### Quickguide to courses

**School of BUSINESS**

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**School of HEALTH SCIENCES**

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Disclaimer: All course titles and information listed are subject to change.
Minimum points: Based on 2018 Round 1 offers.
Points range: Shows the range of points achieved by students offered the course in 2018 Round 1 offers.
*AQA = All qualified applicants*
**School of HUMANITIES**

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**School of SCIENCE & COMPUTING**

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Disclaimer
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Produced by the Office of Marketing & Communications

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www.digicolphotography.com
Welcome from the President

I am delighted to welcome you to Waterford Institute of Technology (WIT). With a long tradition of leadership in education, WIT is constantly pushing the boundaries in response to the needs of our students, society and the economy.

It’s no accident that WIT is Ireland’s leading research-informed institute of technology with a global reputation for innovation and research excellence. The Institute has been focused on creativity and research innovation as a driver of the knowledge society for over 20 years and plays a key role in Ireland’s social, cultural and economic development.

We are committed to excellence in all aspects of our activities which include educating the next generation leaders through our undergraduate and postgraduate programmes; producing highly creative and industry-ready graduates; developing our internationally connected research and innovation eco-system; and evolving our unique model of stakeholder engagement which has had real impact on our economy.

The Institute leverages its national and international partnerships with other education institutes, industry, social and government bodies to ensure the international relevance and excellence of our teaching, research and innovation activities. As President I recognise also that we must be agile enough to be able to support multiple access paths to education as well as the need to deliver flexible modes of learning for an increasingly diverse student body.

Waterford Institute of Technology is a truly international environment with students from 70 countries and strategic collaboration partnerships with over 300 education and industry partners. We have created an exciting learning environment in the South East of Ireland.

I look forward to welcoming you to WIT. In our world you are not just a student but a member of a community which values all aspects of life: learning, sport, arts, community engagement and, above all, the person. Through education we open a world of endless possibilities which will challenge, excite and reward you.

Prof. Willie Donnelly
President / Uachtarán

Fáilte ón Uachtarán

Tá áthas orm féileadh a chur romhat chuig Institiúid Teicneolaíochta, Phort Láirge [WIT]. Téann traidsíúin na ceannaireachta atá ag an domhan san oideachas i bhfad siar agus mar seo tá WIT i d'fhúasadh i gcónaí agus i ag freagraí do ríachtanais ór mac léinn, na sochaí agus an gheilgeileagair.

Ní de thaisme atá Institiúid Teicneolaíochta Phort Láirge chun tosaigh in Éirinn mar institiúid teicneolaíochta a bhfuil taighde mar bhonn eolais aici, instiúid a bhfuil cló ar fud an domhain uirthi as ucht nuálaíochta agus barrfheabhasaigh taighde. Tá an Institiúid dírithe ar chruthaitheacht agus nuáil taighde agus sochaí an eolais a cur ar aghaidh aici le breis is 20 bliain anuas. Tá príomhhról aici i bhforbairt shóisialta, chultúrtha agus eacnamaíochta na hÉireann.

Táimid tiomanta do bharrfheabhasa in ngach gné dá dhrámaíochtaí agus dá n-áirítear oideachas a chur ar an chéad ghluin eile de cheannanna lenár gcuaidh chéime agus acharchéime; ag déanamh cemitéithe atá tarthar thar bheith chruthaitheach agus ullamh chun tabhairt faoin tionscal; ag forbarth ar n-éicicéachar aighde agus nuálaíochta atá nacach go hídhréasúnta; agus ag cuir chun cinn ar mór in oideachas do rannpháirtíocht luchtanna leasa, rud a bhfuil foróthchar imeartha aige ar a ngeilleagair.

Úsáideann an Institiúid a cuid comhpháirtíochtaí idirnáisiúnta le hinsitítítúid oideachais eile, leis an tionscal agus le heagraitheacht sósialta agus rialeatai chun a chinntiú go mbaineann ar gcuaidh gnuimhiaíochtaí teagaisc, taighde agus nuálaíochta le haghbar agus go bhfuil siad den scoth ar leibhéil idirnáisiúnta. Mar Uachtaráin is lèir dom leis, gur gá dthinne a bheith achtai a dhéanamh chun a bheith in ann tacú le cosaint rochtana iolracha chuig an oideachas, agus tuigim gur gá modhanna solúbtha floghlaí a sholáthar do phobal mac léinn a bhfuil a lighróítheachta ag dul i muid ríamh is choiche.

Timpeallacht fhoréadhríochtaí is ea Institiúid Teicneolaíochta Phort Láirge. Freastalaíonn mic léinn as 70 fhráirí uirthi agus tá camphléarbhíochtai cheanforbairtí straitéiseacha le breis is 300 camphléarbhíochtai oideachais agus tionscal againn. Tá timpeallacht floghlaí spreagthacht cruthaitheach againn i Ordheisceart na hÉireann.

Táim ag súil le fáilte a chur romhat go WIT. Sa domhan seo ag anáinse, ní máthair liom tá amháin ach is ball de phobal a bhfuil fíormheas aige ar gach gné den saol tú: floghlaí, spóirt, na healaíona, raonpháirtíocht an phobail agus, níos mó ná haon rud eile, an duine. Is trí oideachas a osclaíodh saol an domhanda gan teoiríonna duit, saol a chuirfheadh díthlaim romhat, a spreagfaidh tú agus a thabharfadh loch suítheoir duit.

Prof. Willie Donnelly
President / Uachtarán
Imagine making your dreams come true. Discover if one of our 70 CAO courses will get you on the pathway to the career and life you want.

Make the most of your undergraduate years by choosing a college with state-of-the-art facilities and a supportive and modern learning environment.

Allow yourself time to chill or be active between or after classes with games and movies at the WITSU Social or fitness classes at the WIT Arena.
Get off to a flying start with StartWIT, our orientation experience that helps first year students settle in and get to know the campus and their classmates.

Investing in your future? Our 1,000 employer links, award-winning Careers Centre, work placement and study abroad options contribute to the success of our graduates.

Nights out and plenty of things to do is key to college life. In Waterford city you have everything on your doorstep and a buzz of a city.

Every cent matters. Living in Waterford or commuting daily from home you’ll find you’ve more money in your pocket or savings for your future than in expensive big cities.
Waterford Walls has put the city on the creative, cultured and cool map with new urban art and graffiti installations added to the walls of Waterford every year.

#WaterfordWalls

Accommodation for students is in abundance and great value compared to other cities – make sure to book early to avail of our selection of city and college campus accommodation.

#StudyatWIT

Tramore is a beautiful sandy beach accessible by bus from Waterford city – an ideal way to spend a sunny evening after college.

#Tramore

Enjoy the great outdoors? Bring your bike along the Waterford Greenway which stretches across the county, drive along the Copper Coast or walk the Comeragh Mountains.

#WaterfordGreenway
Restaurants, theatres, cinemas, clubs, venues, an entertainment quarter and planned cultural quarter will help you become cultured, a vital part of the student experience.

#LoveWaterford

Firmly on the tourist map as Ireland’s oldest city attracting busloads of tourists year round, Waterford is an up and coming place to be with an international vibe.

#VikingTriangle

On a mission to find some new style? There’s something for every budget from big brand fashion and sportswear retailers to vintage and charity shops.

#WaterfordCityCentre

Running for the bus? Waterford city is well connected to all major urban centres by bus and train. Get around easily with city buses, campus shuttle buses and cycle lanes.

#SmarterTravelCampus

Day or night the new Apple Market area is where Waterford comes alive; feel at ease in a city with Purple Flag status for night-time safety.

#AppleMarket

Photo credit: DigiCol Photography www.digicolphotography.com
WIT has a tremendous history in sport and recreation with upwards of 30 sports clubs and 30 societies registered each year. The WIT GAA Club is the best known and most successful with its hurlers having won the Fitzgibbon Cup on nine occasions and WIT’s camogie team having won the Ashbourne Cup a record eight times in total. Other sports that feature high in the Institute include; Ladies and Men’s Football, Soccer, Rugby, Athletics and Basketball. There is also a lot of support for a wide range of other sports such as; Kayaking, Badminton, Judo and Sailing. These clubs have very strong membership bases and represent the Institute in Intervarsity competitions very successfully. The area of societies is an ever growing area within WIT and caters for a wide range of varying activities and interests. There are a number of academic, political, social as well as special interest societies that provide a diverse and interesting offering for all our students.

WIT ARENA & SPORTS FACILITIES
The WIT Arena is a multi-purpose sports arena building at WIT’s West Campus, Carriganore. It is the largest sports, conference and events centre in the South East of Ireland. It serves as a sports facility for students from the Department of Sport & Exercise Science and caters for a wide range of events including; recreational gym users, high performance athletes, multipurpose sports venue, leisure and entertainment events and conferences.

Since opening its doors in September 2016, WIT Arena has hosted a number of major events, concerts, and conferences as well as multiple indoor sporting events such as basketball, soccer, badminton, volleyball and several other sports. WIT Arena boasts a state-of-the-art commercial “Edge Gym”, home to 2000 Arena members, which includes over 100 pieces of cardio and resistance equipment, high performance gym, 3 fitness studios for over 40 different exercise classes per week, 2000sq meter events centre, 6 breakout rooms for meetings and conferences, 5 grass pitches, 2 full size all weather pitches, and direct access to the Waterford Greenway.

See www.witarena.ie for further information.

WIT VIKING SPORTS SCHOLARSHIP PROGRAMME
The WIT Viking Sports Scholarship Programme has recently been redeveloped to offer even greater support to elite athletes. The scholarship programme offers an athlete led development programme aimed at supporting the holistic development of high performance athletes in a wide range of sports. The scholarship programme at WIT is unique with a full-time dedicated Sports Scholarship Coordinator supporting student’s needs.

There are a variety of awarding categories of sport scholarships provided by WIT including; Elite, Sport Scholarship and Emerging Talent. In addition external scholarships are provided by the Gaelic Players Association (GAA), Waterford FC, the Munster Council GAA and Bausch and Lomb.

Included in the WIT Sports Scholarship Programme are:
- Support services
- Financial support
- Academic support and mentoring
- Strength and conditioning
- Sport science support
- Sports gear
- Access to medical and physiotherapy services
- Gym membership

When to apply?
Early offers are made to some students who apply before 1 March 2019. The final deadline for applications is 13 September 2019.

Who can apply?
Any student who intends to enroll on a WIT course or who has accepted a WIT course can apply, once their sporting organisation is recognised by Sport Ireland.

Where do I apply?
Students can apply online at www.wit.ie/sportsscholarships

If you think you have what it takes you can get more information by visiting the Clubs and Societies Office on the Cork Road Campus, by emailing sportscholarships@wit.ie or by calling 051-302192.

See www.wit.ie/sportsscholarships for further information.
If sport isn't your thing, another great way to get involved at WIT is through societies.

- Architecture
- Business
- Christian Union
- Hip Hop
- Heavy Metal
- Horticulture
- Law
- US+LGBT
- Malaysian
- Mature Students
- Musical
- Ogra Fianna Fáil
- Photography
- Witless Gamers
- Visual Arts
- Young Fine Gael
- African
- Culinary Arts
- Chinese
- FLAC
- Poker
- Japanese
- Macra
- Comedy
- Drama
- E-Gaming
- Labour
- Sociology
- Pop Punk
- Women in Technology
- Kickboxing
- Sideways

WIT SOCIETIES

- Athletics
- Badminton
- Basketball (ladies & men)
- Boxing
- Equestrian
- Gaelic Football (ladies & men)
- Golf
- Hurling
- Judo
- Karate
- Kayaking
- Cricket
- Handball
- Yoga
- Ultimate Frisbee
- Sky Diving
- Mountaineering
- Darts
- Pool
- Rugby (ladies & men)
- Soccer (ladies & men)
- Motor Sport
- Rowing
- Sailing

WIT VIKING SPORTS CLUBS

- Athletics
- Badminton
- Basketball (ladies & men)
- Boxing
- Equestrian
- Gaelic Football (ladies & men)
- Golf
- Hurling
- Judo
- Karate
- Kayaking
- Cricket
- Handball
- Yoga
- Ultimate Frisbee
- Sky Diving
- Mountaineering
- Darts
- Pool
- Rugby (ladies & men)
- Soccer (ladies & men)
- Motor Sport
- Rowing
- Sailing

“The scholarship program has been absolutely super to me, and definitely one of the most established across Ireland with the support, facilities and services offered to the athlete. Having access to the High Performance Unit, gym, track, and services including physio, nutritionist, physiology, and sport psychology has helped me and my coach to perform to the highest level. Everything is within close distance. I have a great team supporting me here in WIT, which makes the whole process a lot easier.”

Emma Murray
Sport: Ladies Football
Achievement: O’Connor Cup All Star 2018 & Waterford Footballer
Course: BA (Hons) in Early Childhood Studies

“I have really developed as a player from being on the Sports Scholarship Programme. The facilities at WIT Arena made it an enjoyable place to go and do my strength and conditioning sessions before college in the mornings. It is great to know that the academic help is there if I need help with any of my course modules, as at times it can be challenging balancing study and playing football.”

Joanne Dillon
Sport: Camogie
Achievement: Wexford Senior Camogie
Course: Bachelor of Business (Hons)

“The Scholarship Programme in WIT is second to none in my opinion. The benefit of having access to the High Performance Gym has helped my performances on the pitch greatly. The scholarship office was always open and very approachable and if I needed any help with my course modules, a tutor was organised for me. I’d highly recommend the programme to students.”

Phil Healy
Sport: Athletics
Achievement: 2018 Irish Senior 400m champion, Irish University 100m and 200m champion
Course: Msc in Computing (Enterprise Software Systems)

“The academic help is a great support to me when I am preparing for exams. The one to one support puts you on the right track when some modules are tricky. If I ever needed physio there was no issue in getting treated. With the great communication between college and county management teams, I never had to worry about trying to balance my training schedule as it was taken care of for me.”

Tommy Walsh
Sport: Hurling
Achievement: Kilkenny Hurler and WIT Fresher Captain 2018
Course: Bachelor of Business (Hons)

“I really appreciate the academic help I’ve gotten in my first year on the Sports Scholarship Programme. To know that I can get support eases the pressure on me balancing study and training. I’m really starting to see the benefits of the strength and conditioning support too. To have that expertise and the use of the High Performance Unit for free, I have everything at my disposal to continue improving physically.”

Sean Purcell
Sport: Boxing
Achievement: Irish University Senior Elite 56kg champion
Course: Bachelor of Arts (Hons)

Joanne Dillon
Sport: Camogie
Achievement: Wexford Senior Camogie
Course: Bachelor of Business (Hons)
STUDENT LIFE & LEARNING

The Student Life and Learning (SLL) Department provides a range of student supports that are focused on helping students both during the transition to third level and throughout their time at Waterford Institute of Technology.

SLL provides advice and a range of supports for students and acts as a hub of resources, referrals, and information across the WIT community.

SLL offers a wide range of services to support students including: Disability Supports, Student Engagement and Retention, Chaplaincy, Student Counselling among other services. SLL also aims to make the Institute more accessible for those who traditionally may not have considered third level education as an option for them. The SLL team work with students on a wide variety of issues, including personal and academic concerns. If they cannot provide assistance, they will certainly point you in the direction of someone who can.

