Ceramics, Glass, Textiles)
- MT 821 BA (Honours) in Fine Art
- MT 822 BA (Honours) in Photography with New Media
- MT 823 BA (Honours) in Visual Communications
- MT 936 BA (Honours) in Music
- MT 937 BA (Honours) in Popular Music
- MT 938 BA (Honours) in Musical Theatre
- MT 939 BA (Honours in Theatre and Drama Studies

Although not a requirement, if an applicant achieves a minimum grade of F2 in foundation level Maths, this grade is recognised for entry and CAO points are awarded as follows: F1 = 20 points, F2 = 12 points.

Full details of minimum entry requirements for courses are outlined in the relevant course information section of this prospectus. Applicants are advised to check the relevant subjects, tests, portfolios, and dates very carefully. In particular, there are early assessment procedures for some courses.
Córais Pointí CAO

Bronnfar pointí ar ghnáthiarratasóirí ar chúrsaí na chéad bhliana tríd an ngnáthscála pointí CAO a chur i bhfeidhm ar na torthaí a fháightear i Scrúdú na hArdeistiméireachta. Meabhraítear d’iarratasóirí go n-athaíonn leibhéal na pointí gach bliain de réir an tisoláthair agus an eilímh ar éiteanna. Úsáidtear na SÉ torthaí is fearr in aon suí amháin den Scrúdú Ardeistiméireachta chun pointí a riomh.

NB: Tá ríomh na bpontíi neamhspleách ar na ríomhaí is fearr.

Comhscála Pointí na hArdeistiméireachta

Tá 8 ngrád ag Comhscála Pointí na hArdeistiméireachta, is é an grád is airde Grád 1, an grád is ísle Grád 8. Roinneann an seacht ngrád is airde 1 – 7 an raon marcanna go 100% go 30% i seacht mbanda gráid comhionanna atá 10% ar leithead, agus bronntar grád 8 ar mharcanna céadadain níos lú ná 30%. Déantar idirdhealú idir na gráid ar ardeibhéal agus gnáthleibhéal trí H nó O a chur roimhe faoi seach, ag tábhairt H1 – H8 ag an ardeibhéal agus O1 – O8 ag an ngnáthleibhéal.

<table>
<thead>
<tr>
<th>Grád (%)</th>
<th>Pointí</th>
<th>Grád (%)</th>
<th>Pointí</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1 (90-100)</td>
<td>100</td>
<td>O1 (90-100)</td>
<td>56</td>
</tr>
<tr>
<td>H2 (80-90)</td>
<td>88</td>
<td>O2 (80-90)</td>
<td>46</td>
</tr>
<tr>
<td>H3 (70-80)</td>
<td>77</td>
<td>O3 (70-80)</td>
<td>37</td>
</tr>
<tr>
<td>H4 (60-70)</td>
<td>66</td>
<td>O4 (60-70)</td>
<td>28</td>
</tr>
<tr>
<td>H5 (50-60)</td>
<td>56</td>
<td>O5 (50-60)</td>
<td>20</td>
</tr>
<tr>
<td>H6 (40-50)</td>
<td>46</td>
<td>O6 (40-50)</td>
<td>12</td>
</tr>
<tr>
<td>H7 (30-40)</td>
<td>37</td>
<td>O7 (30-40)</td>
<td>0</td>
</tr>
</tbody>
</table>

Scóráil Pointí do Nasc-mhodúl an Ghaírmchláir Ardeistiméireachta (LCVP)

Déanann sealbhóirí an Ghaírmchláir Ardeistiméireachta iarratas ar an ngnáthbhealach tríd an CAO. Bronntar pointí ar an mbonn céanna leis an Ardeistiméireacht. Ní féidir na nasc-mhodúil ‘ábhar’ a úsáid chun na ríomhachtain na ríomhaí is fearr.

<table>
<thead>
<tr>
<th>Grád LCVP</th>
<th>Pointí</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gradam</td>
<td>66</td>
</tr>
<tr>
<td>Fiúntas</td>
<td>46</td>
</tr>
<tr>
<td>Pas</td>
<td>28</td>
</tr>
</tbody>
</table>

Clár na hArdeistiméireachta Feidhmí (LCA)

Ní chomhlíonann ábhair an LCA na híosriachtanais maidir le hiontráil ar chursai lánaímseartha OTM. B’fhéidir gur mhaith le sealbhóirí cáilchothlaí na hArdeistiméireachta Feidhmí dul ar aghaidh chuig cúrsa BOO-DCCÉ agus ansin iarratas a dhéanamh ar thríú leibhéal ar bhonn a ndámhachtainni BOO-DCCÉ.

Comhscála Pointí Bónais do Mhathamaitic Ardeibhéal

Bronntar bónas 25 pointe ar iarratasóirí a ghnóthaionn grád H6 nó níos airde sa mhatamaitic Ardeibhéal.

Foirmle:
• Cuirfeaf 25 pointeí leis an scór don mhatamaitic do gach mac léinn a bhain toradh H6 nó níos airde amach i matamaitic Ardeibhéil.

Déanfar an CAO torthaí na n-iarratasóirí a bhfuil torthaí Ardeistiméireachta riomh 2017 acu a mhapáil go direach ar an gcomhscála pointí thuas. Féach cao.ie le haghaidh tuilleadh suas.

<table>
<thead>
<tr>
<th>Grád (%)</th>
<th>Pointí</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gradam</td>
<td>66</td>
</tr>
<tr>
<td>Fiúntas</td>
<td>46</td>
</tr>
<tr>
<td>Pas</td>
<td>28</td>
</tr>
</tbody>
</table>

Gradam LCVP 66
Fiúntas 46
Pas 28

Déanfaidh an CAO torthaí na n-iarratasóirí a bhfuil torthaí Ardeistiméireachta roimh 2017 acu a mhapáil go direach ar an gcomhscála pointí thuas. Féach cao.ie le haghaidh tuilleadh suas.
CAO Points Systems

Standard applicants for first year courses will be awarded points by applying the normal CAO points scale to the results obtained in the Leaving Certificate Examination. Applicants are reminded that the points level varies each year according to supply and demand for places. The SIX best results in one sitting of the Leaving Certificate Examination will be used for points calculation.

NB: Calculation of points is independent of minimum entry requirements.

Leaving Certificate Common Points Scale

The Leaving Certificate Common Points Scale has 8 grades, the highest grade is a Grade 1, the lowest grade a Grade 8. The highest seven grades 1 – 7 divide the marks range 100% to 30% into seven equal grade bands 10% wide, with a grade 8 being awarded for percentage marks of less than 30%. The grades at higher level and ordinary level are distinguished by prefixing the grade with H or O respectively, giving H1 – H8 at higher level, and O1 – O8 at ordinary level.

<table>
<thead>
<tr>
<th>Grade (%)</th>
<th>Points</th>
<th>Grade (%)</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1 (90-100)</td>
<td>100</td>
<td>O1 (90-100)</td>
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<tr>
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<td>46</td>
</tr>
<tr>
<td>H3 (70-80)</td>
<td>77</td>
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<td>37</td>
</tr>
<tr>
<td>H4 (60-70)</td>
<td>66</td>
<td>O4 (60-70)</td>
<td>28</td>
</tr>
<tr>
<td>H5 (50-60)</td>
<td>56</td>
<td>O5 (50-60)</td>
<td>20</td>
</tr>
<tr>
<td>H6 (40-50)</td>
<td>46</td>
<td>O6 (40-50)</td>
<td>12</td>
</tr>
<tr>
<td>H7 (30-40)</td>
<td>37</td>
<td>O7 (30-40)</td>
<td>0</td>
</tr>
</tbody>
</table>

Applications presenting with pre-2017 Leaving Certificate results will have their results mapped directly onto the common points scale above by the CAO. See cao.ie for further details.

Points Scoring for Leaving Certificate Vocational Programme (LCVP) Link Module

Holders of the LCVP apply in the normal way through the CAO. Points are awarded on the same basis as for the Leaving Certificate. The link modules ‘subject’ may not be used to meet the minimum entry requirements.

<table>
<thead>
<tr>
<th>LCVP Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distinction</td>
<td>66</td>
</tr>
<tr>
<td>Merit</td>
<td>46</td>
</tr>
<tr>
<td>Pass</td>
<td>28</td>
</tr>
</tbody>
</table>

Leaving Certificate Applied (LCA) programme

The LCA subjects do not meet the minimum requirements for entry to MTU full-time courses. Holders of Leaving Certificate Applied qualifications may wish to proceed to a FET-QQI course and in turn apply to third-level on the basis of their FET-QQI award.

Common Bonus Points Scale for Higher Level Mathematics

A bonus of 25 points is awarded to applicants who achieve a grade H6 or above in higher level (HL) Maths.

Formula:
- All students presenting H6 or above in HL Maths will have 25 points added to their score for Maths.

The six highest subject points scores will then be counted to achieve a cumulative points score, as is normal practice. The bonus points will only be relevant in cases where the subject HL mathematics (including bonus points) is scored as one of the candidate’s six best subjects for points purposes. Consequently, if HL mathematics (cumulative points score) is not among these six subjects, the bonus points will not be included in the total points score. Bonus points will be awarded irrespective of the year in which the examinations were taken.
D’fhéadfadh nach mbainfeadh mac léinn áirithe a dhéanann iarratas ar chúrsaí OTM an caighdeán iontrála riachtanach sa mhatamaitic amach trí scrúdú na hArdeisteiméireachta. Maidir le hiarratasóirí den sórt sin, tugann an Ollscoil an dara deis dóibh an caighdeán an iontrála riachtanach a bhaint amach trí scrúdú matamaitice OTM. Ligean áis an dara sheans seo d’iarratasóirí (ag brath ar a dtortha i Scrúdú Matamaitice OTM) iontráil a fháil ar chursái le caighdeán an iontrála matamaitice Ardeisteiméireachta Gnáthleibhéil agus (i gcás leibhéal feidhmiochta níos aithe) ar chursái le caighdeán iontrála matamaitice Ardeisteiméireachta Ardeibeal.