The supports and services of SLL include:

- Overall Student Supports
- Student Engagement and Retention Initiatives
- Student Volunteering Opportunities
- Access Office
- Disability Office
- Health and Wellbeing
- Student Counselling
- Chaplaincy
- Careers Office
- Support for students with disabilities
- Financial assistance for students who are experiencing financial hardship (SAF)

Focusing in particular on first year students, the STEPS (Student Transition Engagement Progression and Success) programme offers a range of supports including:

- StartWIT (First Year Transition and Orientation)
- Peer Mentoring Programmes
- Information sessions
- Social activities

CONTACT

Student Life and Learning is located at the Reception on the Cork Road Campus. The sl@wit.ie email acts as the central point of contact if students are unsure which service best meets their need. For further information, visit www.wit.ie/sll

STUDENT ASSISTANCE FUND

Full-time registered students who are experiencing financial difficulty whilst attending college are eligible to apply to the Student Assistance Fund (SAF). Students can apply for SAF to help them with either temporary or ongoing financial difficulties.

For further information please see www.studentfinance.ie or email saf@wit.ie.

STUDENT COUNSELLING

The WIT Counselling Service provides a safe, supportive and confidential environment in which students can discuss any emotional or psychological difficulties they may be experiencing. The service operates in both the College Street and Cork Road Campuses.

For further information, email studentcounselling@wit.ie.

SUPPORT FOR STUDENTS WITH DISABILITIES

The Disability Office provides supports to students with physical disabilities, sensory disabilities, specific learning difficulties, mental health difficulties, significant ongoing illness, neurological conditions, developmental co-ordinator disorder, ADD/ADHD and Autism Spectrum Disorder (ASD).

The service operates from the Student Life and Learning Office. In order to avail of supports, students must register with the disability office and provide evidence of disability. An appointment can be made by emailing disabilityoffice@wit.ie.

Students who register with the disability office are provided with a needs assessment through which supports are approved. Supports are varied and include assistive technology, learning support, access to ASD Educational Support Worker and examination accommodations. Supports are funded through the HEA under the Fund for Students with Disabilities.

Disability Officer
Laura Hartrey
Tel: 051 302871
E-mail: disabilityoffice@wit.ie.

PASTORAL CARE

The Chaplain provides pastoral care for students and staff. Pastoral care work follows through to home and family life especially with regard to illness, bereavement and loss. The Chaplain has a private office (Room D 26, Cork Road Campus) and is available to students, their families and staff members.

Telephone: 051-302617
E-mail: dkeating@wit.ie

THE COMPUTING & MATHS LEARNING CENTRE

The Computing & Maths Learning Centre is located in FTG25 on the Cork Road Campus. It is open to all students and is free of charge. It provides additional programming and maths support to students. It is also a quiet study area for students to work on their programming and maths assignments.

For further information, visit www.wit.ie/cmll
STUDENTS’ UNION

All registered students are automatically members of the WIT Students’ Union. The Students’ Union main activities are to:
• Represent your day to day interests on campus
• Ensure your voice is heard
• Protect your welfare needs
• Protect your educational needs
• Organise events
• Be your representative on Institute committees

The Union actively seeks to prevent problems arising for students. It is both a strong lobbying and representative organisation working on behalf of the students of WIT. Your Union is only as strong as its members - so we encourage you to get involved from day one! For more Information visit: www.witsu.ie.

LIBRARIES

WIT Libraries (Cork Road and College Street) provide a comprehensive range of information services and resources to support student learning and research. Facilities in the award-winning Luke Wadding library, on the Main Campus, include in excess of 1,000 reader spaces over 3 floors. The state-of-the-art library offers a variety of technology-rich learning spaces including suites of pc’s, wireless internet access, individual study spaces, group study and seminar rooms, printing and photocopying services and a rooftop cafeteria. In addition, College Street Campus library houses specialised collections in Music and Architecture.

With a collection of over 200,000 books, journals and audiovisual materials, WIT Libraries also provide 24/7 access to over 120,000 eBook titles and a vast array of online journals & research databases, accessible both on and off campus. Library staff offer friendly, on-demand, help and training to all students in finding and using the information that they need to succeed at college and into their future careers. During term, the library opens at night and on Saturdays.

Web: www.wit.ie/library
Facebook: www.facebook.com/witlibraries
Twitter: @witlibraries

WIT STUDENT CARD

At WIT, the WITCard is the official identification card for students and staff. It is required to access the Library and various other labs and rooms that have access control. Your WITCard is also required for Library services, exam authentication and can also be used for printing and photocopying.

Your WITCard will be issued as part of StartWIT (registration and orientation programme) in early September.

BANKING ON CAMPUS

Allied Irish Banks (AIB) has a branch and ATMs on campus to provide banking services and advice to students.

ACCOMMODATION

Combining character and style with comfort and security, WIT campus accommodation is the natural choice for many of our students. Purpose built and fully equipped, the environment is safe and pleasant, ideal for living and studying. Spacious and modern, all apartments feature en-suite bedrooms, fully fitted kitchens and dedicated study areas.

There’s also 24 hour security, internet access, secure parking, games room plus a serviced launderette and a host of on-site services. The key factor is that there’s a real sense of college life and community spirit, it really does feel like a home away from home.

WIT StudentPad, a website dedicated to providing students with solutions to find safe and suitable private rental student accommodation, is a further service offered by WIT’s accommodation office. WIT StudentPad allows students to search for accredited rooms, houses and apartments in close proximity to our campuses.

For more information, visit www.wit.ie/accommodation

CAMPUS SHOPPING

The campus shops sell many commodities required by students, to make your life that bit easier - for example, writing materials, drawing instruments, confectionery, sports gear, clothing, newspapers, textbooks, bus tickets, stamps, electronic devices - all at competitive prices. Centra @ The Well also provides a vibrant Barista bar with indoor/outdoor seating areas.

WITbubble

A contact point located on both the Cork Road & College St. campuses incorporating a range of various non-academic service including:
• Printing & Copying
• WITCard
• Accommodation Services
• Thesis Binding
• Access Control

EAT ON CAMPUS

Food on campus is second to none and our ethos is to provide healthy, freshly prepared, tasty food. There are a number of restaurants across our campuses which cater for all tastes:
• The Gallery: A fabulous restaurant spread over 2 floors offering an exotic range of healthy foods
• Oscar’s Café: Located in the Luke Wadding Library, with Barista bar and outdoor patio
• Centra @ The HOT HOUSE: The food hall and hub of the Cork Road Campus including a Frank & Honest Barista café
• College St. Café: Great Deli and hot food bar
• Browne’s Rd. Café: Rustic breakfasts to hearty salads and brunch bar
• WIT Arena Café: Barista café with tasty sandwiches, salads and healthy snacks
• The Dome: From coffees to curries, to chill areas
The Careers Centre is the main point of contact for:

- Students and graduates interested in planning and developing their career
- Employers interested in graduate recruitment
- Information on graduate employment and market trends

The Careers Centre is committed to supporting students and recent graduates in developing and implementing successful career plans, and facilitating the recruitment process for students and employers. The Careers Centre supports the Institute in providing opportunities for students and graduates to develop the skills and attributes required to manage their careers throughout their working lives.

CONTACT US
Careers Advisor: Angela Collins
Location: White Atrium, Main Building, Cork Road Campus
Opening hours:
Monday and Thursday: 2.30pm to 4.00pm
Tuesday and Wednesday: 10.00am to 12.30pm and 2.30pm to 4.00pm
Friday: 10.00am to 12.30pm
Telephone: 051 302038
Email: careers@wit.ie

Resources are available in person or at www.wit.ie/careerscentre

1000+ employers advertise graduate jobs on WIT.IE each year
>90% of WIT graduates in employment or further study

2000+ student CV’s reviewed by WIT Careers Centre each year
6000+ the number of students who received career guidance in 2018
John Hume Scholarship

All first year business students are entitled to apply for the John Hume Scholarship which is awarded by the combined Waterford Credit Unions to a first year student of the School of Business on the basis of academic and community performance.

See www.wit.ie for the most up to date information.

Disclaimer:
All course titles and information listed are subject to change. We are constantly improving our portfolio of courses. See www.wit.ie for the most up to date information.
## BUSINESS AT WIT

### SCHOOL OF BUSINESS

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4</th>
<th>POSTGRAD</th>
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<tbody>
<tr>
<td>WD048</td>
<td>WD184</td>
<td>WD003</td>
<td>WD134</td>
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<tr>
<td>LEVEL 6</td>
<td>LEVEL 7</td>
<td>LEVEL 6</td>
<td>LEVEL 8</td>
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<tr>
<td>Bachelor of Business (Hons)</td>
<td>BA (Hons) in Accounting</td>
<td>BA (Hons) in Marketing &amp; Digital Media</td>
<td>BA (Hons) in International Business</td>
<td>Bachelor of Business</td>
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<td>BA (Hons) in International Business</td>
<td>Bachelor of Business</td>
<td>BSc in Retail Management</td>
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<tr>
<td>Advanced Entry: Students who have completed all or part of a third level qualification may be eligible for entry into years other than year 1 of our courses. See <a href="http://www.wit.ie/advancedentry">www.wit.ie/advancedentry</a></td>
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### TAUGHT POSTGRADUATE PROGRAMMES

- Research Masters
- PhD

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[Image: Luke Wadding Library, Cork Road Campus]
BACHELOR OF 
BUSINESS (HONS)

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

LANGUAGE RECOMMENDATIONS
Irish: H5 in Irish
French: O3/H6 in French
German: O3/H6 in German
Spanish: O3/H6 in Spanish
Spanish Ab Initio: For those starting Spanish as a beginner there are no special requirements

POINTS 2018
Min: 279
Range: 279 - 531

DURATION
4 years

COURSE LEADER
Dermot Moore, FCCA
Tel: 051 845620
Email: dmoore@wit.ie

Course Aims
This four-year fulltime course offers you a broad range of business skills combined with a thorough knowledge of the financial and economic environment in which firms operate. On graduation, you will have developed personal and professional skills which will give you the confidence to start a successful business career, in Ireland or overseas.

Flexible Degree
The course is extremely flexible, giving you a broad understanding of a range of disciplines in the first two years while allowing you to specialise and get a greater understanding of the area of most interest to you in the final two years.

Specialisations
· Economics & Finance
· Human Resource Management (HRM)
· Management
· Accounting
· Marketing

Language Options
You are encouraged to study one of four languages as part of your degree, although this is not a requirement.
· French
· Irish
· Spanish
· German

Follow on Study
Master of Business:
· Internationalisation
· Accounting
· Marketing
· Economics and Finance
· Human Resource Management
· Management

Professionals Body Exemptions
Graduates are entitled to exemptions from many of the leading professional accountancy and management bodies including:
· ACA (Institute of Chartered Accountants in Ireland)
· ACCA (Association of Chartered Certified Accountants)
· CIMA (Chartered Institute of Management Accountants)
· The Marketing Institute of Ireland
· CIPD (Chartered Institute of Personnel & Development) leading to Associate Membership

UNIQUE FEATURE - FLEXIBLE SEMESTER
This facilitates the development of skills in the areas of communication, customer service awareness, decision making, problem solving, teamwork, commercial awareness, creativity, confidence and reflection.

In Semester 6 students will be given an opportunity to participate in one of the following:

International Placement: Students spend the semester abroad studying in one of our partner colleges in Europe, USA, Canada, India or China.

Work Placement: Students spend the semester in appropriate work placement, representative of many business sectors.

Start Up Lab: Students set up and run their own business during the semester. They are provided with professional mentoring from the experienced business community in the areas of business planning, marketing and selling, finance and IT.

Teaching Skills: Students spend the semester teaching three days a week in a host primary or secondary school, supported by practical modules in college two days a week.

STUDENT VIEW

“Studying business in Waterford presented the best choice of modules of all the business courses in the country. The lecturers are also recognised as experts in their fields and the class sizes are relatively small. It really enhanced the learning experience and having lecturers who are approachable and engaging made the course all the more enjoyable.”

Una Jackman
## BACHELOR OF BUSINESS (HONS) COURSE OUTLINE

### YEAR ONE

**SEMESTER ONE**
- Introduction to Financial Accounting 1
- Introduction to Management
- Introduction to Statistics
- Organisational Behaviour
- Microeconomics 1
- French B1.3
- German B1.3
- Spanish B1.3

**SEMESTER TWO**
- Business & Financial Maths
- Enterprise
- Introduction to Financial Accounting 2
- Introduction to Human Resource Management
- Microeconomics 2
- Data Analysis for Business
- French B1.4
- German B1.4
- Spanish A2

### YEAR TWO

**SEMESTER THREE**
- Costing
- Probability & Operations Management
- Human Resource Management
- Introduction to Business Law
- Introduction to Marketing
- Microeconomics 1
- International Business Environment
- An Ghaeilge B2.1
- French B2.1
- German B2.1
- Spanish B1.1

**SEMESTER FOUR**
- Probability & Operations Management
- Career Development Skills
- Integrated Marketing Communications
- Management Accounting Techniques
- Business Law
- Contemporary Issues in Management
- Transactional ERP
- An Ghaeilge B2.2
- French B2.2
- German B2.2
- Spanish B1.2

### YEAR THREE

**SEMESTER FIVE**
- Students specialise in one of five areas: Accounting (ACC), Economics & Finance (E&F), Human Resource Management (HRM), Management (MGMT) or Marketing (MKT).
- The table below outlines the mandatory subjects for each area. The elective options are open to all streams.

<table>
<thead>
<tr>
<th>MANDATORY</th>
<th>ACC</th>
<th>E&amp;F</th>
<th>HRM</th>
<th>MGMT</th>
<th>MKT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Management</td>
<td>Financial Management</td>
<td>Digital Marketing Planning</td>
<td>Marketing Research &amp; Analytics</td>
<td>The Changing Consumer</td>
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</tr>
</tbody>
</table>

### SEMESTER SIX - FLEXIBLE SEMESTER

- School Engagement
- Contemporary Debates in Education
- Teaching Environment
- Teaching Skills
- Start-up Lab
- Start-up Lab - learning log
- International Placement 1
- International Placement 2
- Work Placement 1
- Work Placement 1 Log Book
**BACHELOR OF ARTS (HONS) IN ACCOUNTING**

**ENTRY REQUIREMENTS**
- 2 subjects: H5
- 4 subjects: O6/H7
- English or Irish: O6/H7
- Mathematics: O6/H7

**DURATION**
3 years

**POINTS 2018**
Min: 308
Range: 308 - 585

**COURSE LEADER**
Paul Treacy, BA, ACA
Tel: 051 845606
Email: ptreacy@wit.ie

**POINTS 2018**
Min: 308
Range: 308 - 585

**What is Accounting?**
Accounting is a stimulating and challenging business function concerned with the collection, analysis and reporting of information to the owners and managers of a business and other interested parties such as lending institutions and Government.

**Course Aims**
The BA (Hons) in Accounting is a three year degree course that prepares students mainly for careers in accountancy, but can also provide graduates with opportunities in financial services and teaching.

**Special Features**
- The course attracts extensive exemptions from Chartered Accountants Ireland (ACA), the Association of Chartered Certified Accountants (ACCA), the Chartered Institute of Management Accountants (CIMA), and Certified Public Accountants (CPA) Ireland.
- The course has a number of awards attached to it including the PricewaterhouseCoopers Scholarship, the CPA (Ireland) prize for Financial Accounting and the CIMA prize for Management Accounting.