Má tá pas ar a laghad ag iarratasóir sa scrúdú matamaitice OTM, i.e. 40%, is féidir léi grád O6/H7 ar a laghad in ábhar Ardeisteiméireachta a bhaint amach ar trí gcás: gráid O6/H7 ar a laghad sa mhatamaitic Ardeisteiméireachta, i.e. caithfí pas a bheith faighte ag iarratasóirí i sé abhaigh san Ardeisteiméireacht.

Ni mór d’aiarratasóirí ar chursáid a bhfuil riachtanais matamaitice H4 acu an dara páipéar a shuí agus meán 70% a bhaint amach ar fud an dá páipéar.

Léiríonn scrúdú matamaitice OTM riachtanais matamaitice iarbhír OTM agus marcaítear é de réir nós imeachta agus chrítheir atá leagtha amach ag OTM. Nil bhaineann sé ach d’aiarratasóirí a rinne iarratas ar OTM.

Nil an scrúdú seo éigeantach agus ní dháimhtrí pointí CAO dá bharr. Is é an t-aon aidhm atá leis ná an dara shean a thabhairt do mhac léinn an caighdeán cáiliteach sa mhatamaitic a bhaint amach atá riachtanach le haghaidh iontrála ar chursái áirithe OTM. Ní chuireann sé isteach ar bhealach ar bith ar iarratas a dhéantar ar chúrsaí nó ar chónaí a eile laistigh den chóras CAO.

Ni ráthaíonn cáilíocht cáilíochta sa scrúdú matamaitice OTM ann féin áit ar an chúrsa in OTM. Beidh feidhm i gcónaí ag na scoithpointí do gach cúrsa.


Má theastaíonn cóiríocht réasúnta uait don scrúdú matamaitice seo, mar gheall ar mhíchumas nó difríocht foghlama, téigh i dteagmháil leis na Seirbhísí Tacaíochta Michumas:

Campos OTM Chorcaí
R: dssCork@mtu.ie

Campos OTM Chiarraí
R: supportservicesKerry@mtu.ie
MTU Maths Exam

Some students who apply for MTU courses may not achieve the required entry standard in Maths through the Leaving Certificate examination. For such applicants, the University offers a second chance to reach the required entry standard through a MTU Maths Exam. This second chance facility allows applicants (depending on their results in the MTU Maths Exam) to gain entry to courses with an Ordinary Leaving Certificate Maths entry standard and (with a higher level of performance) courses with a Higher Leaving Certificate Maths entry standard.

A minimum of a pass in the MTU Maths Exam i.e. 40% will allow an applicant to replace the Leaving Certificate Maths requirement of Grade O6/H7 minimum with a grade O6/H7 minimum in another Leaving Certificate subject i.e. applicants must have passed six subjects in the Leaving Certificate.

Applicants to courses which have a H4 Maths requirement must sit a second paper and achieve a 70% average across both papers.

The MTU Maths Exam reflects the actual mathematical requirements of MTU and is marked in accordance to procedure and criteria set out by MTU. It is only relevant for applicants who have applied to MTU.

This examination is not obligatory and does not result in the award of CAO points. Its sole purpose is to allow a student a second chance to achieve the qualifying standard in mathematics necessary for admission to certain MTU courses. It does not interfere in any way with an application made to other courses or colleges within the CAO system.

Attaining a qualifying standard in the MTU Maths Exam does not in itself guarantee a place on any course in MTU. The cut-off points for all courses will still apply.

In order to sit the MTU Maths Exam, students MUST APPLY ONLINE. The 2022 MTU Maths Exam will most likely be held on Tuesday following the week of the Leaving Certificate results release. Exact details will be published on www.mtu.ie/maths closer to the date.

If you require reasonable accommodation for this Maths Examination, due to a disability or learning difference, please contact the Disability Support Services:

MTU Cork Campus
E: dssCork@mtu.ie

MTU Kerry Campus
E: supportservicesKerry@mtu.ie
Undergraduate Entry 2022

Fáilteoir an Ollscoil roimh iarratais ó dhoine a bheith 23 bliana d’aois agus níos sine an 1. Eanáir den bhliain iontrála atá beartaithe agus an mion leacht isteach mar mhic léinn lán fhásta. Ba chóir d’iarratasóirí lán fhásta iarratas a dhéanamh chuig an CAO roimh 5.15pm, 1 Feabhra. Déanann an Ollscoil breithniú ar gach iarratasóir lán fhásta ar bhonn aonair, tríd an bhfaisnéis a chuirtear ar fáil ar a bhfoirm iarratais CAO de ghnáth. Ina theannta sin, d’fhéadfaidh sé go n-íarrfai orthu punann a chur i láthair nó freastal ar thástáil inniuilacha nó measúnú scriofa agus/nó agallamh. De ghnáth náthúil teastair iad seo i mBhealtaine gach bliain do chlár ina mbitheann siad riachtanach.

Ní cheanglaitear ar iarratasóirí lán fhásta Ardteistiméireacht nó ri úsáidh iontrála a bheith acu. Mar sin féin, d’fhéadfaidh go mbeadh sainriachtanais ag roinnt clár agus ba cheart d’iarratasóirí lán fhásta eolas a chur ar an méid seo. Ba chóir d’iarratasóirí cáipéisíocht a chur foiar i mhaith maith mar dhéanamh aon leathnú i mbhíonn an clár den leith, chomh maith leis na cónaí chun feabhas a thabhadh tríd an carbó. D’fhéadfaidh gach iarratasóir go lóidir chuimnson fáoi na cúrsaí a bhain an cumhacht náisiúnta a chur isteach. D’fhéadfaidh gach iarratasóir gach clár a chur isteach agus a thabhadh tríd an carbó.

Nóta: Féadfar iarratasóirí lán fhásta a mheas ar a dhuine an bheith éirithe leis an Ollscoil agus mar mheasúnú díreach a bhfuil sé de phróiseas measúnaithe agus ní mór d’iarratasóirí go deacair a bheith éirithe leis an Ollscoil. Moltar d’iarratasóirí lán fhásta a chur ar 5.15pm, 1 Bealtaine.

Lán fhásta atá ar shuntasóirí a bheith éirithe leis an Ollscoil agus mar mheasúnú díreach a bhfuil sé de phróiseas measúnaithe agus ní mór d’iarratasóirí go deacair a bheith éirithe leis an Ollscoil.

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The University welcomes applications from persons who will be 23 years of age and over on the 1st January of the proposed year of entry and who wish to be admitted as a mature student. Mature applicants should apply to the CAO before 5.15pm, 1st February. Each mature applicant is considered on an individual basis by the University, usually by the information supplied on their CAO application form. In addition, they may be required to present a portfolio or attend an aptitude test or written assessment and/or interview. These are normally held in May each year for programmes where these are required.

Mature applicants are not required to have a Leaving Certificate or the minimum entry points. However, some programmes may have specific requirements and mature applicants should familiarise themselves with these. Applicants should include documentation in relation to any courses that they have undertaken at second level (Junior and Leaving Certificate) as well as any professional and hobby courses that they may have taken. Applicants are strongly encouraged to include details of all courses that they have completed in the past, as well as providing any information that may reflect their preference choices (i.e. work experience/motivation/goals, etc.). These qualifications will be considered, along with their statement of interests, as part of the assessment.

Note: Mature applicants may also be considered on their Leaving Certificate and QQI points.

Mature applicants to MTU Kerry Campus who hold Leaving Certificate results are advised to contact admissionsKerry@mtu.ie when completing the CAO application form, those applying as mature students should tick the mature box on the application form and complete the relevant details. It is very important that mature applicants complete all sections of the CAO application form as this information is taken into consideration when assessing the student’s application. Mature applicants from outside the EU are required to submit relevant documentation in relation to their status in Ireland, prior to accepting an invitation to attend aptitude tests or written assessment and/or interview.

Late applicants (i.e. by 5.15pm, 1st May) to CAO will be considered by the University. Late applicants are advised to notify the MTU Admissions Office directly after they have submitted their CAO application. Only where required for particular programmes these applicants may be invited to present a portfolio or attend the aptitude test or written assessment and/or interview in May. Otherwise these applicants may undertake tests and/or interviews in early August. However, the University cannot guarantee that late applicants will be called for assessment.

Please note the quota of reserved places on high demand programmes may have been filled in May by the on-time candidates. Late candidates may be put on a waiting list if they are successful. However, we cannot guarantee places to these applicants. Mature applicants should also contact the respective MTU Admissions Office if they avail of the change of mind facility with CAO (i.e. by 1st July).

Applicants to MT 925 BA (Honours) in Counselling with Addiction
This programme is restricted to mature applicants. Applicants must attend and successfully complete an interview which is organised by the University. In addition, applicants are required to hold a Leaving Certificate (or equivalent) with a minimum of 2 x H5 and 4 x O6/H7 OR hold a full QQI (Level 5) award with a minimum of 3 distinctions OR complete a recognition of prior learning (RPL) process with the University OR have successfully completed the University’s Mature Student Assessment.

Mature Applicants for MT 926 Bsc in General Nursing and MT 927 Bsc in Mental Health Nursing
Please note the assessment of mature candidates for nursing programmes nationally is carried out by the Nursing and Midwifery Board of Ireland and not by the relevant HEI. If you choose to apply as a mature applicant, you must be successful in the current year at an assessment test, however, success at the assessment test does not guarantee an offer of a place. There are specific dates for this assessment process and applicants must familiarise themselves with these dates as the onus is on the applicant to apply for the assessment test in addition to their application to the CAO. Please note that the CAO late application deadline of 5.15pm on 1st May is not available to those who have not successfully completed their NMBI assessment that year. For further information go to www.nmbi.ie/Careers-in-Nursing-Midwifery.

If you are considering applying to MTU as a mature applicant and have any further queries, please contact:

MTU Cork Campus
Christine Nolan
Mature Student Officer
T: +353 (0)21 432 6777
E: mature.studentcork@mtu.ie

MTU Kerry Campus
T: +353 (0)66 714 5638
E: admissionsKerry@mtu.ie
Dámhachtainí DCCÉ-BOO

Fáiltionn OTM roimh iarratais, trí an CAO, ó iarratasóirí a bhfuil dámhachtainí DCCÉ-BOO acu ag leibhéal 5 nó leibhéal 6. Is féidir do dámhachtainí DCCÉ-BOO a úsáid mar mhalairt ar an Ardteistiméireacht chun críocha iarratais.

Tabhair faoi deara le do thoil go bhfuil roinnt clár staidéir de chuid OTM ar fáil do shealbhóirí dámhachtana DCCÉ-BOO ar bith ag Leibhéal 5 nó 6 agus beidh dámhachtainí ar leith ag teastáil ó chuid eile.

Ríomhtar an scór is fearr do gach iarratasóir agus cuirtear na torthaí ar aghaidh chuig an CAO i mí Iúil gach bliain. Is féidir leat do scór a ríomh trí úsáid a bhaint as an áireamhán pointí ar líne saor in aisce ag www.careersportal.ie/qqi/.

Scóráiltear gach comhpháirt leibhéal 5 agus leibhéal 6:

• 3.25 le haghaidh Gradaim
• 2.16 le haghaidh Fiúntais
• 1.08 le haghaidh Pas

Ansin iolraithear an uaimh sin go bhfuil an chomhpháirt de chuid OTM ar chomhpháirtiú a leithéid agus a chur i gcothromóg na comhpháirtí. Is féidir le gach iarratasóir a dhéanamh thar torthaí a chur faoi gcothromóg na comhpháirtí.

Ba chóir d’iarratasóirí a chríochnaigh a dámhachtainí DCCÉ i mbliain roimh bhliain an iarratais a ráiteas torthaí a cheangal lena bhfoirm CAO.

Le haghaidh tuilleadh eolais éisean teagmháil le:
Campas OTM Chiarraí
R: admissionsKerry@mtu.ie

SCÉIM NA GCOLÁISTÍ BREISOIDEACHAIS (CCPS) - D’IARRATAISÓIRÍ DCCÉ-BOO AR CHÚRSAÍ A SHEACHADTAR AR CHAMPAS OTM CHORCAI

Tá scéim speisialta ag OTM Chun mic léinn a ligeann isteach a n-éirionn leo cúrsaí i gColáistí Breisoideachaí (CCPS) i gCorcaigh, ar fadhb arís, samhraidh, áirithe i gColáistí Breisoideachaí (BO) agus i gcoláistí BO a bhfuil dámhacht DCCÉ a sheachadtaidh mar mhalairt cónaí agus ollscoil. Is féidir le gach iarratasóir a bhíonn i gcoláistí BO a chur i gcothromóg na comhpháirtí.

Seiceanna Cónaí: 5M2102

Le haghaidh tuilleadh eolais éisean teagmháil le:
Campas OTM Chorcaí
R: admissionsCork@mtu.ie

Ni mór d’iarratasóirí na critéir seo a leanas a chumhlonadh chuig go bhféachtaí orthu:

1. Dámhachtain DCCÉ nasctha iomlán ar a laghad a bhaint amach atá le cur san áireamh le haghaidh clár leibhéal 7

2. Dámhachtain DCCÉ nasctha iomlán le 3 ghradam ar a laghad a bhaint amach atá le cur san áireamh le haghaidh clár leibhéal 8.

Iarratas chuig CAO ar an gclár/ na clárí abhartha a chomhlánfaidh AGUS foirm iarratais Champas Chiarrai OTM a chomhlánaí. Déanfar tairiscintí CAO i mBabhta 0 (go luath i mBliain Lúnasa) agus ni bheidh ar iarratasóirí d’iarratasóirí dul san iomaiocht an fhrith de na iarrataíocht.

Tabhair faoi deara le do thoil go bhféadfaidh ainmnneacha cúrsaí BOO CHIARRAÍ a sheachadh ar fáil ar an gCód DCCÉ, i.e. 5M2102 srl.

Le haghaidh tuilleadh eolais éisean teagmháil le:
Campas OTM Chiarraí
R: admissionsKerry@mtu.ie

Le haghaidh tuilleadh eolais éisean teagmháil le:
Campas OTM Chorcaí
R: admissionsCork@mtu.ie
QQI-FET Awards

MTU welcomes applications, via the CAO, from applicants who hold a QQI-FET award at level 5 or level 6. Your QQI-FET award can be used as an alternative to the Leaving Certificate for application purposes. Please note some MTU programmes of study are available to holders of any QQI-FET Level 5 or 6 award, while others will require specific awards.

The best score for each applicant is calculated and the results are forwarded to the CAO in July of each year. You can calculate your score using the free online points calculator at www.careersportal.ie/qqi/ which is based on the following scoring system:

Each level 5 and level 6 component is scored:

• 3.25 for a Distinction
• 2.16 for a Merit
• 1.08 for a Pass

This number is then multiplied by the individual component credit value to a maximum of 120 credits (a total of 390 points).

It may be easiest to multiply the individual component credit value by 3 for Distinction, 2 for Merit, and 1 for Pass, multiplying by 13 and dividing by 12.

Applicants who completed their QQI award in a year previous to the year of application should attach their statement of results to their CAO form.

For further information and details of specific QQI-FET awards required please refer to the QQI-FET entry requirement listing on the CAO website http://www.cao.ie/index.php?page=fetac_search

Linked Access Scheme for QQI-FET Applicants to Courses delivered on MTU Kerry Campus

MTU operates a Linked Access Scheme for holders of QQI-FET awards from Kerry Education and Training Board (ETB). Under this scheme a number of courses delivered in the MTU Kerry Campus are linked to specific courses in the Kerry ETB Colleges of Further Education. Applicants to these MTU courses, who hold a relevant QQI-FET award, will be considered on reduced CAO points. The University reserves a minimum of 5% of places in year one of our linked courses for applicants achieving specific awards/distinctions in the QQI-FET course.

Applicants must meet the following criteria in order to be considered:

1. Achieve a minimum of a full linked QQI award to be considered for a level 7 programme
   OR
2. Achieve a full linked QQI award, with a minimum of 3 distinctions, to be considered for a level 8 programme.

Complete an application to CAO in for the relevant programme(s) AND complete the MTU Kerry Campus application form. CAO offers will be made in Round 0 (early August) and applicants will not have to compete with Leaving Certificate students in Round 1.

Please note that the KERRY ETB course names may vary slightly, so the application will be considered on the QQI Code i.e. 5M2102 etc.

For further information contact:
MTU Kerry Campus
E: admissionsKerry@mtu.ie

Further Education Colleges Scheme (CCPS) – for QQI-FET applicants to courses delivered on MTU Cork Campus

MTU has a special scheme for the admission of students who successfully complete courses in Further Education (FE) Colleges in Cork. Under this scheme a number of courses delivered in MTU Cork Campus are linked to certain courses in the FE colleges and the University reserves a number of places on its linked courses for applicants achieving specified levels and other requirements in their awards.

Cork Further Education Colleges
Cork College of Commerce
Coláiste Stiofáin Naofa
CityNorth College of Further Education
St John’s Central College
Kinsale College of Further Education
Mallow College of Further Education

For further information contact:
MTU Cork Campus
E: admissionsCork@mtu.ie
Clár Rochtana do Thaistealaithe - Campas OTM Chiarraí

Coinníonn OTM roinnt áiteanna síar ar a chlár a sheachadtar ar Champs Chiarraí do rannpháirtithe ó phobal na dTaistealaithe. Ba chóir d’iarratasóirí:

1. Iarratas a chur isteach chuig an CAO (mar iarratasóir Ardteistiméireachta agus tig a chur le Chatagóir 5 ‘Scrúduithe Scoile Eile’) roimh 5:15pm, 1ú Feabhra

2. Foirm iarratais OTM a chomhlánú agus a sheoladh ar ais mar aon le curriculum vitae, chuig Oifig Iontrála OTM an Champais Thuaidh roimh 5:15pm, 1ú Feabhra

3. Freastal ar agallamh agus/nó measúnú le OTM Chiarraí agus e a chríochnú go rathúil.

Ni mór d’iarratasóirí na híosriachtanais iontrála a chomhlíonadh i leith gach clár mar a shonraithear le haghaidh HEAR. Má tá ceisteannta agat, seol ríomhphost chuig accesskerry@mtu.ie

Bealach Rochtana Ardoideachais (HEAR)

Is scéim coláiste agus ollscoil é an Bealach Rochtana Ardoideachais (HEAR) a thairgeann áiteanna ar phointí laghdaithe agus tacaíocht bhreise coláiste do lucht fágála scoile ó chúlraí faoi mhíbhuntáiste socheacnamaíoch atá ina gcónaí i bPoblacht na hÉireann.