**Career Opportunities**
Graduates of the BA (Hons) in Accounting may work in business or as trainee accountants or teachers following further study.

To qualify as a professional accountant the graduate may opt to study for the accountancy examinations of one of the main accounting bodies while working in the accounting area. To qualify as a business teacher graduates must complete a Professional Masters of Education.

**Flexible Year**
Students are encouraged to avail of an additional flexible year in year 3 which allows our students to either work in the financial services industry or to study overseas in a partner college. Students who elect to take the flexible year will graduate after four years with the BA (Hons) in Accounting (Practice).

**Follow on Study**
Master of Business in Accounting, Master of Business or other equivalent masters courses in Ireland or abroad.

**YEAR ONE**
- **SEMINAR ONE**
  - Introduction to Financial Accounting 1
  - Costing 1
  - Microeconomics 1
  - Statistics and Mathematics
  - Introduction to Management
  - Professional Written Communication

- **SEMINAR TWO**
  - Introduction to Financial Accounting 2
  - Management Accounting Techniques
  - Microeconomics 2
  - IT Skills for Accountants
  - Organisational Behaviour
  - HRM in a Business Environment

**YEAR TWO**
- **SEMINAR THREE**
  - Intermediate Financial Reporting 1
  - Intermediate Management Accounting 1
  - Accounting Information System Skills
  - Law for Accountants
  - Microeconomics
  - Professional Oral Communication

- **SEMINAR FOUR**
  - Intermediate Financial Reporting 2
  - Intermediate Management Accounting 2
  - Governance & Control
  - Company Law for Accountants
  - Global Economy
  - Financial Services Marketing

**YEAR THREE**
- **SEMINAR FIVE**
  - Advanced Management Accounting
  - Business Finance
  - Business Strategy
  - Professional Ethics for Accountants
  - Income Tax
  - Auditing 1
  - Marketing Environment Analysis
  - Fund Accounting
  - Islamic Finance
  - Supply Chain Management

**YEAR THREE**
- **SEMINAR SIX**
  - Advanced Financial Accounting
  - Applied Finance
  - International Corporate Strategy
  - ERP System Skills
  - Taxation
  - Auditing 2
  - Managing the Marketing Mix
  - Company Law 2 for Accountants
  - Business Project Management
  - Economics/Finance Research Project

**STUDENT VIEW**
“I would recommend the BA (Hons) in Accounting to anyone who wants to work in accounting. I’ve come out with my Cap 1s already complete and have only two more years of study which is a real advantage. I feel really lucky to have studied in WIT and my friends studying in different colleges are amazed at the relationship I have with my lecturers. It’s the benefit of smaller classes - you know all your lecturers and importantly, they know you.”

Gemma Heaslip
BACHELOR OF ARTS (HONS) IN
MARKETING & DIGITAL MEDIA

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
4 years

POINTS 2018
Min: 295
Range: 295 - 475

COURSE LEADER
Denis Harris, BComm, MBA
Tel: 051 845617
Email: dharis@wit.ie

What is Marketing and Digital Media?
Marketing is responsible for customer relationships and communicating with customers. Marketing involves researching customer needs, communicating customer insight into new products and services, and promoting, branding and advertising the organisation to its customers and wider public.

Marketing’s interaction with a business’ customers and public has shifted into the digital media space where business communicate directly to customers using, for example, mobile phones, websites, social media, email. Marketing and digital media encompasses all platforms that connect organisations to customers and, in turn, translate customer information via marketing analytics into new knowledge for the business to help it further meet customers’ needs.

Course Aims
The BA (Hons) in Marketing & Digital Media is a four year degree course, which prepares students for employment in marketing in the digital age. The first two semesters consist of general marketing and business subjects and then students study the specific marketing, advertising & media subjects from semesters 3-8.

Career Opportunities
- Advertising
- Digital Media (Managing company website/social media/online promotions)
- Marketing Research
- Brand Management
- Sports Sponsorship
- Sales & Purchasing
- Public Relations

Work Placement or Study Abroad
The work placement or study abroad takes place in Semester 7. It allows students to gain real experience of working in a marketing environment.

Companies who have been involved in the placements include: Coca Cola, Aer Lingus, Ben Sherman, Bulmers (C+C), Bank of Ireland and Advertising Agencies such as Rothco, Cawley Nea and Youngs. Students can also opt to study abroad in one of WIT’s partner institutions in Europe, Canada or the USA.

Follow on Study
Master of Business in Marketing

YEAR ONE
SEMESTER ONE
Market Pricing
Digital Media 1
Principles of Marketing
Introduction to Statistics
IT & Communication Skills 1
Introduction to Management

SEMESTER TWO
Macroeconomic Environment
IT & Communication Skills 2
Marketing Mix
Marketing Communications
Social Media Technologies
Organisational Behaviour

YEAR TWO
SEMESTER THREE
Market Research Theory
Direct and Database Marketing
Introduction to Business Law
Digital Media 2
Consumer Psychology
Applied Services Marketing

SEMESTER FOUR
Accounting for Business
Print Media Advertising
Commercial Law
Consumer Environment
Marketing Research Practice
Introduction to Advertising

YEAR THREE
SEMESTER FIVE
Financial Management
Advertising Message & Media Planning
Digital Creativity & Design
Web Development
Customer Relationship Management
Sports Marketing
Marketing/Advertising Project 1

SEMESTER SIX
Strategic Public Relations
International Marketing
Services Marketing Theory
Web Design
Digital Media Advertising
Professional Selling Skills
Marketing/Advertising Project 1
Marketing/Advertising Project 2

YEAR FOUR
SEMESTER SEVEN
Work Placement 1
Work Placement 1: Log Book
International Placement 1

SEMESTER EIGHT
Marketing Challenge
Digital Marketing
Strategic Brand Management
Global Strategic Marketing
SEO & Analytics
Social & Ethical Marketing
Small Business Management

STUDENT VIEW
“I chose to study Marketing and Digital Media because I have always had an interest in Business but I prefer the creative side of business. WIT also has one of the most recognised business schools in the country so I was very lucky to have it on my doorstep. I am a very outgoing person and the marketing and digital media course gave me the opportunities to give presentations and use my personality in my career.”

Neasa O’Brien - Marketing Student of the Year

www.wit.ie
What is International Business?
International Business involves a wide variety of activities, for example, exporting products and services, dealing with foreign suppliers, operating a factory in a foreign country, marketing a product across Europe, even managing multicultural workforces.

Course Aims
An important part of success in international business is an ability to interact effectively with people from other cultures and societies. The BA (Hons) in International Business is a four-year programme that prepares students to live and work in an international and multicultural environment. The course provides a broad business education as well as building the knowledge, skills and sensitivities to effectively work in our multicultural world.

International Placement
In third year every student will spend one year on placement, in a foreign country. The student will generally study at one of the School of Business’ Partner Institutes. The student may also complete a foreign country. The student will generally study at one of the School of Business’ Partner Institutes. The student may also complete an international work placement. The School has partner institutes around Europe, and in the USA, Canada, China and India.

Special Features
- The student group is multicultural, making the classroom a living cultural experience.
- Depending on the student’s background, there are several languages options available, although studying a language is not mandatory.
- Those students whose first language is not English may take English as a subject throughout the course.

Double Degree
The BA (Hons) in International Business has recently co-developed a Double Degree (Bachelor of Business Administration) with Munich UAS in Germany. A student may apply to complete the Double Degree while in second year of the course and would then spend their International Placement (studying or working) in Munich, before returning to complete their final year in WIT.

Career Opportunities
- Graduates join larger firms at junior management level, and go on to work in several international business functions, including: human resources, export departments, international sales or purchasing & logistics.
- Graduates are very suited to the demands of small and medium-sized enterprises, and to the varied nature of work required of a manager in a smaller firm.

Follow on Study
Master of Business in Internationalisation
Master of Business, Master by Research

COURSE OUTLINE

YEAR ONE
SEMESTER ONE
Introduction to International Business
Introduction to Management
Economics of the Market
IT & Communication Skills 1
Language

SEMESTER TWO
International Business
Organisational Behaviour
Business and Financial Maths
Macroeconomic Environment
IT & Communication Skills 2
Language

YEAR TWO
SEMESTER THREE
European Union Introduction
Introducing Human Resource Management
Introduction to Marketing
Human Resource Management
International Trade Law
Language

SEMESTER FOUR
Intercultural Business Context
Integrated Marketing Communications
Human Resource Management
International Trade Law
Management Decision Making
Global Economy
Management Skills
Language

YEAR THREE
SEMESTER FIVE
International Placement 1

SEMESTER SIX
International Placement 2

SEMESTER SEVEN
Business Strategy
International Institutions
New Business Creation
Supply Chain Management
International Finance

YEAR FOUR
SEMESTER EIGHT
International Business Sales
International Political Economy
Global Business Ethics
International Human Resource Management
International Corporate Strategy

*Engage in the Development of a Double Degree

STUDENT VIEW
"The International Business course really stood out from the others. People my age grew up as the world was becoming more globalized and WIT introduced a course that really reflected the modern day business world. The biggest carrot for me was the opportunity to study or work during my third year. I spent my third year living in Boston interning with an Irish/American company called RelateCare."

Valerie O’Brien
Course Aims
The Bachelor of Business is a three year degree that provides students with specialised knowledge across a wide range of business areas. The degree focuses on developing student knowledge in critical areas of business studies in conjunction with developing interpersonal and communication skills that are necessary in today’s business environment. Students who graduate with a Bachelor of Business degree will have a range of skills and competencies that will allow them to make a meaningful contribution in the workplace.

Career Opportunities
Graduates of the Bachelor of Business will find work in
- Trainee management
- Junior management in any of the main business functions and across all industry and services sectors

Follow on Study
Honours degree courses within the School of Business, in particular the Level B Bachelor of Business (Hons) (Year 4).

Special Features
- The applied nature of the course means you can undertake tasks and assignments similar to those worked on in industry and commerce.
- Completion of this course entitles students to the following professional body exemptions:
  - Examinations F1, F2, and F3 of the professional examinations of the Association of Chartered Certified Accountants (ACCA).
  - Examinations C01 to C05 inclusive of the Chartered Institute of Management Accountants (CIMA).

COURSE LEADER
Fiona Ryan, BBS (Economics & Finance), MBSI
Tel: 051 834085
Email: feaderyan@wit.ie

APPLY CAO
WD159
wit.ie/wd159

STUDENT VIEW

“I, like so many others starting college, was unsure of the exact career path I wished to pursue. And for that reason, the Bachelor of Business course offered a unique opportunity, one that allowed for a holistic insight into each discipline of business. Accompanied with leading scholars in their field, who through small class sizes, promote critical interactions through independent and team engagements. Indeed, the three year course endorses further qualifications, one that I embraced myself, now a doctoral student, the Level 7 course certainly formed my career foundations.”

Noel Connors
BACHELOR OF SCIENCE IN
RETAIL MANAGEMENT

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
3 years

POINTS 2018
Min: 180
Range: 180 - 477

COURSE LEADER
Fiona Fleming,
MMII, MBA, BA, HDip in Ed.
Email: ffleming@wit.ie
Tel: 051 845618

What is Retail Management?
Retailing is a global, growth industry that provides challenging and rewarding career opportunities. Retail management is the achievement of company goals through effective and efficient planning, leadership, organisation and control of internal resources.

Course Aims
The BSc in Retail Management is a full-time three year degree course, combining class-based training with practical assignments. Throughout the course, students study general business theory and practice along with key areas relating to retail management, specifically: Retail Marketing, Brand and Category Management, International Retailing and Sales and Merchandising.

Special Features
- Our BSc in Retail Management programme is the ideal course of study for any individual who wishes to pursue a career in the retail sector.
- The applied nature of the programme means you undertake tasks and assignments similar to those worked on in the retail sector.
- The work placement option in semester 5 allows you to gain real experience working in a retail environment. Each student will be required to keep a log of his or her work-related experience and produce an applied research project.
- The study abroad option in semester 5 gives students an opportunity to spend the semester studying in one of our partner colleges in Europe, North America or Canada.

Career Opportunities
- Graduates often pursue lead, supervisory, or management positions at the retail store level, or specialist/analyst positions within a retail department or corporate headquarters such as: Category Management, Buying and Merchandising, Key Account Management and Sales/Marketing positions
- General Retail Management
- Business ownership

Follow on Study
Bachelor of Business (Hons) (Year 4)

COURSE OUTLINE

YEAR ONE
SEMMESTER ONE
Applied Retailing
Communication Skills 1
Introductory Microeconomics 1
Maths for Business
Communication & Technology 1
Managing the Retail Organisation

SEMMESTER TWO
Introductory Microeconomics 1
Communication Skills 2
Retail Marketing
Communication & Technology 2
Retail Consumer
Statistics for Business

YEAR TWO
SEMMESTER THREE
Accounting for Retailers
Introduction to Human Resource Management
Law 1
Online Retailing
Sales & Merchandising
Enterprise Skills

SEMMESTER FOUR
Human Resource Management in Practice
Law 2
Brand and Category Management
Applied Marketing Research
Employability Skills
Marketing Mix Decisions

YEAR THREE
SEMMESTER FIVE
Retail Work Placement & Log
Retail Study Abroad & Log

SEMMESTER SIX
International Retailing
Customer Relationship Management
Leadership Skills for Managers
Retail Promotion
Retail Services Management
Retail Entrepreneurship

STUDENT VIEW

“I chose the Retail Management course at WIT which has a great name and it would only take me three years to complete, which isn’t a long time commitment compared to other courses. I had the option to study this course in Dublin but WIT made the most sense as the majority of my friends were already studying there, it’s closer to home and more practical in the long run. The college was also more appealing as it seemed more welcoming and close knit - in WIT you’re not just a number, you are close to your lecturers who are always on hand to help and your opinion matters as I found out through my role as Class Rep for the last 2 years.”

Denise Brophy
HIGHER CERTIFICATE IN
BUSINESS

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
2 years

POINTS 2018
Min: 186
Range: 186 - 589

COURSE LEADER
Sinéad O’Keeffe,
Tel: 051 845622
Email: sokeeffe@wit.ie

Course Aims
The Higher Certificate in Business offers a wide range of business-related subjects including Accounting, Economics, Management, Marketing and Human Resource Management. A course in Business Studies provides students with the essential skills and practical knowledge required to facilitate success in any business situation.

The Higher Certificate in Business Studies is a flexible two year course culminating in a widely recognised and highly regarded qualification. On successful completion of this course, students will have gained relevant business skills that they can apply in their future career. They will have deepened their understanding of how business operates.

Special Features
- The applied nature of the teaching affords you the opportunity to put your learning into practice. This is done through the use of case studies from real businesses and through the examination of real business problems.
- Completion of this course entitles students to the following professional body exemptions:
  - Examinations F1, F2, and F3 of the professional examinations of the Association of Chartered Certified Accountants (ACCA).
  - Examinations C01 to C05 inclusive of the Chartered Institute of Management Accountants (CIMA).