Cé ba chóir dó iarratas a dhéanamh ar HEAR?

Is do lucht fágála scoile atá faoi bhun 23 bliana d’aois amhail an 1ú Eanáir 2022 agus atá ina gcónaí i bPoblacht na hÉireann atá HEAR. Ni mór d’iarratasóirí HEAR raon táscairí airgeadais, sóisialta agus cultúrtha a chomhlíonadh chun go mbreithneofar iad le haghaidh ait pointí laghdaithe agus tacaíochta breise ón gcoláiste.

Conas iarratas a dhéanamh ar HEAR

Ni féidir iarratas HEAR a dhéanamh ach ar line ag www.cao.ie. Sa bhliain iontrála, éilitear ar iarratasóirí:

1. Faoi 5:15pm ar an 1 úFeabhra, iarratas a dhéanamh ar line chuig an CAO.

2. Faoi 5:15 pm ar an 1ú Márta, cuir in iúl i d’iarratas CAO le do thoil gur mian leat cur isteach ar an scéim HEAR. Ni mór duit gach uile gné den fhoirm HEAR a chomhlánú go hiomlán agus go cruinn.

3. Faoi 5:15pm ar an 15ú Márta, cuir isteach fianaise ábhartha chun tacú le d’iarratas chuig an CAO, le do thoil.

Coiinnioll tairisceana HEAR

Caithfhidh mic léinn a fhaigheann tairiscint HEAR freastal ar chlár theosshuimh éigeantach. Tugtar réimse tacaiochtaí acadúla, pearsanta agus sóisialta do mhic léinn HEAR agus iad ag staidéar ag an triú leibhéal.

Le haghaidh tuilleadh eolaí féach www.accesscollege.ie

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<th>Campas OTM Chorcaí</th>
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204 Undergraduate Entry 2022
Traveller Access Programme - MTU Kerry Campus

MTU reserves a number of places on its programmes delivered on the Kerry Campus for participants from the Traveller community. Candidates should:

1. Apply to CAO (as a Leaving Certificate applicant and tick Category 5 'Other School Exams' applicant) before 5.15pm, 1st February

2. Complete an MTU application form and return, with a curriculum vitae, to the Admissions Office MTU Kerry North Campus before 5.15pm, 1st February

3. Attend and successfully complete an interview and/or assessment with MTU Kerry.

Candidates must meet the minimum specific entry requirements for all programmes as specified for HEAR. If you have queries, please email accesskerry@mtu.ie

Higher Education Access Route (HEAR)

The Higher Education Access Route (HEAR) is a college and university scheme that offers places on reduced points and extra college support to school leavers from socioeconomically disadvantaged backgrounds who are resident in the Republic of Ireland.

Who should apply to HEAR?
HEAR is for school leavers under the age of 23 as of 1st January 2022 who are resident in the Republic of Ireland. HEAR applicants must meet a range of financial, social and cultural indicators to be considered for a reduced points place and extra college support.

How to apply to HEAR?
HEAR applications can only be made online at www.cao.ie. On the year of entry, applicants are required to:

1. By 5.15 pm on 1st February, apply online to CAO.
2. By 5.15 pm on 1st March, please indicate in your CAO application that you wish to apply for the HEAR scheme and you must fully and correctly complete all elements of the HEAR form.
3. By 5.15 pm on 15th March, please submit relevant evidence in support of your application to the CAO.

Condition of a HEAR offer
Students who receive a HEAR offer must attend a compulsory orientation programme. HEAR students are offered a variety of academic, personal, and social supports while studying at third level.

For further information please refer to www.accesscollege.ie

MTU Cork Campus
E: hearCork@mtu.ie
MTU Kerry Campus
E: hearky@mtu.ie
E: veronique.lostaldavern@mtu.ie
Bealach Rochtana Míchumais chuig an Oideachas (DARE)

Is scéim iontrála mhailartach tríú leibhéil é an Bealach Rochtana Míchumais chuig an Oideachas (DARE) do lucht fágála scoile a raibh thionchar diúltach ag a gcuid míchumais ar a gcuid oideachais dara leibhéil. Cuireann DARE áiteanna pointí laghdaithe ar fáil do lucht fágála scoile a raibh tionchar diúltach ag a gcuid míchumais ar a gcuid oideachais mar thoradh ar an chumas sin.

Cé atá in ann iarratas a dhéanamh ar DARE?

Tá Dare ar fáil do lucht fágála scoile atá faoi bhun 23 bliana d'aois amhail an 1ú Eanáir 2022, atá faoi mhíchumas agus ar imir a mhíchumas tionchar ar a gcuid oideachais mar thoradh ar an chumas sin.

Is féidir le hiarratasóirí ar DARE Ardteistiméireacht as Éirinn, A-Leibhéil agus/cáilíochtaí eile ón AE a chur i láthair. Tá bealaí iontrála difriúla ag mic léinn lárnála agus ag mic léinn a dhéanann iarratas ar bhonn thorthaí Breisoideachais agus Oilíúna (BOO).

Cad iad na cineálacha míchumais a ghlacann DARE san áireamh?

• Neamhord easnaimh aire (ADD) / Neamhord hipirghníomhaíochta easnaimh aire (ADHD)
• Speictream uathachais / Asperger’s
• Dall/lagradhairc
• Bodhar/lagéisteachta
• Neamhord comhordaithe forbartha (diospraicse / diosghraife)
• Coinníoll sláinte m.sh. dúlagar, déphólach, imní
• Coinníoll néareolaíoch m.sh. gortú inchinne, titimeas
• Míchumas coirp m.sh. airtríteas, pairilis cheirbreach
• Tinneas suntasach leanúnach m.sh. diaibéiteas cineál 1, fiobróis chisteach, tuirse ainsealach
• Deacracht cumarsáide urlabhra agus teanga
• Deacracht shonrach foghlama (lena n-áirítear disléicse agus dyscalculia)

Conas iarratas a dhéanamh ar DARE

Ní féidir iarratas DARE a dhéanamh ar líne chuig an CAO.

1. Faol 5:15pm an 1 ú Feabhra, iarratas a dhéanamh ar líne chuig an CAO.
2. Faol 5:15pm an 1ú Márt, nocht do mhíchumas/ deacracht shonrach foghlama i d’iarratas CAO le do thoil agus comhlánaigh cuid A den fhoirmin eolais thordairíocht (SIF) ina hiomlaíne agus i gceart.
3. Faol 5:15pm an 1ú Márt, déan iarratas chuig DARE agus ní mór duit freagra DEARFACH a thabhairt ar cheist i gcuid A den SIF agus i comhlánaítsa ina hiomlaíne.
4. Faol 5:15pm an 15ú Márt, cuir isteach gach doiciméad ábhartha is gá chun d’iarratas chuig an CAO a chhríochnú.

Cad iad na buntáistí a bhaineann le DARE?

Má dhéanann tú iarratas chuig DARE agus má chomhchlinnionn tú na cinntí iarratas (is é sin, má mheastar go bhfuil tú in áthas le haghaidh DARE) feadfar áit a thairiscint duit fiú mura bhfuil go leor pointí Ardteistiméireachta agat don chúrsa is fearr leat. Coinníonn gach coláiste agus oilscóil rannpháirtíochtaighion airtíthe iomlán ar leith a thuas iad a thairiscint d’iarratasóirí DARE ináthasach ag pointí Ardteistiméireachta níos isle nó laghdaithe. Má tá ceann amháin nó níos mó de na míchumais atá sa líosta thús ort agus má bhí tionchar diúltach ag do mhíchumas ar d’oideachas dara leibhéil, ba cheart duit iarratas a dhéanamh ar DARE.

Le bheith ináthasach le haghaidh DARE caithfí tú córas DARE um tionchar a oideachas agus fianaise DARE ar chríteir mhíchumas ar an chomhlacht na hÉireann.

Tá iarratasóirí ar DARE Ardteistiméireacht as Éirinn, A-Leibhéil agus/cáilíochtaí eile ón AE a chur i láthair. Tá bealaí iontrála difriúla ag mic léinn lárnála agus ag mic léinn a dhéanann iarratas ar bhonn thorthaí Breisoideachais agus Oilíúna (BOO).

Mic Léinn faoi Mhíchumas agus Difríocht Foghlama

Má tá mhíchumas/difríocht foghlama ort a chreideann tú gur chóir aird na hOllscoile a dhíriú ortu, cuir tic sa chuid seo ar fhoirmin iarratas an CAO. Téigh i dteagmháil le do thoil, le Seirbhísí Tacaíochta Míchumais OTM chun áiseanna, tacaíochtaí agus cónroíocht réasúnta a phlé.

Scrúduithe Fágála Scoile Eile

Ba chóir d’iarratasóirí a chuaigh faoi scrúduithe fágála scoile lasmuigh d’Éirinn, a chaighfhearr scrúduithe in Éirinn nó sa RA roimh 1985 nó a rinne an ATF, Gairmcháilteoirí Náisiúnta Ginearálta (GNVQ), Gairmcheistísaí Oideachais (VCE), nó scrúduithe maitheasacha Éireannacha iarratas a dhéanamh chuig an CAO. Déanfaidh an CAO na hiarratasí seo agus na pointí dámhacht a mheas atá cotheachtaíseach leoidiú a thabhairt ar iarratasóirí ag a bhfuil Ardteistiméireacht na hÉireann. Féach ar www.cao.ie chun tuilleadh eolais a fháil.
Disability Access Route to Education (DARE)
The Disability Access Route to Education (DARE) is a third level alternative admissions scheme for school leavers whose disabilities have had a negative impact on their second level education. DARE offers reduced points places to school leavers who, as a result of having a disability, have experienced additional educational challenges in second level education.