Career Opportunities
Graduates of the Higher Certificate in Business will find work in:
- Trainee management
- Junior management in any of the main business functions and across all industry and services sectors
- The qualification also allows students to progress to other courses

Follow on Study
Graduates with a Higher Certificate in Business can transfer to degree courses in the School of Business at WIT including:
- Bachelor of Business (Hons) - Year 3
- Bachelor of Business - Year 3
- BA (Hons) in Accounting - Year 2

COURSE OUTLINE

YEAR ONE

YEAR TWO

STUDENT VIEW

“WIT do more than produce academics, they create students who are ready and equipped for the real business world. There was a high degree of interaction with lecturers and peers on the HCBS course, giving students not just a greater understanding of material, but the chance to develop their interpersonal skills. The course teaches a broad range of business modules which gave me the confidence to choose the further study I wished to complete and eventually follow my preferred career path. I later graduated from WIT with a BA (Hons) in Accounting and Masters in Business Management and am now working as an Associate Fund Accountant with State Street Ireland. I owe these achievements to the quality of the HCBS course and the knowledge and experience you carry from it.”

Donnacha Ryan
## COURSE OPTIONS & PROGRESSION CHART

<table>
<thead>
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<th>Code</th>
<th>Course Description</th>
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<td>WD007</td>
<td>Engineering (Common Entry)</td>
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<tr>
<td>SEE</td>
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<tr>
<td>SCE</td>
<td>BEng (Hons) in Sustainable Civil Engineering</td>
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<td>ECE</td>
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<tr>
<td>WD230</td>
<td>BEng (Hons) in Mechanical &amp; Manufacturing Engineering</td>
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<td>WD011</td>
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<td>WD207</td>
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<td>BEng in Manufacturing Engineering</td>
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<td>WD182</td>
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<td>BEng in Building Services Engineering</td>
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<td>WD025</td>
<td>BSc (Hons) in Construction Management &amp; Engineering</td>
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<td>WD162</td>
<td>BSc (Hons) in Quantity Surveying</td>
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<tr>
<td>WD144</td>
<td>Bachelor of Architecture (Hons)</td>
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<td>WD094</td>
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<tr>
<td>WD195</td>
<td>BSc (Hons) in Architectural &amp; BIM Technology</td>
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**Disclaimer:**

All course titles and information are subject to change. We are constantly improving our portfolio of courses. See [www.wit.ie](http://www.wit.ie) for the most up to date information.
### Engineering at WIT

#### School of Engineering

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4+</th>
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<td>Bachelor of Architecture (Hons) (5 Year Degree)</td>
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<tr>
<td>BSc in Architectural Technology</td>
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<tr>
<td>BSc (Hons) in Architectural &amp; Building Information Modelling Technology</td>
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<td>➔ Transfer Year 4</td>
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<tr>
<td>BSc (Hons) in Quantity Surveying</td>
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<td>➔ Transfer Year 3</td>
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<td>BEng in Building Services Engineering</td>
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<td>➔ Transfer Year 3</td>
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<td>BEng in Civil Engineering</td>
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**CAO Entry:** Engineering (Common Entry)

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<tr>
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<td>BEng (Hons) in Sustainable Civil Engineering</td>
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<td>BEng (Hons) in Electronic Engineering</td>
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<td>BEng in Electrical Engineering</td>
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Advanced Entry: Students who have completed all or part of a third level qualification may be eligible for entry into years other than year 1 of our courses. See www.wit.ie/advancedentry
What is Engineering?
There are many types of Engineering, all of which are focussed on making a better world. Studying Engineering can lead to exciting career prospects and top salaries across a wide range of industries.

Engineers are shaping the future by applying their skills to almost everything you can think of, from medical to transport, sustainable energy to food production, robotics to construction, clean water to 3D printing. There really is no limit to what Engineers can do.

Engineering is the power behind innovation and new product developments. Engineers identify a problem, and come up with a solution – often creating something completely new in the process.

Take time to choose
The Common Engineering Honours Entry Scheme is for students interested in Engineering as a career, but who may be unsure of which discipline to follow. WD007 is the gateway to four Bachelor of Engineering (Hons) degree options.

Semester One
In semester 1, students explore each of the different Engineering disciplines via the ‘Introduction to Engineering’ module which includes exciting mini-projects completed in groups. There will also be a range of presentations from external Professional Engineers explaining how each discipline makes a positive impact on the world.

The other modules in semester 1 concern Maths, Science and Critical Thinking skills, all fundamental to Engineering disciplines. These are ‘Engineering Mathematics 1’, ‘Engineering Computing’, ‘Physics 1’ and ‘Engineering Professionalism’. There are also additional tutorials for Maths to support students and help explain the link between the different Maths topics and the Engineering disciplines.

Student-Mentor Meetings
Each student will meet their mentor on a weekly basis throughout the first semester. These meetings offer the opportunity to ask detailed questions and get individual guidance as to which discipline they should pursue.

Specialising
Students start to specialise in semester 2 of Year 1 and further specialise in the next 3 years.
Course Aims
The BEng (Hons) in Sustainable Energy Engineering course is dedicated to investigating energy and its uses in areas such as sustainable low energy building design, building energy performance and analysis, energy production, low and zero carbon heat and power generation technologies, and energy policy and legislation.

The early stages of the course are designed to introduce the students to the fundamentals of maths, engineering, science and technology that underpin the study of engineering in general and equip them with the knowledge required to undertake a more specific study of engineering in relation to sustainable energy systems.

Career Opportunities
Graduates will be equipped with the knowledge and skills required to pursue a career within the energy sector either in Ireland or abroad. They may find employment as:
- An energy manager/consultant for existing building stock
- Facilities manager
- Construction industry low energy design professional
- A specialist in the production and power generation, and energy recovery
- Building Energy Assessor

Transferring Students
Students who pursue other engineering courses at WIT, or another third level institution, at ordinary degree level or equivalent, may apply to transfer onto this course at the third year stage.

Follow on Study
Taught and research postgraduate programmes in WIT:
- MSc in Sustainable Energy Engineering
- MSc in Construction Project Management.

Both programmes have been designed to meet the accreditation standards of Engineers Ireland at chartered level.

Industrial Placement
In year three, students go on industrial placement for up to six months. This gives the students a taste of what professional practice is all about, how the industry operates and how theoretical knowledge is applied in practice. It also generates industrial links between WIT and the engineering industry in Ireland and abroad.

Student View
“Getting to go on placement on such a big, multinational company like Bausch & Lamb was a great experience. I got to see a lot of the things I had learned about in class and in textbooks working right in front of me. It will be of great benefit for me heading into my future career. I gained great experience from this and it is a great benefit that placement is included in many WIT courses.”

Lisa Martin
What is Sustainable Civil Engineering?
Civil Engineers are increasingly working to achieve safe and sustainable development in a cost-effective, environmentally protective and socially responsible manner. They utilise engineering principles to enhance the built and natural environment, and contribute to environmental protection and remediation, water conservation, environmental biotechnology, materials and infrastructure development. The completion of a civil engineering project involves the solution of technical problems from which the cooperation among professionals of many different disciplines is needed. From conceptual design to forensic study of failed performance, civil engineers need the mathematical, scientific and computational tools to solve problems associated with developing and sustaining a civilised community. Central to the current and future civil engineering profession is the core issue of ‘sustainability’.

Course Aims
This honours degree course has been designed to produce graduates who can successfully operate as civil engineers in the future Irish and global engineering and construction industry. The overall context to the course is the key theme of ‘sustainability’. The graduates will be conscious of the vital influence that civil engineers will increasingly have on achieving the various sustainability targets at national, EU and international levels.

Industrial Placement
In year three, students go on industrial placement for up to six months. This gives the students a taste of what professional practice is all about, how the industry operates and how theoretical knowledge is applied in practice. It also generates industrial links between WIT and the engineering industry in Ireland and abroad.

Career Opportunities
Having a civil engineering qualification that has sustainability as its core theme should enable graduates to undertake a variety of design and construction roles in the future civil engineering industry.

Follow on Study
Levels 9 and 10 and Continuous Professional Development (CPD) activities including courses such as:
· MSc in Construction Project Management
· MSc in Sustainable Energy Engineering
Both courses meet the Engineers Ireland education standard for Chartered Engineer. Alternatives also include MEng/PhD by research.

STUDENT VIEW
“The BEng (Hons) in Sustainable Civil Engineering covered areas such as sustainable energy, heat and power generation technologies, energy policy and legislation as well as studying Civil Engineering subjects. As part of my course I got an opportunity to go out on Industrial Placement for up to six months. This gave me a taste of what professional practice is all about, how the industry operates and how what I learnt in the class is applied and works in practice. It also gave me good industry links and contacts.”

Eoin Dunphy
Course Aims
The BEng (Hons) in Electronic Engineering is a four year degree course which prepares students for employment in the electronics industry. This course is recognised by Engineers Ireland (EI).

Career Opportunities
Graduates of the BEng (Hons) in Electronic Engineering may find employment in the following areas:
- Electronics Design
- Control Engineering
- Research & Development
- Test and Measurement
- Technical Support
- Electronic Sales

Follow on Study
- MEng in Electronic Engineering
- Research Opportunities
- Some recent graduates are pursuing Masters and PhD level research in Ireland and abroad.

Course Outline

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<tr>
<th>SEMESTER ONE</th>
<th>SEMESTER THREE</th>
<th>SEMESTER FIVE</th>
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<tbody>
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<td>Introduction to Engineering</td>
<td>Advanced Programming for Robotics</td>
<td>Advanced Engineering Maths</td>
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<tr>
<td>Engineering Computing</td>
<td>Analogue Electronic Circuits 1</td>
<td>Analogue Control</td>
</tr>
<tr>
<td>Engineering Maths 1</td>
<td>Finite State Machines</td>
<td>Embedded Systems Scripting</td>
</tr>
<tr>
<td>Engineering Professionalism</td>
<td>Maths Ordinary Differential Equations</td>
<td>Mobile Wireless Telecoms 1</td>
</tr>
<tr>
<td>Engineering Physics 1</td>
<td>Intro Telecoms Theory</td>
<td>Semiconductor Fundamentals</td>
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<tr>
<td>DC Circuit Theory</td>
<td>AC Circuit Theory</td>
<td>Analogue Circuit Designs</td>
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<th>SEMESTER TWO</th>
<th>SEMESTER FOUR</th>
<th>SEMESTER SIX</th>
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<tbody>
<tr>
<td>Analogue Electronic Devices</td>
<td>Analogue Electronic Circuits 2</td>
<td>Industrial Studies &amp; Placement</td>
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<tr>
<td>DC Circuit Theory</td>
<td>Digital Systems</td>
<td>Enterprise Studies</td>
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<tr>
<td>Introduction to Programming</td>
<td>Electric Circuit Theory</td>
<td>Research Methods</td>
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<tr>
<td>Introduction to Electronic &amp; Electrical Technology</td>
<td>Maths Advanced Calculus</td>
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<td>Engineering Maths 2</td>
<td>Micro Electronics</td>
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<tr>
<td>Engineering Physics 2</td>
<td>Object Orientated Programming for Microcontrollers</td>
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<th>SEMESTER SEVEN</th>
<th>SEMESTER EIGHT</th>
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<tbody>
<tr>
<td>Embedded Systems Architecture &amp; Hardware</td>
<td>Project Implementation</td>
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<tr>
<td>Mobile Wireless Telecoms 2</td>
<td>Embedded Firmware</td>
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<tr>
<td>Project Specification</td>
<td>Real Time DSP Implementation</td>
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<tr>
<td>Theory &amp; Applications of DSP</td>
<td>Embedded System on Chip Design</td>
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<tr>
<td>Application of the Internet of Things</td>
<td>Embedded OSs</td>
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<tr>
<td>Data Communications</td>
<td>Semiconductor Devices</td>
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<tr>
<td>Digital Communication Analysis</td>
<td>Applied Embedded OSs</td>
</tr>
<tr>
<td>Microelectronic Circuit Design</td>
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</tbody>
</table>

STUDENT VIEW

“I chose to study the BEng (Hons) in Electronic Engineering because I wanted to find something that was going to keep the brain active and electronics is the way forward. While studying the course I was part of the team who created the Robocar, that was a big challenge and my favourite part of the year. I was a part of the Braking Team. I’m also a student ambassador at WIT. My own student ambassador was fantastic and really helped me settle in, so it’s great to be able to do the same for new students.”

Mark McManus
Course Aims
The primary aim of the BEng (Hons) in Electrical Engineering is to produce graduates of high calibre who possess a thorough knowledge of scientific principles and engineering practice and an appreciation of the work and business environment in which the professional engineer must work.

The programme’s core content has a strong emphasis on nurturing an ability to foster analytical thinking and reasoning. A six month placement helps give the student a context for some of the material already gained and will provide a stimulus in the final year of learning.

The course has five module groups:
- **Control Engineering**: This group includes Analog Control, Digital control and Robotics and Vision. These modules are also heavily supported by the programming modules HLL programming and Software applications and Algorithms.
- **Mathematics**: Mathematics is prominent and applied in modules such as Electrical Signal & Systems and the control modules.
- **Industrial Studies and Personal Development**: Industrial Placement, Semiconductor Technology, Industrial Standards and Legislation and Operations management.
- **Telecommunications/communications**: Telecommunications and Data Communications.

Placement
The course has a nine month work placement which allows the student to develop their skills in an electrical engineering environment. Students have undertaken their work placement in areas such as Pharmaceutical, Construction, Control, Lighting design and Utilities.

Major Project
The final year of the programme has a major project component consisting of two modules: project specification and project implementation.

Career Opportunities
- Pharmaceutical Industry
- Medical Technology
- Process Control and Plant Automation
- Power Generation
- Renewable Energies
- Semiconductor Fabrication Industries

Follow on study
Graduates may apply to join appropriate level 9 programmes including the MEng in Electronic Engineering within WIT.

Course outline is subject to change.
What is Mechanical & Manufacturing Engineering?
This is a broad area focusing on the design and development of products and processes. Mechanical engineering has a strong product and equipment design element, while manufacturing engineering analyses the processes and systems required to produce goods.

Course Aims
This is a four year honours degree, which prepares students for employment in a very broad range of engineering situations.

Career Opportunities
Graduates of the course may find work in the following areas:
- Process Design and Improvement
- Enterprise Resource Management
- Product Design & Development
- Manufacturing Engineering
- Quality Management

Past Graduates are employed in a variety of companies including: Bausch & Lomb, Hewlett-Packard, Intel, Mercury Engineering, Radley Engineering and abroad.

Follow on Study
Graduates of this course are eligible to proceed to postgraduate courses in WIT and other colleges.

Industrial Placement
Industrial placement takes place in semester 6, which can be up to six months duration (March - September). These placements have been very successful at providing a perspective on the broad variety of material that they have covered in the course.

Students have been previously placed in Bausch & Lomb (Waterford), Honeywell (Waterford), Intel (Leixlip), Janssen Pharmaceutical (Cork), Lasercut Engineering (Shannon), Schering-Plough (Wicklow), and Stryker (Cork).

Field Trips
Industrial visits are an integral part of the course, providing the students with examples of authentic applications of course material. Other events, such as visiting lecturers or Engineering Society trips, occur on a regular basis.

STUDENT VIEW
“Engineering is known to be difficult yet rewarding career path and after choosing to study this in WIT I found that the reward begins with less of the difficulty. The course had such a broad spectrum of modules, a variety of software packages and industrial placement. This placement gave me a chance to apply all the techniques I have learned, and gave me a real flavour for what life after college can be like.”