Who can apply to DARE?
DARE is for school leavers under the age of 23 as of 1st January 2022 with a disability, who have been educationally impacted as a result of that disability.

Applicants to DARE can present with an Irish Leaving Certificate, A-Levels and/or other EU qualifications. Mature students and students applying on the basis of Further Education and Training (FET) results have different admission routes.

What types of disabilities does DARE consider?
- Attention deficit disorder (ADD)/Attention deficit hyperactivity disorder (ADHD)
- Autistic spectrum/Asperger’s
- Blind/vision impaired
- Deaf/hard of hearing
- Developmental coordination disorder (dyspraxia/dysgraphia)
- Mental health condition e.g. depression, bipolar, anxiety
- Neurological condition e.g. brain injury, epilepsy
- Physical disability e.g. arthritis, cerebral palsy
- Significant on-going illness e.g. diabetes type 1, cystic fibrosis, chronic fatigue
- Speech and language communication difficulty
- Specific learning difficulty (including dyslexia and dyscalculia)

How to apply to DARE?
DARE applications can only be made online at www.cao.ie. On the year of entry, applicants are required to:

1. By 5.15 pm on 1st February, apply online to CAO.
2. By 5.15 pm on 1st March, please disclose your disability/specific learning difficulty in your CAO application and fully and correctly complete section A of the supplementary information form (SIF).
3. By 5.15 pm on 1st March, apply to DARE and you must answer YES to question 1 on section A of the fully completed SIF.
4. By 5.15 pm on 15th March, please submit all relevant documents required to complete your application to the CAO.

What are the benefits of DARE?
If you apply to DARE and meet the application criteria (that is, are deemed eligible for DARE) you may be offered a place even if you do not have enough Leaving Certificate points for your preferred course. Each participating college and university has a reserved number of places to offer eligible DARE applicants at lower or reduced Leaving Certificate points. If you have one or more of the disabilities listed above and your disability has had a negative impact on your second level education, then you should apply to DARE.

To be eligible for DARE you must meet both the DARE educational impact criteria and DARE evidence of disability criteria. For further information please refer to www.accesscollege.ie

MTU Cork Campus
T: +353 (0)21 433 5138
E: darecork@mtu.ie

MTU Kerry Campus
T: +353 (0)66 714 5636
E: dareky@mtu.ie

Students with Disabilities and Learning Difference
If you have a disability/learning difference which you believe should be brought to the attention of the University, please tick this section on the CAO application form. Please contact the MTU Disability Support Services to discuss facilities, supports and reasonable accommodations.

MTU Cork Campus
T: +353 (0)21 433 5138
E: DSSCork@mtu.ie

MTU Kerry Campus
T: +353 (0)66 719 1722
E: supportservicesKerry@mtu.ie

Other School Leaving Examinations
Applicants who have taken school leaving examinations outside Ireland, who took Irish or UK examinations pre-1985 or who took LCAP, GNVQs, VCEs, or Irish matric examinations should apply to the CAO. The CAO will evaluate these applications and award points which are equivalent to those awarded to Irish Leaving Certificate applicants. Please refer to www.cao.ie for further information.
Iarratasóirí Ídirnáisiúnta

Iarratasóirí AE

Féadfaidh iarratasóirí AE iarratas a dhéanamh ar chúrsa sa chéad bliain ag OTM tríd an CAO. Caithfidh cáilíochtaí atá colbhíseach le h'Ardeistiméireacht na hÉireann a bheith ag na mic léinn seo. Déanann an CAO meastóireacht ar na cáilíochtaí.

Tá táíili teagaisc an AE bunaithe ar chónaitheach agus ní ar shaoránacht. Caithfidh tú a bheith i do chónaitheoir cánach lánaimseartha i dtír AE ar feadh 3 bliana de ré na 5 bliana de. Cónaitheach a bhfuil cónaitheach trí Oifig Idirnáisiúnta OTM lena mbaineann.

Iarratasóirí neamh-AE

Féadfaidh saoránaigh AE iarratas a dhéanamh tríd an CAO má tá feidhm aige tríd an CAO a bhfuil aon díon sa bhun a bhfuil cumhacht cáilíochtaí go mór le hArdteistiméireacht na hÉireann.

1. Iarratasóirí ar chúrsaí ar Champas OTM Chorcaí
   Bliain Fochéime 1:
   - IELTS 5.5 (5.0 ar a laghad in aon bhanda ar feadh)
   - PTE Acadúil 42
   - Iarchéim
   - IELTS 6.0
   - PTE Acadúil 50

2. Iarratasóirí ar chúrsaí ar Champas OTM Chiarraí
   - Leibhéal 1 – Gach clár fochéime + clár innealtóireachta + clár iarchéime
   - Leibhéal 2 – clár iarchéime sna meáin + in ngnó

Ni mór dó iarratasóirí ar bith atá atá ina chúrsaí ar chúrsaí an AE a bhfuil cónaitheach trí Oifig Idirnáisiúnta OTM lena mbaineann.

Chun eolas a fháil ar riachtanais agus iarratais maidir le hiontráil, déan teagmháil le do thoil, le

Campas OTM Chorcaí
R: internationalCork@mtu.ie

Campas OTM Chiarraí
R: internationalKerry@mtu.ie

Riachtanais Teanga


Tabhair faoi deara le do thoil, fiú mura dheastaionn Scrúdú Inniúlachta Béarla uait chun dul isteach in OTM, b'fhéidir go mbeidh ort ceann a thaispeáint chun críocho viosa. Mar sin déan cinnte go seiceálann tú na riachtanais viosa a bhaineann le do thairg.

Is iad seo a leanas na hioscheideáin Béarla do mhic léinn ionchasacha idirnáisiúnta (nach cainteoir dúchais Béarla iad) ar mian leo staidéar a dhéanamh ag OTM:

Iarratasóirí ar chúrsaí ar Champas OTM Chiarraí
Bliain Fochéime 1:
- IELTS 5.5 (5.0 ar a laghad in aon bhanda ar leith)
- PTE Acadúil 42

Ardiontráil (iontráil dhíreach go bliain 2, 3 nó 4)
- IELTS 6.0
- PTE Acadúil 50

Iarchéim
- IELTS 6.0
- PTE Acadúil 50

Bunleibhéil Béarla
- IELTS 4.5
- PTE Acadúil 30

Iarratasóirí ar chúrsaí ar Champas OTM Chorcaí
Leibhéil 1 – Gach clár fochéime + clár innealtóireacht + clár iarchéime + matamaitice + eolaíocht ríomhaireachta
Leibhéil 2 – clár iarchéime sna meáin + in ngnó

Leibhéil 1
- IELTS 6.0 gan aon chuid faoi bhun 5.5
- PTE Acadúil 59 gan aon chuid faoi bhun 56
- TOEFL 80 le scóir íosta: Éisteacht- 17; Léitheoireacht – 18; Labhairt – 20; Scribhneoireacht – 17

Leibhéil 2
- IELTS 6.5 gan aon chuid faoi bhun 6.0
- PTE Acadúil 63 gan aon chuid faoi bhun 59
- TOEFL 90 le scóir íosta: Éisteacht- 23; Léitheoireacht – 21; Labhairt– 22; Scribhneoireacht – 23
**International Applicants**

**EU Applicants**

EU applicants may apply for entry to first year of a course at MTU via the CAO. Such students must hold qualifications equivalent to the Irish Leaving Certificate. Qualifications are evaluated by the CAO.

EU tuition fees are based on residency and not citizenship. You must be a full-time tax resident in an EU country for 3 out of the last 5 years to be considered for EU fees. Residency for the purpose of education is excluded. If you enter a course as a non-EU student this will be your status for the duration of the course.

EU citizens who have resided outside the EU for more than 3 years of the previous 5 years, should apply via the relevant MTU International Office.

**Non-EU Applicants**

Non-EU citizens may also apply via the CAO if any of the following apply:

1. Those currently living in Ireland, or any of the current 27 EU member states, and who have been doing so for more than three out of the previous five years, and have a STAMP4EU
2. Applicants who have been granted humanitarian or refugee status and are currently living in Ireland
3. Parents of an Irish born child

Any applicant who is currently, or has in the past 5 years been, resident outside the EU, must contact the appropriate MTU Admissions Office to enquire whether they should apply via the CAO or direct to the University and to obtain information on the course of study they wish to pursue. Such enquiries should be made well in advance of the CAO closing date of 1st February, at 5.15pm, and preferably not later than the previous 15th December.

Non-EU citizens residing outside of the EU should apply via the MTU International Office.

For entry requirements and applications, please contact:

**Non-EU Applicants**

**Language Requirements**

Lectures at MTU are delivered through English. All applicants whose first language is not English must provide evidence of English language proficiency. English language tests must be undertaken no more than two years prior to the start of a programme.

Please note even if you do not require an English Language Proficiency Exam for entry to MTU you may be required to provide one for visa purposes so please ensure you check visa requirements for your country.

The minimum English language standards for prospective international students (non-native English speakers) who wish to study at MTU are as follows:

**Applicants to Courses at MTU Kerry Campus**

**Undergraduate Year 1:**

IELTS 5.5 (No less than a 5.0 in any one band)

PTE Academic 42

**Advanced Entry (direct entry to year 2, 3 or 4)**

IELTS 6.0

PTE Academic 50

**Postgraduate**

IELTS 6.0

PTE Academic 50

**Foundation English**

IELTS 4.5

PTE Academic 30

**Applicants to Courses at MTU Cork Campus**

**Level 1**

All undergraduate programmes + postgraduate engineering, mathematics and computer science programmes

IELTS 6.0 with no section below 5.5

PTE Academic 59 with no section below 56

TOEFL 80 with minimum scores: Listening – 17; Reading – 18; Speaking – 20; Writing – 17

Cambridge English Qualifications 169 with no section below 162

C2 Proficiency (CPE) 180 with no section below 162

**Level 2**

IELTS 6.5 with no section below 6.0

PTE Academic 63 with no section below 59

TOEFL 90 (with minimum scores: Listening – 23; Reading – 21; Speaking – 22; Writing – 23

Cambridge English Qualifications 176 with no section below 169

C2 Proficiency (CPE) 180 with no section below 169
Tástaílontrála

Dátaileonaladachadontástaílontrála
1. BMus (Onór.): Dé Sathairn 9 Aibreán 2022
2. BA (Onór.) sa Cheol Mórélímh: Déardaoin 7 go Satharn 9 Aibreán 2022
3. BA (Onór.) i dTéatar an Cheoil: Déardaoin 7 go Satharn 9 Aibreán 2022
4. BA (Onór.) i Staidéar Téatair & Drámaíochta: Dé hAoine 8 go Satharn 9 Aibreán 2022

Tá sonraí faoi gach Tástaílontrála ar fáil ar leathanaigh gach cúrsa ar leith ag http://csm.mtu.ie

NB: Ní cheadaitear d’iarrthóirí torthaí na tástaíontrála a chur siar ó bhliain go chéile.

Déantar tairiscintí atá bunaithe ar thorthaí éisteachta/measúnaithe d’iarrtasóirí a chomhlíonann na riachtanais iontrála acadúla ista, i.e. Ardteistiméireacht i sé ábhar (H5 i ndá ábhar,agus O6/H7 i gceithre ábhar eile). Caithfidh Béarla nó Gaeilge a bheith ar cheann de na hábhair.

Ní mór d’iarrtasóirí teacht i láthair le haghaidh éisteachta/measúnaithe de réir na riachtanas a bhainean go sonach leis an gcéim atá i gceist. Marcálfar na héisteachtaí agus na measúnuithe agus beidh uasmhéid 600 pointe ar fáil.

Cuífar na pointi a leithdháifear ar an éisteacht/measúnú in iúl don CAO agus seolfa raiad ar ríomhphost chuig an iarrtasóir faoi dheireadh Mhí Bhhealtaine.

Nuair a bheidh torthaí na hArdteistiméireachta ar fáil, déanfaidh an CAO tairiscintí ar an gnáthbhealach.

Nuair a chláraitear don chúrsa beidh ar gach mac léinn rathúil dul faoi ghrinnfhiosrúcháin an Gharda Síochána.

Ceol MT 936
Is é atá i gceist leis an tástaí lontrála ná taibhiú agus páipéar scroifa a dhéileáil le huraiceacht, teicníc cumadóireachta (armóin), eolas ó chluas agus eolas ginearálta ar an gceol. Is féidir samplai de pháipéar scroifa na tástaí lontrála a íoslódáil ag http://csm.mtu.ie/bmus-bachelor-of-music nó is féidir iad a iarraidh ón Riarthóir, Scoil Cheoil Chorcaí OTM, Cé na hAontachtá, Corcaigh (r-phost csminfoCork@mtu.ie).

Tugtar breac-chuntas ar riachtanais shonrach do cheoltóirí urlíse agus d’amhránaíte sa láithreacha Shamplach. Tabhair faoi deara gur chuir d’amhránaíte Snagcheol agus Pop iarratas a dhéanamh ar MT 937.

Ceol Mórélímh MT 937
Ceanglófar ar iarratasóirí éisteachta a thabhairt ar an urús atá atá roghnaithe acu; dul faoi agallamh; agus páipéar measúnuithe scroifu dhéanamh. Tá na sonraí ar fáil ag http://csm.mtu.ie/bapm

Téatar an Cheoil MT 938
Iarrfar ar iarratasóirí éisteachta a thabhairt ar an urús, aisteoireachta agus damhsa a thabhairt. Tá na sonraí ar fáil ag http://csm.mtu.ie/bapm

Staidéar Téatair & Drámaíochta MT 939
Iarrfar ar iarratasóirí éisteachta aisteoireachta a thabhairt agus dul faoi agallamh. Tá na sonraí ar fáil ag http://csm.mtu.ie/batds
Entrance Test

Provisional dates for Entrance Test
1. BMus (Hons): Saturday 9 April 2022
2. BA (Hons) in Popular Music: Thursday 7 to Saturday 9 April 2022
3. BA (Hons) in Musical Theatre: Thursday 7 to Saturday 9 April 2022
4. BA (Hons) in Theatre & Drama Studies: Friday 8 to Saturday 9 April 2022

For details of each Entrance Test visit the individual course pages at http://csm.mtu.ie

NB: Candidates are NOT allowed to defer the results of the entrance test from one year to the next.

Offers are made based on audition/assessment results to applicants who meet academic minimum entry requirement, i.e. a Leaving Certificate in six subjects (H5 in two subjects, and O6/H7 in four other subjects). One of the subjects must be English or Irish.

Applicants must present for audition and assessment as per the degree-specific requirements. The auditions and assessments will be marked with a maximum of 600 points being available.

The points allocated to the audition/assessment will be communicated to the CAO and emailed to the applicant by the end of May. When the Leaving Certificate results become available, the CAO will make offers in the usual manner.

Upon registration for the course each successful student will be required to undergo Garda Vetting.

Music MT 936
The entrance test involves a performance and a written paper dealing with rudiments, compositional techniques (harmony), aural, and general musical knowledge. Samples of the entrance test written paper are available to download at http://csm.mtu.ie/bmus-bachelor-of-music or upon request from the Administrator, MTU Cork School of Music, Union Quay, Cork (email csminfoCork@mtu.ie).

Specific requirements for instrumentalists and singers are outlined in the Sample Entrance Test. Please note Jazz and Pop singers should apply for MT 937.

Popular Music MT 937
Applicants will be required to audition on their chosen instrument; undergo an interview; and sit a written assessment paper. Details may be found at http://csm.mtu.ie/bapm

Musical Theatre MT 938
Applicants will be required to audition in singing; acting; and dance. Details may be found at http://csm.mtu.ie/bamt

Theatre & Drama Studies MT 939
Applicants will be required to audition in acting and undergo an interview. Details may be found at http://csm.mtu.ie/batds
Coláiste Ealaíne & Dearaidh OTM
Crawford Riachtanaíson Iontrála Shonracha
http://crawford.mtu.ie

Undergraduate Entry 2022

Maidir leis an BA (Onór.) san Ealaín Fheidhmeach Chomhaimseartha (Criadóireacht, Gloine, Teicstíli) MT 820, BA (Onór.) sa Mhínealaín MT 821, BA (Onór.) sa Ghrianghrafadóireacht le Meáin Nua MT 822, agus an BA (Onór.) sa Chumarsáid Amharc MT 823, déantar tairiscinti atá bunaite ar thorthaí punainne d’iarratasóirí a chomhlíonadh na riachtanais acadúla iontrála iosta, i.e. Ardteistiméireacht i sé ábhar (H5 i ndá ábhar,agus O6/H7 i gceithre ábhar eile). Caithfidh Béarla nó Gaeilge a bheith ar cheann de na hábhair.

Mar mhalairt air sin, ba cheart go mbeadh aon mhórdhámhacht DCCÉ/CDBOO ag iarratasóirí a chuimsíonn 8 n-ábhar le 3 Ghradam.

Ni mórd’iarratasóirí ar na cúrsaí thuaslaite punann oibre a chur í láthair le hagairt na haghaidh measúnaithe. Marcáfar an phunann agus beidh uaimheáidh 600 pointe ar fáil ar fáil i na tutóirí agus mar mhór a bheith ar cheann de na hábhair.

Is é an spriocdháta d’eartasóirí atá ag cur isteach tríd an CAO 5:15pm, 1ú Feabhra. Ina dhiaidh sin gheobhaidh siad cuireadh a bpunannacha a chur isteach le haghaidh na tíre íosta san Ardteistiméireacht.

Glacfaidh Coláiste Ealaíne agus Dearaidh OTM Crawford le hiarratais ó iarratasóirí lánfhásta suas go dtí an 1ú Bealtaine ag 5:15.

Cuirfear na pointí a leithdháiltear ar an bpunann in iúl trí ríomhphost chuig an CAO agus chuig an iarratasóir faoi dheireadh mhi Bhealtaine. Nuair a bheidh torthaí na hArdteistiméireacht ar fáil, déanfaidh an CAO tairiscinti ar an ghnáthbhealach.

Riachtanaíson Iontrála Shonracha Choláiste Náisiúnta Mara Na Háireann
www.nmci.ie

Reáchtalann Roínn Staidéir Mhuirí an Choláiste Náisiúnta Mara tri chlár CAO:

• MT 765 Lecitricteineolaiocht Mhuirí
• MT 764 Innealtóireacht Mhuirí
• MT 766 Eolaiochta Loingseoireachta

Chun iontráil ar chlár, ní mórd gonáthiarratasóirí leis na pointí riachtanacha CAO a scórais, beidh torthaí a chomhlíonadh le haghaidh na haghaidh gairme agus na rudaí a bhfuil in ann.

Nóta 1: De ghnáth ní bhiónn an clár ar fáil a chur sa shaoránacht an hedgeire an hedgeire agus do shaoránaigh AE a bhfuil gnáthchónaí orthu in Éirinn.