Emily Watson
**Higher Certificate in Engineering in Mechanical Engineering**

**Entry Requirements**
- 5 subjects: O6/H7
- English or Irish: O6/H7
- Mathematics: O6/H7

**Duration**
- 2 years

**Points 2018**
- Min: 211
- Range: 211 - 357

**Career Opportunities**
- Plant operation and maintenance
- CAD/ Drawing Office
- CNC Programmer
- Manufacturing Engineering Support
- Assistant Design Engineer
- Technical Sales Person

**Course Outline**

**Year One**

**Semester One**
- Electrical Technology
- Engineering Professionalism & Technology
- Engineering Science
- Fundamental Engineering Maths
- Mechanical & Manufacturing Technology
- Mechanical Workshop

**Semester Two**
- Engineering Drawing / CAD
- Introductory Calculus
- Machine Systems
- Materials Technology 1
- Mechanical Science
- Production Technology 1

**Year Two**

**Semester Three**
- Mathematical Methods
- Engineering Drawing / Design
- Applied Computing
- Materials Technology 2
- Production Plant
- Workshop 2

**Semester Four**
- Calculus
- Electronics & Control
- Power Systems
- Production Technology 2
- Engineering Design Analysis
- Project

**Industrial Visits**
To reflect the practical nature of mechanical engineering, the course contains a number of laboratory classes. These include Workshop, Automation, Materials, Science and Automotive laboratories. In addition industrial visits and field trips are used to enhance the learning experience.

**Follow on Study**
- BEng in Mechanical Engineering (WD207) - Year 3
- BEng in Manufacturing Engineering (WD208) - Year 3

**COURSE LEADER**
- Paul Allen
- Email: pallen@wit.ie

**Apply CAO**
- WD011
- [wit.ie/wd011](http://wit.ie/wd011)

**Student View**

“I decided on this course because the modules covered looked very interesting and the course offered both hands on and theory elements. If you have an interest in understanding how machinery operates or want to open opportunities in a very broad sector/Industry, this course is very good at providing the knowledge and ability needed to work in multiple industries along with the attention to detail and tools that you will need.”

John O’Shea
What is Mechanical Engineering?
Mechanical engineering is the branch of engineering that deals with the design and manufacture of machinery and tools. Mechanical engineers use applied maths and science to design a wide range of machines, from domestic household appliances to sophisticated machines such as aircraft and automobiles.

Course Aims
The BEng in Mechanical Engineering is a three year, level 7 programme. Graduates of the course are trained in many engineering disciplines including Engineering Mathematics, Engineering Science, Engineering Drawing, CAD, Hydraulics, Pneumatics and Automotive Technology.

Follow on Study
- BSc (Hons) in Manufacturing Engineering (WD036) – one year add-on course
- BEng (Hons) in Mechanical & Manufacturing Engineering (WD230) – Year 3

COURSE OUTLINE

YEAR ONE
SEMESTER ONE
- Electrical Technology
- Engineering Professionalism & Technology
- Engineering Science
- Fundamental Engineering Maths
- Mechanical & Manufacturing Technology
- Mechanical Workshop

SEMESTER TWO
- Engineering Drawing / CAD
- Introductory Calculus
- Machine Systems
- Materials Technology 1
- Mechanical Science
- Production Technology 1

YEAR TWO
SEMESTER THREE
- Mathematical Methods
- Engineering Drawing / Design
- Applied Computing
- Materials Technology 2
- Production Plant
- Workshop 2

SEMESTER FOUR
- Calculus
- Electronics & Control
- Power Systems
- Production Technology 2
- Engineering Design Analysis
- Project

YEAR THREE
SEMESTER FIVE
- Engineering Design Process
- Fluid & Thermodynamics
- Mechatronics 1
- Mechanics of Materials & FEA
- Differential Equations
- Project 1

SEMESTER SIX
- Engineering Design Operations
- Mechatronics 2
- Static & Dynamic Systems
- Robotics & Control
- Dynamics & Control
- Project 2

Course outline is subject to change.
Course Aims
The Bachelor of Engineering in Manufacturing Engineering is a three year level 7 programme designed to give students the basic knowledge and tools to enable them to work in a manufacturing environment with particular emphasis on automation and control of machines and processes. The topics include robotics, programmable logic controllers (PLC), design, transducers and operations management.

Career Opportunities
- Process Engineers
- Production Engineers
- Automation Specialists

Follow on Study
- BSc (Hons) in Manufacturing Engineering (WD036) – one year add-on course
- BEng (Hons) in Mechanical & Manufacturing Engineering (WD230) – Year 3

Special Feature - Project
The main project contributes to the students’ learning and development and is also the most enjoyable feature of this course. This is so because all the projects deal with ‘real’ problems and every project has a client who needs the results. The method by which the project objectives are achieved is not known in advance and is therefore developed by the students, in conjunction with their supervisor and client.

Course Outline

YEAR ONE

SEMESTER ONE
- Electrical Technology
- Engineering Professionalism & Technology
- Engineering Science
- Fundamental Engineering Maths
- Mechanical & Manufacturing Technology
- Mechanical Workshop

SEMESTER TWO
- Engineering Drawing / CAD
- Introductory Calculus
- Machine Systems
- Materials Technology 1
- Mechanical Science
- Production Technology 1

YEAR TWO

SEMESTER THREE
- Mathematical Methods
- Engineering Drawing / Design
- Applied Computing
- Materials Technology 2
- Electrical & Control
- Industry Studies

SEMESTER FOUR
- Applied Engineering
- Calculus
- Engineering Design Analysis
- Fluid Power Automation
- Production Technology 2
- Thermodynamics

YEAR THREE

SEMESTER FIVE
- Engineering Design Process
- Process Control
- Mechatronics 1
- Operations Management
- Differential Equations
- Project 1

SEMESTER SIX
- Engineering Design Operations
- Mechatronics 2
- Manufacturing Technology
- Robotics & Materials Handling
- Dynamics & Control
- Project 2

Course outline is subject to change.

STUDENT VIEW

“After graduating I started working for DePuy Ireland. DePuy designs, manufactures and distributes orthopaedic devices and supplies including hip, knee, extremity, trauma, orthobiologics, and operating-room products which are manufactured in line with the highest quality standards within a regulated environment. Luckily the practical project work students undertake alongside the classwork, provides graduates from this course with a real understanding of what they will end up working with in industry.”

Kenny Williamson
What is Manufacturing Engineering?
Manufacturing Engineering involves the use of computer systems to design products, plan production, control operations and perform the various business-related functions needed in a manufacturing firm and their incorporation into an integrated computer system.

Course Aims
The BSc (Hons) in Manufacturing Engineering is a one year follow-on course for graduates of the BEng in Manufacturing Engineering. The course prepares students to work with the latest computer-based technologies associated with modern manufacturing practice.

Career Opportunities
Graduates of the BSc (Hons) in Manufacturing Engineering have found employment in the following areas:
- Process development and automation
- Plant specification
- Equipment commissioning
- Manufacturing and engineering management
- Resource planning
- Project control.

Gaining employment with many diverse organisations including: Allied Signal, Bausch & Lomb, Bulmers (C+C), Boston Scientific, Abbott, Turnex, Wyeths, Genzyme, Johnson & Johnson and Sanofi.

Follow on Study
Graduates achieving an honours degree on this course may apply for MSc or PhD degree courses in WIT or elsewhere.

Field Trips
Industrial visits and field trips form part of this course. Presentations from past graduates and industrial visitors are a regular feature.

Projects
Projects form a very enjoyable part of the course where students have the freedom to genuinely express themselves. Many of the projects undertaken have developed into postgraduate research projects and a number of final-year students have presented their work in published papers at international conferences.

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
- Software Engineering
- CAE
- Advanced Manufacturing
- Process Control
- Process Technology
- Project 1

SEMESTER TWO
- Networks & Facility Simulation
- Process Evaluation
- Operations Management
- Design for Manufacture
- Manufacturing Technology
- Project 2

STUDENT VIEW

“During my four years in WIT I have met some very interesting people this helped to make me more open minded, which will be very helpful for future development. During this time I have been involved in several projects, from the development of a perpetual motion machine in the Higher Cert. Nano-technological research in the Bachelor degree, to the development of a methodology based on Six Sigma in my BSc honours degree.”

Lukas Birkus
What is Electronic Engineering?
Common electronic systems include applications like mobile phones, sound and vision systems, computer and information technology, automation, machine control, robotics and biomedical engineering. Increasingly, embedded software is a vital element in modern electronics. Electronic engineering is concerned with the design, development, manufacture and application of electronic devices, circuits and systems.

Course Aims
The Higher Certificate in Engineering in Electronics is a two year course, which prepares students for employment and/or further education in the area of electronic engineering.

Career Opportunities
Graduates of the Higher Certificate in Engineering in Electronic Engineering find work in the following areas:
- Assembly, testing and troubleshooting of electronic equipment
- Operation and servicing of electronic equipment
- Technical sales and technical support
- Hardware and software applications

Special Features of the Course
There is a strong emphasis on practical work in the course and there is a project element in each semester where students construct and test electronic circuits. There is also hardware and software integration in some of these projects.

Follow on Study
BEng in Electronic Engineering (WD206) - Year 3

Jenny Ball - Intel Women in Technology Award recipient

"I thought Electronic Engineering would be an interesting route to take. I’d always been into computers and circuits so this course was perfect. I think the more women we see go into engineering and technology the better. Following the higher cert in Electronic Engineering, I have since enrolled in the level 8 BSc in Applied Electronics here at WIT."

Student View

Course Outline

YEAR ONE
- Semester Two: Combinational Digital Systems, Discrete Active Circuits, Electrical Science 2, Electronic Design Software, Electronic Project, Introductory Calculus

YEAR TWO
- Semester Four: Electronic Power Circuits, Programmable Digital Systems, Industrial Instrumentation, Linear Algebra and ODE’s, Electronic Systems 2, Control Systems

Course outline is subject to change.
What is Electronic Engineering?
Common electronic systems include applications like mobile phones, sound and vision systems, computer and information technology, automation and machine control, robotics and biomedical engineering. Electronic engineering is concerned with the design, development, manufacture and application of electronic devices, circuits and systems.

Course Aims
The BEng in Electronics three year programme which prepares students for employment and/or further education in the area of electronic engineering.

Career Opportunities
Graduates of the Bachelor of Electronic Engineering Degree will find work in the following areas:
- Telecommunications (e.g. Nokia, Ericssons)
- Microprocessor manufacture (e.g. Intel)
- Field service engineering (e.g. Siemens)
- Automotive Electronics
- Software development C/C++/JAVA
- Technical sales

Special Features of the Course
There is a strong emphasis on project work in the course. Students design, construct and test embedded electronic applications.

Example project application areas include Robotics, Automotive Electronics, Telecommunications, Sensors & Interfacing to Mobile Phones and WWW. The BEng has a strong embedded electronic, software and instrumentation emphasis.

Follow on Study
BEng (Hons) in Electronic Engineering (WD007 ECE) - Year 3

My favourite thing about this course was building the Robocar, it was something new, it hadn’t been done before in any other IT across the country and it was different. It was great because of the opportunities it gives you. If you enjoy being creative and doing things with your hands, building things from scratch and seeing how things work, this is the course for you.”

Shane Shortiss
BACHELOR OF ENGINEERING IN

ELECTRICAL ENGINEERING

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
3 years

POINTS 2018
Min: 189
Range: 189 - 433

COURSE LEADER
Siobhan Wall
Email: swall@wit.ie

What is Electrical Engineering?
Electrical engineering is concerned with the basic forms of energy that run our world. Whether it’s gas, hydro, turbine, fuel cell, solar, geothermal or wind energy, electrical engineers deal with distributing these energies from their sources to our homes, factories, offices, hospitals and schools. Electrical engineering also involves the exciting fields of electronics and information technology.

Electrical engineering supplies us with the ability to harness electricity which has transformed our lives. It gives us light, heat, communication systems and comfort. Electrical engineers create and design products and information systems using scientific principles combined with problem-solving and innovation.

Course Aims
This course is a three year level 7 degree in Electrical Engineering. The course is designed to fully equip the students with the skills required to function as an engineering technician in the areas of electrical services, control, automation, energy production, renewable technologies and energy policy and legislation. The first year of the course is designed to introduce students to the fundamentals of maths, engineering science and technology that underpin the study of engineering. It will equip students with the knowledge required to undertake a more specific study of engineering in relation to electrical engineering in years two and three.

Special Features/Placement
Students will undertake a number of project modules, which will be industry supported and driven and will prepare the student for working as part of an engineering team in industry.

Career Opportunities
Graduates from this course may find employment in fields such as:
- Pharmaceutical Industry
- Medical Technology
- Manufacturing Engineering
- Power Generation
- Renewable Energies
- Electrical Contracting

Filling roles such as:
- Electrical Technician
- Maintenance Technician
- Field Service Engineer
- Electrical Services Engineer

Follow on Study
BEng (Hons) in Electrical Engineering (WD007 ELE) - Year 3

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
Fundamental Engineering Maths
Electrical Science 1
Electronic Devices & Theory
Engineering Science 1
Computer Aided Electrical Engineering 1
Learning Skills / Communications

SEMESTER TWO
Introductory Calculus
Electrical Science 2
Discrete Active Circuits
Electrical Engineering 1
Computer Aided Electrical Engineering 2
Electrical Workshop

YEAR TWO

SEMESTER THREE
Further Calculus & Probability
Engineering Software Tools
Instrumentation & Measurement
Electrical Engineering 2
Security Systems Design
Applied Electrical Engineering Project

SEMESTER FOUR
Linear Algebra & ODEs
Building Services
Robotics & Control
Electrical Machines
Power Systems
Electrical Control Project

YEAR THREE

SEMESTER FIVE
Maths Transform Methods
Mechatronics 1
Industrial Electronics
Electrical Services Design
Electrical Power Engineering
Electrical Engineering Project 1

SEMESTER SIX
Linear & Fourier Analysis
Lighting & Daylight Design
Industrial Automation
Sustainable Heat & Power Generation
Engineering Management & Enterprise
Electrical Engineering Project 2

STUDENT VIEW

“As an Electrician returning to full time education it was always going to be a challenge to me however the help that I received from the lecturers involved was hugely beneficial. The course itself is demanding however it is very well balanced between theory and practical work which is very enjoyable. The opportunities open to me from this course are extensive and you will get out of it what you put in.”

Stephen Gough

YEAR ONE
YEAR TWO
YEAR THREE
What is Civil Engineering?
Civil Engineering specialises in the planning, design, construction and maintenance of major structures such as roads, railways, bridges, tunnels, airports, harbours, power stations and large structures of every kind from skyscrapers to offshore oil rigs.

Course Aims
The BEng in Civil Engineering is a three year degree course, which prepares graduates to find employment as civil engineering technicians in the civil engineering sector.

Career Opportunities
Civil Engineering technicians find employment with:
- Local authorities
- Civil engineering contractors
- Consulting engineers
- Government departments

Follow on Study
BEng (Hons) in Sustainable Civil Engineering (WD007 SCE) - Year 3
BEng (Hons) in Sustainable Energy Engineering (WD007 SEE) - Year 3
BSc (Hons) in Construction Management & Engineering (WD025)

“I chose to study at WIT as I knew a lot of people who had studied at WIT and all of whom said they thoroughly enjoy their experience. As part of my studies, we were required to undertake a six month industrial placement. I was lucky enough to get the opportunity to work with John Sisk & Sons. I was based on the construction of a large residential development in Wembley, London, overlooking the iconic Wembley stadium.”