Nóta 2: Caithfidh éiri le hiarrratasóirí id labs de phaighne mhoiche agus radharc súil faoi síos de chosaint taispeántasiniúntaí agus radharc súil tráth na taispeáint.

Nóta 3: Ní foláire d’iarratasóirí, seachas iad a thugtar i Nóta 1, urraíocht a tháitir chun éiri a chur i gcurtha is ar dtús na cuairt. De ghnáth seóraíonn an scórais ina dtír sa shaoránacht.

Nóta 4: Ba chóir d’iarratasóirí tabhairt faoi dhea ríomhaíochta le gniomhála tháitire eile a bhaint as do náisiúntaí agus do shaoránaigh AE a bhfuil gnáthchónaí orthu. Beidh torthaí a chomhlíonadh ar fáil de réir na scéimeanna is mó d’estaitéar.

Nóta 5: Ba chóir d’iarratasóirí aonad na shaoránaigh an hedgeire a chur sa shaoránacht.
MTU Crawford College of Art & Design
Specific Entry Requirements

http://crawford.mtu.ie

For the BA (Hons) in Contemporary Applied Art (Ceramics, Glass, Textiles) MT 820, BA (Hons) in Fine Art MT 821, BA (Hons) in Photography with New Media MT 822, and the BA (Hons) in Visual Communications MT 823, offers are made based on portfolio results to applicants who meet the academic minimum entry requirements, i.e. a Leaving Certificate in six subjects (H5 in two subjects, and O6/H7 in four other subjects). One of the subjects must be English or Irish.

Alternatively, applicants should have any QQI/FETAC major award comprising 8 subjects with 3 Distinctions.

Applicants for the above named courses must present a portfolio of work for assessment. The portfolio will be marked with a maximum of 600 points being available for it. A minimum of 240 (40%) points must be obtained in the portfolio assessment in order for an applicant to be eligible for the course.

The deadline for applicants applying through the CAO is 5.15pm, 1st February, after which they will receive an invitation to submit their portfolio for assessment in March.

MTU CCAD will accept applications from mature applicants up to the 1st May at 5.15pm.

The points allocated to the portfolio will be communicated by email to the CAO and to the applicant by the end of May. When the Leaving Certificate results become available, the CAO will make offers in the usual manner.

National Maritime College of Ireland
Specific Entry Requirements

www.nmci.ie

NMCI’s Department of Maritime Studies runs three CAO programmes:

• MT 765 Marine Electrotechnology
• MT 764 Marine Engineering
• MT 766 Nautical Science

For admission to a programme, standard applicants must score the necessary CAO points, meet the minimum entry Leaving Certificate requirements, and note the following:

Note 1: The programme is normally available only to Irish citizens and EU citizens who are ordinarily resident in Ireland.

Note 2: Applicants must pass the approved medical fitness and eyesight tests as specified by the Irish Maritime Administration of the Department of Transport, and are strongly advised to attend a career advisory session. Offer of a place on the course will be subject to passing the medical and eyesight tests at the time of offer.

Note 3: Applicants, other than those indicated in Note 1, must be sponsored by an approved internationally trading shipping company, provide an IELTS score of 6.5, and also meet the medical and eyesight requirements for a sea going career.

Note 4: Applicants should note that in order to qualify for an Officer of the Watch Certificate of Competency (CoC), the Department of Transport has set additional criteria with respect to minimum pass marks, academic progression, and students with dyslexia.

See Marine Notice No. 65 of 2013 (www.gov.ie)

Note 5: Applicants who are non-Irish citizens should ensure that they qualify for the issue of a Seafarer’s Discharge Book in their country of citizenship.
Tá an Ollscoil sonraí maidir le clárú ar líne nó ar pháipéar d'iarratasóirí a chur in éicimidh de na laethanta sonraithe ón spriocdháta faoina gcathair orthu. Ní mór do mhic léinn an clárú agus an íocaíocht ar líne nó ar pháipéar a chomhlánú laistigh de na chúrsaí. Chuirtear an ch打扮iú agus an áit aghaidh leis an t-iarratasóir gceobhái ach ní féidir leis an iarratasóir a dhuineadh i bprathanna heachmhaíochta. Ó Bhliant 2022, tá an iarratasóir in ann cinntiú gur féidir le haghaidh le haghaidh laistigh de na chúrsaí a chur i bhfeidhm áfach. An t-iarratasóir a tharlaíodh i bhfeidhm dó féin i Meán Fómhair 2022, ní féidir leis an iarratasóir a dhuineadh mar bhfuil duine eile den ollscoil den spriocdháta air féin. Cé go bhfuil an t-iarratasóir in ann a bhaint as an t-aon rogha, tá an t-iarratasóir in ann an t-áit a thabhachtadh leis an iarratasóir a dhéanamh d'adhóireadh do mhic léinn. Bhí an t-iarratasóir in ann a bhaint as an t-áit a thabhachtadh leis an t-iarratasóir a dhéanamh d'adhóireadh do mhic léinn.

Toradh a chur i bhfeidhm le haghaidh le haghaidh.

Sa chás go dteipeann an t-iarratasóir clárú laistigh den tréimhse ama shonraithe a leagtar síos, tá an Ollscoil in dteideal glacadh leis an t-iarratasóir. Ní féidir d'iarratasóirí a chur i bhfeidhm ó nácaimh a thabhairt dó d'fhéadfaidh an bhfoirgnimh air féin.

Áit a chur síor

Déanfaidh an Ollscoil iarracht chun éascaíocht a dhéanamh d’íarratasóirí rathúla a chur i bhfeidhm.

Seo a leanas an nós imeachta chun íontráil a chur síor:
1. Níor cheart d’íarratasóirí clárú leis an t-áit a tharlaíodh tríd an CAO
2. Ní mór d'íarratasóirí ríomhoirphost a scriobh nó scriobh chuig Ógíof iontrála OTM maidir leis an áit atá roghnaithe acu chuig staidéir agus an chúrsaí/na cúiseanna a mhíniú atá leis an iarratasóir.

Ógíof Iontrála
Ollscoil Teicneolaíochta na Mumhan
Campanas Bhaile an Easpaig Chorcaigh
Co. Chorcaí
T12 P928
R: admissionsCork@mtu.ie

Ógíof Iontrála
Ollscoil Teicneolaíochta na Mumhan
Campanas Thuaidh
Trá Lí
Co. Chiarraí
V92 HDV4
R: admissionsKerry@mtu.ie

Scríobh IONTRÁIL CURTHÁ SIAR i line ãbhair do riomhphoist nó go soilleir ar an gcuidhachta. Cinnigh le do thoil go luafadh tu d’úimhir iarratais CAO agus cóid cúrsa na tairisceana is mian leat a chur síor. Càithfidh an r-phantóir teacht chuig an Ógíof Iontrála do lámh lámh eile an dath a tháinig air féin.

Má dheaonaithe an iarraidh ar iarchur, ní mó d’íarratasóirí:
• athiarratas a dhéanamh ar an gcúrsa tríd an CAO faoin 1 Feabhra 2023 (mar iarratasóir iarchurtha - ach ní cheanglaítear orthu na sonraí bhaiteachta go leor a chur isteach ar an t-iarratasóir)
• cur san áireamh san iarratas an cúrsa ar deonaíodh iarchur dó i Meán Fómhair 2022 mar an chéad rogha agus an t-aon rogha ar fhóirm iarratais an CAO. Mura ndéantar amhlaidh chaithrudhach iarchur an t-iarchur in éag
• féadfaidh tú iarratas nua a dhéanamh i Meán Fómhair 2022 agus roint curtais ar iarchur do lámh leathach ach ní féidir leat leas a bhaint as an iarchur a deonaíodh i Meán Fómhair 2022.

Ní chéad aithne a tháinig air féin.

Iarratasóirí atá ag tabhacht faoi cheim bhaitsiléara breiseáin nó clár céime bhaitsiléara onóracha breiseáin

Bhí an t-iarratasóir in ann a bhaint as ardhiontráil i bhfeidhm féin i Meán Fómhair 2022. Bhí an t-iarratasóir in ann a bhaint as ar dhéanamh d'adhóireadh do mhic léinn. Bhí an t-iarratasóir in ann a bhaint as ar dhéanamh d'adhóireadh do mhic léinn.

Iarratasóirí ar mian leo leas a bhaint as ar dháontráil

Féadfaidh iarratasóirí ar mian leo leas a bhaint as ar dháontráil isteach i mblain beirneachta 2 do chúirt ab-iníon 3 bliana nó 4 bliana iarratas a dheanamh go díreach chuig an CAO ag an nasc seo a leanas www.cao.ie. Leanfaidh mic léinn OTM atá ann cheana orthu ag déanamh iarratasóirí tríd an ollfiocht a bhfuil ann mar dtaighdeanna.

Iarratasóirí atá ag tabhacht faoi cheim bhaitsiléara breiseáin nó clár céime bhaitsiléara onóracha breiseáin

Bhí an t-iarratasóir in ann a bhaint as ar dhéanamh d'adhóireadh do mhic léinn. Bhí an t-iarratasóir in ann a bhaint as ar dhéanamh d'adhóireadh do mhic léinn.
Acceptance and Registration Procedures

The University issues details in relation to online or paper registration to successful applicants who have accepted places on courses, and students must complete the online or paper registration and payment within the specified days of the deadline for close of acceptance offers. Successful applicants should ensure that they read all of the relevant documentation online (www.mtu.ie), as it will contain requirements that are specific to some programmes, and are a mandatory part of the registration process.