Jimmy Byrne
ENTRY REQUIREMENTS
5 subjects: O6/H7
  English or Irish: O6/H7
  Mathematics: O6/H7

DURATION
2 years

POINTS 2018
Min: 223
Range: 223 - 476

What are Building Services Engineers?
Building Services Engineers deal with the design, installation and maintenance of mechanical and electrical systems within buildings. These systems include heating, ventilation, air-conditioning, refrigeration, energy management, water supply, drainage, fire prevention, lighting, electrical supply and control. They also deal with renewable energy technologies and determine the energy performance of buildings.

Course Aims
This is a two year certificate course, which prepares students for employment in the engineering sector at technician level.

Career Opportunities
- Design and Consulting engineers
- Building Services contractors
- Facilities Management
- Energy Management
- Technical sales

Follow on Study
BEng in Building Services Engineering (WD209) - Year 3

Special Features of the Course
There are regular site visits throughout the course to see building services systems, such as heating, ventilation and air-conditioning, being installed in a variety of different building types. The students undertake a project in second year to design the services required for a modern commercial building.

STUDENT VIEW
“I found that WIT gave me an excellent understanding of the basics of engineering and beyond. Since graduating, my job is developing standards that will ensure that we will live in a more sustainable country and influencing other EU countries to follow our lead. I am a proud graduate of WIT and the lecturers always have time for their students and are always helpful when I couldn’t get my head around course content.”

Paul Pembroke
Course Aims
The BEng in Building Services Engineering is a three year degree course which prepares students for employment in the mechanical services engineering arena.

Career Opportunities
- Building Services Engineering Consultancies
- Building Services Engineering Contracting companies
- Commissioning of heating, ventilation and air-conditioning systems

Site Visits
There are regular site visits throughout the course to see building services systems, such as heating, ventilation and air-conditioning, being installed in a variety of different building types. The students undertake a project in second year to design the services required for a modern commercial building.

Follow on Study
BEng (Hons) in Sustainable Energy Engineering (WD007 SEE) - Year 3

"Going back to college was a bit daunting but the lecturers and student support office were very helpful with any queries I had about extra tuition, study skills, how to use the library databases and about fees. College life takes discipline, lots of hours of study. I definitely gained time management skills in order to meet assignment deadlines! The social life is excellent with pre-arranged nights out, a variety of clubs and societies to get involved with and a well-equipped gym on campus. When I graduated from the BEng I went onto study the honours degree in renewable & sustainable energy. My overall experience of studying at WIT was a positive one and will help me in the years to come to build a rewarding career as an Engineer."

James Prendergast
BACHELOR OF SCIENCE (HONS) IN
CONSTRUCTION MANAGEMENT 
& ENGINEERING

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O5/H7
Mathematics: O5/H7

DURATION
4 years

POINTS 2018
Min: 264
Range: 264 - 478

COURSE LEADER
Dr. Brian Graham
Email: bgraham@wit.ie
Tel: 051 302084

What is Construction Management & Engineering?
Construction Management & Engineering prepares students for responsible engineering and management roles in all phases of construction projects. It emphasises management, engineering and technological techniques useful in organising, planning and controlling the activities of diverse specialists working in the project environment of the Irish and international construction industry.

Course Aims
The BSc (Hons) in Construction Management & Engineering is a four year course that prepares graduates for a career as professional construction managers and engineers in the Irish and worldwide construction industry.

Career Opportunities
- Project Management
- Construction Engineering
- Design & Build
- Information Technology
- Facilities Management
- Property Development
- National & International Projects
- Business Development

Industrial Placement
Each student is required to complete a 30-week paid industrial placement with a construction company in the second period (February to September) of the third year. The companies comprise general contractors in civil engineering, building and residential property, project management companies, specialist contractors, engineering design offices and materials manufacturers.

Follow on Study
- MSc in Construction Project Management
- MSc in Sustainable Energy Engineering
- MSc/PhD Research

STUDENT VIEW
“...My time at WIT couldn’t have gone better, I won runner up for the best dissertation with Sisk as well as runner up for the Clancy Award for my placement with BAM. I chose the course because of the reputation it had, lots of top guys in the industry had done this course and spoke so highly of them, plus the seven month work placement.”

Hugh Brooke Cameron

COURSE OUTLINE

YEAR ONE
SEMESTER ONE
Construction Measurement
Introduction to Management
Mathematics
Construction Technology
Introduction to ICT
Communications & Study Skills

SEMESTER TWO
Construction Economics
Management Studies
Theory of Structures
Engineering Services
Intro to Construction Materials
Introduction to BIM

YEAR TWO
SEMESTER THREE
Intro to Construction Law
Services Technology
Geotechnical Engineering
Construction Methods
Procurement Strategy
ELECTIVE

SEMESTER FOUR
Tendering & Estimating
Intro to Project Management
Design of Structures
Introduction to Surveying
Integrated Project
ELECTIVE

YEAR THREE
SEMESTER FIVE
Engineering Structure
Site Surveying
Construction Tech. Systems
Construction Health & Safety
Measurement & Costing
ELECTIVE

SEMESTER SIX
Research Methods
Industrial Placement 1
ELECTIVE

YEAR FOUR
SEMESTER SEVEN
Development Economics
Project & Corporate Management
Temporary Works Design
Services Tech & Integration
Dissertation
Industrial Placement 2

SEMESTER EIGHT
Construction Law
Marketing & Finance
Quality & HRM
Innovative Technology
Dissertation
ELECTIVE

YEAR FIVE
SEMESTER NINE
**Course Aims**

This course has been designed to produce graduates who can successfully operate as professional quantity surveyors/costs consultants in the future Irish and global construction industry. They will be able to communicate effectively, have a working knowledge of relevant Information and Communications Technologies (ICT). The course is fully accredited by the Society of Chartered Surveyors Ireland (SCSI).

**Career Opportunities**

There has been a demand for qualified Quantity Surveyors and this demand continues to exist with both Professional Quantity Surveying/ Cost Consultant practices and with Construction companies both in Ireland and overseas.

**Industrial Placement**

Each student is required to complete a 30-week industrial placement relating to quantity surveying. This paid placement will be typically with either a quantity surveying consultancy or a construction company. Placements will normally be organised by WIT and be completed in Ireland. There is however the possibility of placements in the UK and further afield. Each placement will have an academic supervisor and an industrial supervisor.

**Follow on Study**

MSc in Construction Project Management
MSc/PhD Research

**Course Outline**

**YEAR ONE**

**SEMESTER ONE**
- Introduction to Management
- Measurement & Estimating (1)
- Mathematics for Surveyors
- Residential Technology (1)
- Communications & Study Skills
- Introduction to ICT

**SEMESTER TWO**
- Introduction to Economics
- Measurement & Estimating (2)
- Management Studies
- Residential Technology (2)
- Introduction to Land Surveying
- Introduction to BIM

**YEAR TWO**

**SEMESTER THREE**
- Procurement Strategy
- Measurement & Estimating (3)
- Introduction to Construction Law
- Commercial Technology (1)
- Services Technology (1)
- ELECTIVE

**SEMESTER FOUR**
- Cost Planning
- Measurement & Estimating (4)
- Introduction to Project Management
- Commercial Technology (2)
- Integrated Project
- ELECTIVE

**YEAR THREE**

**SEMESTER FIVE**
- Construction Administration
- Measurement & Estimating (5)
- Contracts Studies
- Construction Health & Safety
- Advanced Technology
- ELECTIVE

**SEMESTER SIX**
- Research Methods
- Industrial Placement 1

**YEAR FOUR**

**SEMESTER SEVEN**
- Development Economics
- Value Management
- Project & Corporate Management
- Services Technology & Integration
- Dissertation
- Industrial Placement 2

**SEMESTER EIGHT**
- QS Professional Practice
- Marketing & Finance
- Construction Law
- Advanced Measurement
- Dissertation
- ELECTIVE

**Student View**

“Over these past four years I have thoroughly enjoyed my time studying Quantity Surveying in Waterford Institute of Technology where I have met some amazing people and made great new friends. Due to the wide range of modules and areas the course covers, it is well known that WIT produces some of the best Quantity Surveyors in the country.

This course is leading the way with all the latest trends in the Industry; students develop software skills such as Cubit, Cost X and Building Information modelling. Site visits and field trips are arranged regularly so students see first-hand how knowledge from the classroom is implemented on site.

Because the lecturers were so approachable and helpful I never felt like I couldn’t ask a question, they genuinely take interest in the students and are always available to assist in the student’s progression. WIT is one of few colleges which incorporate a 7 month work experience placement into the course; for the placement period in 2015 students gained work experience in New York, London, Qatar, Saudi Arabia and across Ireland. All students were offered full time employment prior to their graduation.”

Nicky Creane
What is Architecture?

‘Architecture involves everything that influences the way in which the built environment is planned, designed, made, used, furnished, landscaped and maintained’ UNESCO/UIA charter for architectural education 2005.

Course Aims

It is a five year honours degree course, designed in accordance with national and international guidelines on architectural education. It has received full accreditation by the Royal Institute of Architects of Ireland (RIAI).

Architectural education at WIT is primarily about developing within each student a ‘design mind’ so that they can bring together in a creative way the complex challenges facing the future world of construction. Students are introduced to design methodologies and work in a ‘learning through doing’ environment in the studio where they explore architectural designs growing in complexity as they progress through the various years. They are taught the importance of culture, climate and craft in developing design ideas. Feeding into these studio based projects are the supporting subjects grouped under the generic headings of ‘Cultural Context’, ‘Communications’, ‘Technology & the Environment’ and a suite of electives including languages and life drawing which introduces students to related disciplines as well as facilitating international exchange programmes.

International Links

Agreements have been signed with schools of architecture in France, Mexico and Germany facilitating exchange study programmes. Languages are taught as electives to encourage students to avail of these travel opportunities. Annual trips to European capitals take place in all stages of the course.

Additional Points

Applicants who apply to the CAO by 1 February may qualify for consideration for additional points for this course. For more information visit, www.wit.ie/admissionspolicies

Career Opportunities

- Architectural Design Offices
- Researching

Follow on Study

Masters/ PhD Programmes in the School of Engineering at WIT.
“I loved DCG so much in school that I wanted to study something similar in College. I also find I do best under continuous assessment. I spoke with my careers teacher in school about studying Architecture and she recommended putting WIT down in the CAO because of the reputation the lecturers have. I then spoke to my parents and researched the course and the lecturers bodies of work and that’s why I chose WIT.”

Daniel O’Driscoll
What is Architectural Technology?
Architectural Technology concentrates on the science of building. Architectural Technologists become specialists in preparing detailed drawings and specifications for building projects. They work closely with architects and other members of the design team.

Course Aims
This three year course enables students to become competent in preparing construction drawings and specifications for complex building types. There is also an emphasis on environmental studies ensuring awareness of energy saving measures in detailing and construction. Students are taught various computer software packages. They explore various graphical ways of presenting drawings. They are introduced to structures and architectural history as well as to the principles guiding construction law and professional practice.

Career Opportunities
- Architect’s office
- Government department or local authorities
- Commercial firms, for instance manufacturers or suppliers in the building industry
- Setting up a company in specialist areas

Follow on Study
- BSc (Hons) in Architectural & Building Information Modelling Technology (WD195) - Year 4
- Transfer onto Bachelor of Architecture (WD144) (subject to certain procedures)

“I took the opportunity in the first semester of 2nd year to study as an Erasmus exchange student with Haslev College, Denmark which I found very rewarding to my overall development as a technologist. WIT taught and supported us to develop our computer skills. The image above is from my final 3rd year presentation. By investing time in the emerging BIM technologies such as Revit I was able to gain employment in a large Irish Architectural Practice where these skills are in short supply across the construction industry. I am now collaborating on BIM projects across Europe.”

Michael Connolly

Survey of O’Connell Bianconi (Health Sciences) Building, Main Campus, WIT
What is Architectural & Building Information Modelling Technology?
Architectural and BIM Technology is an innovative approach to the integration of traditional architectural technologist skills-sets together with Building Information Modelling (BIM) processes and technologies which are currently transforming the way in which construction projects are procured, managed and built.

Course Aims
This four year programme enables students to become architectural technologists with additional advanced skills in Building Information Technology (BIM). Students will become competent in the ‘science of building’ and the production of construction drawings and specifications for complex building types, allowing them to become technical members of construction design teams. Students will also acquire an advanced knowledge in the application of BIM methodology which is an integrated collaborative approach for building project delivery between the relevant professionals, i.e. engineers, quantity surveyors, architectural professions and the building contractor. The inclusion of an Industrial Placement (work experience) module and modules in Project Management, Property Pathology and Refurbishment, Value Engineering and Construction Collaboration Technologies, will also enable the graduate to become an interdisciplinary practitioner within the construction industry.

Special/Unique features
The BSc (Hons) in Architectural and Building Information Modelling (BIM) Technology is the only undergraduate programme in Ireland promoting BIM at its core.

Career Opportunities
- Architectural Technologist Consultancy
- Architectural Design Office
- BIM Managers in AECDFM (Architecture - Engineering - Construction - Facilities management) Companies
- Government Departments or Local Authorities
- Manufacturers & Suppliers for the Construction Industry.
- Research for AECFM

Follow on Study
- Masters/PhD Programmes in the School of Engineering
- MSc in Sustainable Energy Engineering
- MSc in Construction Project Management
- Higher Diploma in Building Information Modelling

STUDENT VIEW
"After researching courses to do with construction, Architectural Technology caught my interest most because it combines architecture design with a more construction based approach. WIT was one of the few Institutes in Ireland which had this course option and the lecturers in WIT were teaching more innovative software and more advanced skills. WIT was also very close to home, which gave me the ability to commute by bus for my first year studying."

PJ Doyle
SCHOOL OF
HEALTH SCIENCES

www.wit.ie/healthsciences

DEPARTMENT OF NURSING & HEALTH CARE
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WD005 Health Sciences (Common Entry) 50
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WD188 BSc in Applied Health Care 53
WD116 BSc (Hons) in General Nursing 54
WD117 BSc (Hons) in Psychiatric Nursing 55
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DEPARTMENT OF SPORT & EXERCISE SCIENCE
Head: Michael Harrison, BSc, PGCE, MSc, PhD

WD006 Exercise Sciences (Common Entry) 57
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ESN BSc (Hons) in Nutrition & Exercise Science 59
ESH BSc (Hons) in Health & Exercise Science 60
WD186 BSc (Hons) in Sports Coaching & Performance 61
WD019 Bachelor of Business in Recreation & Sport Management 62
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HEAD OF SCHOOL
John Wells, PhD, MSc, BA (Hons), PG Dip (Ed), RNT, RNP

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Disclaimer:
All course titles and information are subject to change.
We are constantly improving our portfolio of courses.
See www.wit.ie for the most up to date information.
### DEPARTMENT OF NURSING & HEALTH CARE

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### DEPARTMENT OF SPORT & EXERCISE SCIENCE

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<td>- Transfer Year 4</td>
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Advanced Entry: Students who have completed all or part of a third level qualification may be eligible for entry into years other than year 1 of our courses. See [www.wit.ie/advancedentry](http://www.wit.ie/advancedentry)
Health Sciences (Common Entry)

Health care is a broad field with diverse areas of work where health science graduates can make a difference to people’s lives. There are many career options across a wide range of health related industries, ranging from direct individualised care to people across the lifespan from infancy to old age, including those person with special needs, or through telehealth and telecare careers, to health care management roles or research.

Course Aims

The Common Entry Scheme is for students interested in Health Care as a career, but who may be unsure of what exact area of health care they would like to work in. WD005 is the gateway for the two Level 8 BSc (Hons) degrees in Waterford Institute of Technology, an Applied Health Care degree or a Public Health and Health Promotion degree. In these degrees, placement experiences allow the student to experience the broad field of health care and so help them choose what career paths they could take.

Year One

In the first year students get an opportunity to study areas of health care in both semesters including applied health care and health promotion and if uncertain about which area of health science to study, a decision on which area they would like to focus does not have to be made until the end of first year.

Student Study Advisor

All students are assigned a study advisor, a lecturer from the Department, and are encouraged to link with this advisor to discuss programme progress and any issues including programme options and career opportunities.

This support offers the opportunity to ask detailed questions and get individual guidance as to which discipline they could pursue. From second year onwards the student choses to study either applied health care or health promotion and public health.

ENTRY REQUIREMENTS

2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION

4 years

POINTS 2018

Min: 290
Range: 290 - 578

COURSE LEADERS

Dr. Niamh Murphy
Email: nmurphy@wit.ie, Tel: 051 302640
Louise Bennett
Email: lbennett@wit.ie, Tel: 051 845558

ENTRY REQUIREMENTS

2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION

4 years

POINTS 2018

Min: 290
Range: 290 - 578

COURSE LEADERS

Dr. Niamh Murphy
Email: nmurphy@wit.ie, Tel: 051 302640
Louise Bennett
Email: lbennett@wit.ie, Tel: 051 845558

Common Entry Degree Options

<table>
<thead>
<tr>
<th>COMMON ENTRY</th>
<th>DEGREE OPTIONS</th>
<th>FOLLOW ON STUDY</th>
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<tr>
<td>WD006</td>
<td>BSc (Hons) in Public Health &amp; Health Promotion</td>
<td>Postgraduate study at WIT MSc/PhD</td>
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<tr>
<td>WD005</td>
<td>BSc (Hons) in Applied Health Care</td>
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O’Connell Bianconi Building, Cork Road Campus
**Course Aims**

By undertaking the BSc (Hons) in Public Health and Health Promotion at WIT you will become an accredited public health and health promotion practitioner and enjoy a diverse career helping to improve the health and wellbeing of individuals and populations.

The course develops the skills and competencies in students to support individuals and communities to live healthier and happier lives. You will study nutrition and learn the science behind a healthy diet, how to analyse the diet and promote dietary change. Students will learn practical facilitation and behaviour change skills and how to be an excellent communicator. In addition, students will learn how to be an excellent consumer of research and how to conduct research, to develop, implement and evaluate health interventions and campaigns and will have the opportunity to apply their skills in a practical setting. Students will also learn about the body, human disease, and how to conduct health screening and measurement. Students will learn about social justice, inequality, policy and public health, and how to work with state agencies, local government, NGOs and communities to build capacity for better health.

**Accreditation**

The programme is accredited under the International Union of Health Promotion and Education (IUHPE) Health Promotion Accreditation System. When you graduate your qualification will be recognised worldwide.

**Work Placement**

There is a 16 week placement in third year of the course. This introduces the student to practical health promotion settings and provides the student with a broader skill base. Students have been placed in the following settings: Health Service Executive, Health Promotion Depts, Youth Services, Adolescent Health and Information Projects, Community Projects and Adult Education Service, V.E.C.s. International placement & options to study abroad may also be available.

**Your Peers**

You will work in small groups with close attention from well qualified staff. Students take part in a peer to peer (P2P) programme that is run within WIT. You also get a chance to take part in Department events (table quiz) and help out with health initiatives on and off campus with your peer group.

**The Staff**

The staff in WIT are highly qualified, active practitioners and have excellent community, practice and research links.

**Career Opportunities**

- Occupational Therapist, Physiotherapist, Dietician or Nutritionist
- Health Promotion and Improvement Officer
- Youth or community worker
- Health researcher
- Health services
- Workplace health promotion/occupational health
- Health screening and lifestyle counselling
- Private health company
- Overseas development
- Health promotion for special population groups –homeless, drugs, older adult, young offenders

**Follow on Study**

Opportunities for postgraduate research study in WIT in the health promotion field & in Social, Personal & Health Education (SPHE).

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### COURSE OUTLINE

#### YEAR ONE

<table>
<thead>
<tr>
<th>SEMESTER ONE</th>
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<tr>
<td>Anatomy and Physiology 1</td>
<td>Anatomy and Physiology 2</td>
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<tr>
<td>Care of the Older Adult</td>
<td>Fundamentals of Care 1</td>
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<tr>
<td>Psychology of Health</td>
<td>Medical Surgical Care</td>
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<tr>
<td>Health Care Informatics</td>
<td>Principles of Health Promotion</td>
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<td>Learning to Learn</td>
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<tr>
<td>Health Promotion in Key Settings</td>
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<tr>
<td>Communication and Media Skills</td>
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<tr>
<td>Introduction to Epidemiology &amp; Public Health</td>
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<td>Nutrition: Vitamins &amp; Minerals</td>
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<td>Sociology of Health</td>
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<td>Basic Facilitation Skills for Health and Well Being</td>
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<td>Active Citizenship</td>
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<td>Practical Media Skills</td>
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<td>Introduction to Mental Health</td>
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<tr>
<td>Health Screening</td>
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<td>Nutrition: Energy &amp; Macro-Nutrients</td>
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<td>Intro to Research Methods &amp; Statistics</td>
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### YEAR TWO

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<td>Active Citizenship</td>
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<tr>
<td>Lifestyle and Health</td>
<td>Practical Media Skills</td>
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<td>Placement 2</td>
<td>Introduction to Mental Health</td>
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<td>Promoting Health in Children and Young People</td>
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<td>Equality and Inclusion</td>
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<td>Advanced Research Methods and Stats</td>
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<td>Promoting Health in Older Adults</td>
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### YEAR THREE

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<tr>
<td>Public Health 1</td>
<td>Public Health 2</td>
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**Contact:**

Dr. Niamh Murphy
Email: nmurphy@wit.ie
Tel: 051 302640
Course Aims
The Bachelor of Science (Hons) in Applied Health Care is a four year honours degree course which allows the student to develop as a self-aware, reflective graduate who is a confident practitioner and able to integrate and use their knowledge, skills and attitudes in a variety of health care situations and contexts by applying the best available evidence for their practice.

Unique Features
The modules included address areas of knowledge and skills that will prepare the graduate for a career in a range of health care areas. Key areas of study include care skills, mental health and recovery, sociology and psychology related to health care, ethical and legal issues, disability and palliative care.

Students will complete a relevant work placement as part of the course, which allows you to put theory into practice. Prior to going on placement, students will be required to have satisfactory Garda Vetting/Police Clearance, Mandatory Training (including CPR, Manual Handling) and Occupational Health clearance. This will be coordinated by WIT staff.

Health care delivery is changing and there are now emerging roles in the multi-professional delivery of health care. Therefore the module ‘Technician Roles in Applied Health Care’ will support the student to explore these emerging roles and how they may interact with these in their careers.

Career Opportunities
The student can choose to work in health care including older adult, intellectual disability and acute care as carer or manager. Settings for this care will include community and long term care facilities. Opportunities for careers also include non-direct care roles for example as medical representatives.

Follow on Study
Students can access postgraduate MSc programmes in health care and further opportunities for postgraduate research are also available.

There are also evidence-based practice/research modules. Inclusion of evidence-based practice and research in this programme enables the student to develop critical thinking and analytical skills so as to be able to critically examine the evidence base in the area of applied health care.

The student will also study management and leadership in health care and through this module will explore both the theoretical aspects of management and leadership but also will focus on how this knowledge can be utilised in health care practice. The management and leadership modules will enable them to become involved in both management of their own workload, but also to become involved in supervision of others.

Course outline is subject to change.

“Studying the BSc (Hons) in Applied Health Care has led to many great benefits in both my personal and academic life. I have gained a variety of new skills in WIT and while on work placement which will assist me whilst working in the health care industry both nationally and internationally. WIT has a student orientated campus and a warm, friendly and professional studying environment.”

Jessica Benson
## BACHELOR OF SCIENCE IN

**APPLIED HEALTH CARE**

**ENTRY REQUIREMENTS**
- 5 subjects: O6/H7
- English or Irish: O6/H7
- Mathematics: O6/H7

**DURATION**
- 3 years

**POINTS 2018**
- Min: 242
- Range: 242 - 565

**COURSE LEADER**
- Louise Bennett
- Email: lbennett@wit.ie
- Tel: 051 845558

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## Course Aims

The BSc in Applied Health Care is aimed at students interested in health care delivery and applied health care. The underpinning philosophy of the programme is to ensure that all personnel working in health care are appropriately educated and trained to deliver safe care to patients in a range of health care settings.

The course aims to develop self-aware, reflective graduates, who will be confident in their delivery of health care. Graduates may be involved in the organisation and or delivery of direct health care in hospitals, community care, general practice, the pharmaceutical industry and health research. The course also prepares students for the emerging area of internet and telephone health care delivery.

**International Links with Columbus Technical College, United States**

Graduates of the BSc in Applied Health Care have the opportunity to progress to Columbus Technical College and pursue further education in the field of nursing and continue further studies to become a US registered nurse.

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## Career Opportunities

Graduates may gain employment in the following areas:
- Applied health care provision in a variety of settings including hospitals, clinics, community care settings and nursing homes
- Managing & coordinating General Practices
- Sales representatives in the pharmaceutical industry
- Delivery of health care in the emerging telehealth industry
- Health research
- Postgraduate study

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## Special Features

- Students will complete a relevant work placement during each year of the course, which allows you to put theory into practice.
- Prior to going on placement, students will be required to have satisfactory Garda Vetting/Police Clearance, Mandatory Training (CPR, Manual Handling) and Occupational Health. This will be coordinated by WIT staff.

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## Follow on Study
- Bachelor of Science (Hons) in Applied Health Care (WD005 AHC) - Year 4

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## Course Outline

### Year One
- **Semester One**
  - Learning to Learn
  - Care of the Older Adult
  - Psychology for Health Care
  - Anatomy & Physiology 1
  - Introduction to Healthcare Informatics
  - Lifeskills for Health & Wellbeing
- **Semester Two**
  - Principles of Health Promotion
  - Fundamentals of Care 1
  - Medical Surgery Care 1
  - Anatomy & Physiology 2
  - Placement 1

### Year Two
- **Semester Three**
  - Fundamentals of Care 2
  - Pharmacology for Health Care 1
  - Medical Surgical Care 2
  - Placement 2
- **Semester Four**
  - Professional Development & Community
  - Medical Surgical Care 3
  - Pharmacology for Health Care 2
  - Activity Coordination for Older Adult
  - Nutrition for Health
  - Introduction to Mental Health Care
  - Placement 3

### Year Three
- **Semester Five**
  - Introduction to Evidence Based Health Care
  - Introduction to Intellectual Disability Care
  - Applying Psychology & Sociology to Health Care
  - Medical Surgical Care 4
  - Placement 4
- **Semester Six**
  - Management of Care
  - Management of Care Placement
  - Connected Health
  - Maternal & Newborn Health
  - Health & Wellbeing

Course outline is subject to change.

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## Student View

“I wasn’t sure what area of health care I wanted to go into leading up to the completion of my Leaving Cert until I found out about the BSc in Applied Health Care. This course gives you an insight into every area of health care via both lectures and work placement. In first year I completed a placement in a Care of the Older Adult setting whilst in second year I completed my placement in a General Practice.”

Aaron Donnelly
BACHELOR OF SCIENCE (HONS) IN
GENERAL NURSING

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7
Science: O6/H7

COURSE REQUIREMENTS
Biological, physics, chemistry, physics & chemistry (joint) or agricultural science are accepted as a science subject. The minimum educational requirements may be accumulated over not more than two sittings of the leaving certificate examination or an equivalent examination. Garda Clearance & Occupational Health Clearance required.

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
Anatomy and Physiology 1
General Nursing Skills and Experience 1
Introduction to General Nursing 1
Learning to Learn
Personal and Professional Development
Professional and Personal Safety 1

SEMESTER TWO
Anatomy and Physiology 2
Fundamentals of General Nursing
Health and Psychosocial Studies 1
Introduction to Evidence Based Practice 1
Medication Management 1
Nursing Experience 2

YEAR TWO

SEMESTER THREE
Introduction to Pathophysiology
Health and Psychosocial Studies 2
Medication Management 2
Nursing Experience 3
Nursing in the Community
Specialist practice:
Nursing knowledge and skills

SEMESTER FOUR
Ethical, Legal and Political Issues in General Nursing
Evidence Based Practice 2
Medical and Surgical Nursing 1
Developing Nursing Skills
Nursing Experience 4

YEAR THREE

SEMESTER FIVE
Chronic Illness Management and Care of the Older Adult
Medication Management 3
Nursing Experience 5
Professional and Patient Safety 3

SEMESTER SIX
Applied Pathophysiology
Evidence Based Practice 3
Management and Leadership in Healthcare
Medical and Surgical Nursing 2
Enhancing Nursing Skills
Nursing Experience 6

YEAR FOUR

SEMESTER SEVEN
Cancer and Palliative Nursing Care
Consolidation of Nursing Skills for Professional Practice
Health and Psychosocial Studies 3
Nurse as Educator in Practice / Preceptorship
Nursing Experience 7
Professional and Patient Safety

SEMESTER EIGHT
Consolidation of Knowledge Science Values and Attitudes, Skills and Experience through Clinical Internship. This is a 36 week placement within the South East.

STUDENT VIEW

“The department of nursing provides state of the art facilities for carrying out practical skills. The course content is taught in small groups, allowing opportunities to develop better relationships with lecturers and peers. From the first I found WIT to be friendly and homely. The campus has everything a student requires, both academically and socially. WIT emailed students about the Student Entrepreneur awards 2016 and I was immediately drawn to it. It was a real opportunity to go forward with one of my ideas while on placement. I have thoroughly enjoyed being involved in the competition. It has opened many doors which I never dreamed possible. I now have recently graduated and am working in an acute emergency department, which I just love.”

Chloe Byrne

[Image of Chloe Byrne]

DURATION
4 years

LEVEL
8

POINTS 2018
Min: 414
Range: 414 - 497

APPLY CAO
wit.ie/wd116

COURSE LEADER
Catherine Madden PhD
Email: cmadden@wit.ie

What is General Nursing?
General nurses work as part of a multidisciplinary team in promoting and maintaining health of individuals, families and communities and in systematically caring for those who develop health problems and supporting them to live their lives to their maximum potential.

Course Aims
Nursing is an excellent choice for students interested in a health care career. Because human beings are complex, careers in nursing are amongst the most challenging; they are also some of the most rewarding. Once graduated, your qualifications will take you anywhere in the world. The General Nursing Course is delivered in a purpose-built, state-of-the-art learning environment and students undertake clinical practice in many hospitals throughout the south east region. You will be taught over four years through a model that we call KSVSE (Knowledge, Science, Values and Attitudes, Skills and Experience). Successfully completing all aspects of the course allows you to register as a General Nurse with An Bord Altranais.