Where an applicant fails to register within the specified time stipulated, the University is entitled to assume that the applicant has withdrawn his/her application and the applicant accepts that the University may offer the place to the next student on the waiting list. Students cannot be validly registered on any course at MTU unless they confirm when registering online that they are familiar with, and will abide by, the student’s rights and responsibilities as set out in the student handbook and that they have signed and dated this affirmation on their registration form.

Deferring a Place

The University will try to facilitate successful applicants who wish to postpone entry.

The deferral procedure is as follows:
1. Applicants should not accept the offer through the CAO.
2. Applicants must e-mail or write to the MTU Admissions Office of your choice of study location, setting out the reason(s) for your request.

Deferring a Place

Write DEFERRED ENTRY in the subject line of your email or clearly on the envelope. Please ensure that you quote your CAO application number and the course code of the offer that you wish to defer. The e-mail/letter must arrive in the Admissions Office at least two days before the “reply date” shown on the CAO offer notice. MTU will communicate its decision to you in writing within three working days.

If the request for deferral is granted, applicants are required to:
• re-apply for the course through the CAO by 1st February 2023 (as a deferred applicant – but are not required to submit all relevant data again);
• include in the application the course for which deferral has been granted in September 2022 as the first and only choice on the CAO application form, otherwise the deferral lapses;
• you may make a new application through CAO, listing a number of courses, but in this case you may not avail of the deferral granted in September 2022.

Applicants are NOT allowed to defer the results of the entrance test from one year to the next for the following courses in MTU Cork School of Music:
MT 936 Bachelor of Music (Honours)
MT 937 BA (Honours) in Popular Music
MT 938 BA (Honours) in Musical Theatre
MT 939 BA (Honours) in Theatre and Drama Studies

Applicants pursuing add-on bachelor degree or an add-on honours bachelor degree programme

If you wish to pursue a course of study as an external applicant for an add-on bachelor degree or an add-on honours bachelor degree programme, you may apply directly to the CAO at the following link www.cao.ie. Existing MTU students will continue to apply via the relevant MTU admissions office.

Applicants who wish to avail of advanced entry

Applicants who wish to avail of advanced entry into year 2 of a 3 year or 4 year ab-initio programme may apply directly to the CAO at the following link www.cao.ie.
Scéim ACCS

Is acraíonn é ACCS chun creidmheasanna a charndh agus chun ábhair a dheargadh. Ligeann an scéim ACCS do mhic léinn staidéar a dhéanamh ar chuid de chlár lánaimseartha agus chun ábhair a thugtar faoi náisiúnta a baint amach, mar shampla ar dtús, a bhaint amach go náithi, a bhaint amach ar dhéanamh agus a bhaint amach ar dhuineóirí, a bhaint amach ar dhuineóirí, a bhaint amach ar dhuineóirí, a bhaint amach. De ghnáth, bhíonn 60 creidmheas ag gabháil le gach céim den chlár, i.e. 60 creidmheas a ghabhann le bliain 1, 60 creidmheas ag gabháil le bliain 2. Nic mór 120 creidmheas a bheith a dhéanamh ar bhonn páirtaimseartha.

Dhe ghnáth, bhíonn 60 creidmheas ag gabháil le gach céim den chlár, i.e. 60 creidmheas a ghabhann le bliain 1, 60 creidmheas ag gabháil le bliain 2. Nic mór 120 creidmheas a bheith a dhéanamh ar bhonn pártaimseartha.

Aitheantas ar Réamhfhoghlaim (RPL)

Feidhmióin an Ollscoil beartas a cheadh aon aithint ar réamhfhoghlaim, idir fhoghlaim fhoirmiúil agus neamhfhoirmiúil. Cuimsionn fhoghlaim neamhfhoirmiúil agus fhoghlaim ó thaithioidh neamhfhoirmiúil, oiliúint obairbhunaithe agus taithi abhartha saoil/obaire.

Grinnfhiosrúchán an Gharda Síochána (An tAcht Leanaí agus Daoine Soghonta 2012)

Cuireann an Ollscoil roinnt clár ar fáil ina bhfuil ar mhic léinn socrúcháin a dhéanamh mar chuid éigeantach den chlár. Chun cosaint an phobail a choinnú agus chun iontaoibh agus muinín an phobail a choinnú, tá an Ollscoil tiomanta a chinntiú nach gceadaítear ach do mhic léinn oiriúinacha socrúchán oibre a dhéanamh ina mbindon teagmháil ach le leanaí nó le daoine fásta leochálaíochta. Chun a chinntiú nach seiltear ach mic léinn oiriúnachacht a bhaint amach, eilíonn an Ollscoil ar mhic léinn ar chúrsaí de chúrsaí a bhaint amach.

Le haghaidh tuilleadh eolais déan dean teagmháil le

Campas OTM Chorcaí
R: admissionsCork@mtu.ie

Campas OTM Chiarraí
R: admissionsKerry@mtu.ie
ACCS Scheme

ACCS is an acronym for accumulation of credits and certification of subjects. The ACCS scheme allows students to study a portion of a full-time programme in a part-time mode. Students can gain credits for each module successfully completed and accumulate those credits, over-time, towards a nationally recognised award such as a higher certificate or an ordinary degree or an honours degree. All students will receive single subject accreditation for each module that they complete.

Generally, there are 60 credits attached to each stage of the programme i.e. 60 credits attached to year 1, 60 credits attached to year 2 etc. Successful completion of a higher certificate programme (2 years full-time) requires completion of 120 credits; an ordinary degree (3 years full-time) requires successful completion of 180 credits and an honours degree (3 or 4 years’ full-time) requires successful completion of 240 credits. Students participating in the ACCs scheme sit in class with students completing the programme on a full-time basis.

The ACCS route may suit those who wish to study part-time by day, e.g.
• Those who wish to up-skill in just one or a few of the modules from a full-time programme, but who do not wish/need to take the entire programme
• Those who cannot commit to full-time study but are prepared to undertake part, or all, of a course over an extended period on a part-time basis
• Successful RPL Applicants who have gained recognition for prior learning and who now wish to study for the remaining credits to achieve an award

All applicants must meet the minimum academic entry requirements for the programme of study they wish to pursue.

Note: The ACCS route is not open to CAO applicants who were ineligible i.e. they did not receive an offer of a place via CAO, as they either did not meet the entry criteria or did not have sufficient points in their examination results.

Tuition fees are charged on a pro-rata basis and the fees are set each August by the Department of Education.

For further information contact

MTU Cork Campus
E: admissionsCork@mtu.ie

MTU Kerry Campus
E: admissionsKerry@mtu.ie

Recognition of Prior Learning (RPL)

The University operates a policy that allows for the recognition of prior learning, both formal and informal learning. Informal and experiential learning includes nonaccredited education, work based training and relevant life/work experience. This learning is assessed and this assessment may lead to academic credits, exemption from subjects on intended course of study or places on particular courses of study. Applicants are required to compile a portfolio of evidence demonstrating how they have achieved the learning outcomes of a particular module within a programme or how they meet the entry requirements of a programme of study. The University is committed to providing support and assistance to guide the learner through the RPL application and/or in compiling the portfolio. Applications for RPL are dealt with on an individual basis once a student has registered on a particular course. Applicants should contact the relevant head of department well in advance of their intended entry date.

Garda Vetting (Children and Vulnerable Persons Act 2012)

The University provides a number of programmes where students are required to do a placement as a mandatory part of the programme. To ensure the protection of the public and to justify public trust and confidence, the University is committed to ensuring that only suitable students are allowed to undertake work placements which involve contact with children or vulnerable adults. To ensure that only suitable students are sent on work placement, the University requires students registering on these programmes to complete the online Garda vetting process. Satisfactory Garda vetting is a mandatory part of registration for these programmes. Failure to obtain satisfactory Garda vetting will result in deregistration. Any offence and/or conviction arising after the student has been registered must be disclosed to the University immediately. The University reserves right to review the registration status of a student in light of additional information received subsequent to registration. Additional courses may be included each year at the discretion of the University and the nature of the work placement.
Contact Information

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<tr>
<th>BISHOPSTOWN CAMPUS</th>
<th>KERRY</th>
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<tr>
<td>Main Switchboard</td>
<td>021 432 6100</td>
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<tr>
<td>Admissions</td>
<td>021 433 5040</td>
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<td>Academic Learning Centre</td>
<td>021 433 5098</td>
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<td>Access Office</td>
<td>021 433 5138</td>
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<td>Accommodation Office</td>
<td>021 433 5750</td>
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<td>Alumni Office</td>
<td>021 432 6589</td>
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<td>Fees and Grants</td>
<td>021 433 5440</td>
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<td>International Office</td>
<td>021 433 5300</td>
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<td>Schools Liaison Office</td>
<td>021 433 5547</td>
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<td>Societies Office</td>
<td>021 433 5759</td>
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<td>Sports Office</td>
<td>021 433 5767</td>
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<td>Student Services</td>
<td>021 433 5388</td>
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<td>Students’ Union</td>
<td>021 433 5270</td>
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W: crawford.mtu.ie

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E: csm.infoCork@mtu.ie
W: csm.mtu.ie

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E: NMCI.admissions@mtu.ie
W: www.nmci.ie

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Note: Every effort has been made to ensure that the information herein is accurate. However, this prospectus does not infer or impose any legal obligations on Munster Technological University to provide courses or other services to students. It does not constitute an offer to supply modules, courses or subjects. Syllabi, fees, regulations or other information may be altered, cancelled or otherwise amended at any time. This prospectus does not confer any rights on any student registered in the University.

E&OE

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www.mtu.ie