Clinical Placements
Clinical experience is an essential element of the course in order to register as a general nurse. There are over 81 weeks of clinical placement throughout the course including a 36 week continuous internship placement in year four. Students will be accommodated on clinical placements in Wexford, Carlow, Waterford, Kilkenny and South Tipperary.

Career Opportunities
Graduates may apply for positions at staff nurse grade within the Irish health care sector. Universally Irish nurses are highly regarded in other countries thus enhancing work opportunities.

Postgraduate Opportunities
Graduates who wish to pursue a career in specialist nursing can apply for Higher Diploma courses/MSc in areas such as gerontology, coronary care, intensive care, peri-operative care, paediatric nursing and accident and emergency nursing. Alternatively graduates may choose to pursue advanced studies in nursing education or nursing management.
What is Psychiatric Nursing?
Psychiatric/Mental Health nursing is a specialist field within the health care profession. It involves an interpersonal caring process which acknowledges the uniqueness of each person. The psychiatric nurse is concerned with the promotion of mental health, the prevention of mental illness and the provision of care to those with mental health problems.

Course Aims
Nursing is an excellent choice for students interested in a health care career. Because human beings are complex, careers in nursing are amongst the most challenging; they are also some of the most rewarding. The Psychiatric Nursing Course is delivered in a purpose-built, state-of-the-art learning environment and students undertake clinical practice in hospitals around the south east region. You will be taught over four years through a model that we call KSVSE (Knowledge, Science, Values and Attitudes, Skills and Experience). Successfully completing all aspects of the course allows you to register as a Psychiatric Nurse with An Bord Altranais.

Clinical Placements
Clinical experience is an essential element of the course in order to register as a psychiatric nurse. There are over 81 weeks of clinical placement throughout the course including a 36 week continuous internship placement in year four. Students will be accommodated on clinical placements in Wexford, Waterford, Kilkenny, Carlow and South Tipperary.

Career Opportunities
Graduates may apply for positions at staff nurse grade within the Irish health care sector. Universally Irish nurses are highly regarded by other countries thus enhancing work opportunities.

Postgraduate Opportunities
Following qualification it is possible to specialise in a number of areas within psychiatric nursing - Cognitive Therapy, Behavioural Therapy, Adolescent Psychiatric Nursing, Eating Disorders, Psychiatric Nursing of Old Age, Forensic Psychiatric Nursing, Addiction Counselling at Higher Diploma or MSc level. Alternatively graduates may choose to pursue advanced studies in nursing education or nursing management.

COURSE REQUIREMENTS
Biology, physics, chemistry, physics & chemistry (joint) or agricultural science are accepted as a science subject. The minimum educational requirements may be accumulated over not more than two sittings of the leaving certificate examination or an equivalent examination. Garda Clearance & Occupational Health Clearance required.

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7
Science: O6/H7

YEAR ONE

SEMESTER ONE
Anatomy Physiology 1
Fundamental Nursing Skills and Psychiatric Nursing Experience
Introduction to Psychiatric Nursing
Learning to Learn
Personal and Professional Development
Professional and Personal Safety 1

SEMESTER TWO
Altered Mood and Perception
Anatomy and Physiology 2
Health and Psychosocial Studies 1
Introduction to Evidence Based Practice 1
Medication Management 1
Psychiatric Nursing Experience 2

YEAR TWO

SEMESTER THREE
Child and Adolescent Mental Health Disorders
Essential Nursing Skills: Specialist Groups
Health and Psychosocial Studies 2
Introduction to Pathophysiology
Nursing the Person with a Physical Illness
Psychiatric Nursing Experience 3

SEMESTER FOUR
Ethical, Legal and Political Issues in Mental Health Nursing
Evidence Based Practice 2
Nursing Mental Health Conditions In the Adult
Psychiatric Nursing Experience 4
Psychiatric Nursing and Medication Management

YEAR THREE

SEMESTER FIVE
Neuroendocrine Pathophysiology
Nursing Experience 5
Nursing Psychiatric Disorders in Later Life
Psychiatric Medication Management
Recovery and Social Inclusion

SEMESTER SIX
Evidence Based Practice 3
Integrated Psychiatric and Mental Health Nursing Skills 1
Management and Leadership in Healthcare
Professional and Patient Safety
Psychiatric Nursing Experience
Substance Misuse, Addictions and Nursing Interventions

YEAR FOUR

SEMESTER SEVEN
Contemporary issues in Acute and Community Setting
Health and Psychosocial Studies 3
Integrated Psychiatric and Mental Health Nursing Skills 2
Nurse as Educator in Practice / Preceptorship
Pre-internship Nursing Experience 7

SEMESTER EIGHT
Consolidation of Knowledge Science Values and Attitudes, Skills and Experience through Clinical Internship.
This is a 36 week placement within the South East.

STUDENT VIEW

“Studying psychiatric nursing at WIT is a fantastic experience both academically and socially. The college has excellent facilities which provide a great learning environment. The lecturers are at hand always to provide support and guidance. The course consists of both clinical placement and college time, which gives a good mix of theory and practical learning. I definitely made the right choice in attending WIT to study psychiatric nursing.”

Emma Byrne
What is Intellectual Disability Nursing?

Intellectual Disability nursing is seen as a speciality field of nursing that provides holistic care to persons with an intellectual disability. Intellectual disability nurses work as part of a transdisciplinary team in order to enable and empower people with intellectual disabilities to achieve their full potential.

Course Aims

Nursing is an excellent choice for students interested in a health care career. Because human beings are complex, careers in nursing are amongst the most challenging; they are also some of the most rewarding. The Intellectual Nursing Course is delivered in a purpose-built, state-of-the-art learning environment and students undertake clinical practice around the south east region. You will be taught over four years through a model that we call KSVSE (Knowledge, Science, Values and Attitudes, Skills and Experience). Successfully completing all aspects of the course allows you to register as an Intellectual Disability Nurse with An Bord Altranais.

Clinical Placements

Clinical experience is an essential element of the course in order to register as an Intellectual Disability nurse. There are over 81 weeks of clinical placement throughout the course including a 36 week continuous internship placement in year four. Students will be accommodated on clinical placements in Wexford, Waterford, Kilkenny, Carlow and South Tipperary.

Career Opportunities

Graduates may practice as a Registered Intellectual Disability Nurse within the Irish health care sector and voluntary services. Universally Irish nurses are highly regarded by other countries thus enhancing work opportunities.

Postgraduate Opportunities

Following qualification it is possible to specialise in a number of areas within intellectual disability nursing i.e. challenging behaviour, multiple and complex disabilities. Alternatively graduates may choose to pursue advanced studies in nursing education or nursing management.

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
Anatomy and Physiology 1
Intellectual Disability Nursing Skills and Experience
Introduction to Intellectual Disabilities Nursing
Learning to Learn
Personal and Professional Development
Professional and Personal Safety 1

SEMESTER TWO
Anatomy and Physiology 2
Caring for People with Intellectual Disabilities
Health and Psychosocial Studies 1
Introduction to Evidence Based Practice 1
Medication Management 1
Nursing Experience 2

YEAR TWO

SEMESTER THREE
Health and Psychosocial Studies 2
Introduction to Pathophysiology
Medication Management 2
Nursing Experience 3
Nursing Skills for Acute Care
Supporting People with Mental Health Problems

SEMESTER FOUR
Ethical, Legal and Political issues in Intellectual Disabilities
Evidence Based Practice 2
Nursing Experience 4
Nursing Skills
Supporting the Adolescent with Intellectual Disabilities

YEAR THREE

SEMESTER FIVE
Applied Pathophysiology
Behavioral Approaches in Intellectual Disabilities
Nursing Experience 5
Professional and Client Safety 3

SEMESTER SIX
Evidence Based Practice 3
Health Assessment Through the Lifespan
Management and Leadership in Healthcare
Medication Management 3
Nursing Experience 6

YEAR FOUR

SEMESTER SEVEN
Consolidation of Nursing Skills for ID Practice
Contemporary Issues in Intellectual Disability Nursing
Health Promotion for People with Intellectual Disabilities
Health and Psychosocial Studies 3
Nurse as Educator in Practice / Preceptorship
Nursing Experience 7

SEMESTER EIGHT
Consolidation of Knowledge
Science Values and Attitudes, Skills and Experience through Clinical Internship. This is a 36 week placement within the South East.

STUDENT VIEW

“The best part of the programme has definitely been the clinical placement which has given me a chance to gain much needed hands on experience. I’ve had the opportunity to work with both adults and children with varying levels of intellectual disabilities, in a range of services all across the south east. I enjoy my lectures when I’m in college and all the staff in the Department of Nursing and Health Care are approachable and helpful.”

Ciaran Murphy
EXERCISE SCIENCES
(Common Entry)

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
4 years

POINTS 2018
Min: 287
Range: 287 - 509

COURSE LEADER
Dr Barry Lambe
BA, BSc, MSc, MA, PhD
Email: blambe@wit.ie
Tel: 051 302158

What does Exercise Sciences Common Entry mean?
Students will have the opportunity to study the main components of Exercise Science for two years before they decide on their specialist degree. As such, you only need to decide that you want to study in the area of Exercise Sciences on entry to college and will decide at the end of your second year of study which degree you want to specialise in. On successful completion of the two year Common Entry students will have the option of studying for a Level 8 degree in either Sport & Exercise Science, Nutrition & Exercise Science or Health & Exercise Science.

Course Aims
The broad nature of the first two years of this degree programme aims to provide students with an exciting educational experience in Exercise Science in both the classroom and practical setting. It also aims to give students the opportunity to sample areas of specialism and to learn about the wide range of career opportunities available in the specialist areas before deciding on a career path.

Student Support
The Department of Sport and Exercise Science places particular importance on its support for students throughout their educational experience. Throughout your time on the programme you will have direct access to the advice of recognised leaders in the field of exercise science and in the specialist degree areas in order to explore your options and help you come to a decision as to which specialist exit degree is going to support you most effectively in achieving your post graduate career ambitions.

Your Choice of Specialist Pathway
Exercise Sciences (Common Entry) has three specialist exit degrees. Towards the end of your second year of the common entry degree programme you will be asked to select one of them to study in order to obtain your final award:

For the Level 8 award of a BSc (Hons) in Sport & Exercise Science over the course of the final two years of your degree you will study, in depth such areas as Conditioning for Performance Sport, Science of Elite Sports Performance and Sports Medicine to name but three (see page 58 for full Course Outline), as well as doing a significant research project in your final year of study. In the first semester of your final year you will have the exciting opportunity to complete a 12-week work based placement.

For the Level 8 award of a BSc (Hons) in Nutrition & Exercise Science over the course of the final two years of your degree you will study, in depth such areas as Assessment for Nutritional Status, Nutrition for Sports Performance and Sport and Exercise Nutrition to name but three (see page 59 for full Course Outline), as well as doing a significant research project in your final year of study. In the first semester of your final year you will have the exciting opportunity to complete a 12-week work based placement.

For the Level 8 award of a BSc (Hons) in Health & Exercise Science over the course of the final two years of your degree you will study, in depth such areas as Physical Activity Assessment and Evaluation, Nutrition for Health and Advanced Sport & Exercise Physiology to name but three (see page 60 for full Course Outline), as well as doing a significant research project in your final year of study. In the first semester of your final year you will have the exciting opportunity to complete a 12-week work based placement.

EXERCISE SCIENCES (Common Entry) DEGREE OPTIONS

COMMON ENTRY
WD006

DEGREE OPTIONS
WD006
BSc (Hons) in Sport & Exercise Science
WD006
BSc (Hons) in Nutrition & Exercise Science
WD006
BSc (Hons) in Health & Exercise Science

STUDENT VIEW
“I chose Exercise Science as I knew that I wanted to go down the route of working in the sport industry in some capacity when I finish college. On signing up for this course, I knew that I would be able to get an array of knowledge in many subjects such as Nutrition, Sports Psychology and Exercise Physiology & Exercise Medicine. Other key factors in my decision were the top class facilities and lecturers that the Department of Sport & Exercise Science has to offer.

Gavin Young

www.wit.ie
Course Aims
This programme builds upon the knowledge and skills you have acquired through the successful completion of the common entry programme in Exercise Science. It will provide you with a deeper understanding and practical skills in the scientific areas of physiology, biomechanics and psychology in order to maximise sports performance and improve general health and wellbeing through exercise.

Career Opportunities
Some careers below require follow-on postgraduate study.
- Sport Scientist (Exercise physiologist, Biomechanist)
- Strength and conditioning specialist
- Performance Analyst
- Sports psychologist
- Sport and Exercise Rehabilitation
- Sport and Exercise Nutritionist
- Personal Trainer
- Sports Development Officer

Work Placement
Students gain essential work experience on a 12 week industry placement in the final year of the course.

Approaches to student teaching and assessment
The programme uses a varied approach to teaching encompassing classroom and online teaching approaches combined with practical experience through exercise science laboratories, sports facilities and work experience. Assessment approaches utilise individual continuous assessment and examination; group work and performance practicals.

Follow on Study
Opportunities exist within the Department of Sport and Exercise Science for post graduate study through either taught Masters programmes or research degrees at Masters and Doctoral level.

Course Aims
This programme builds upon the knowledge and skills you have acquired through the successful completion of the common entry programme in Exercise Science. It will provide you with a deeper understanding and practical skills in the scientific areas of physiology, biomechanics and psychology in order to maximise sports performance and improve general health and wellbeing through exercise.

Career Opportunities
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- Sport Scientist (Exercise physiologist, Biomechanist)
- Strength and conditioning specialist
- Performance Analyst
- Sports psychologist
- Sport and Exercise Rehabilitation
- Sport and Exercise Nutritionist
- Personal Trainer
- Sports Development Officer

Work Placement
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Follow on Study
Opportunities exist within the Department of Sport and Exercise Science for post graduate study through either taught Masters programmes or research degrees at Masters and Doctoral level.
Course Aims
This programme builds upon the knowledge and skills you have acquired through the successful completion of the common entry programme in Exercise Science. It will provide you with a deeper understanding of the relationship between the key elements of nutrition science with the graduate being able to provide dietary advice to optimise health, sports performance, assist in weight management and recovery from injury. It explores such areas as nutritional and anthropometric assessment, with the goal of being able to provide a sport specific/tailor made, nutritional plan.

Career Opportunities
- Weight management consultant
- Sport and Exercise nutritionist/consultant
- Nutritionist
- Sport Scientist (Exercise physiologist)
- Personal Trainer
- Researcher in Sport Nutrition Industry

Work Placement
A 12 week placement takes place in Semester 7 of year 4 in each specialist pathway.

Approaches to student teaching and assessment
The programme uses a blended approach to teaching encompassing classroom and online teaching approaches combined with practical experience through exercise science laboratories, sports facilities and work experience. Assessment approaches utilise individual continuous assessment and examination; group work and performance practicals.

Follow on Study
Opportunities exist within the Department of Sport and Exercise Science for postgraduate study through either taught Masters programmes or research degrees at Masters and Doctoral level.
Course Aims
This course combines the discipline areas of physiology, psychology, biomechanics, fitness, nutrition and physical activity. It aims to give students the knowledge and practical skills to improve health and wellbeing in all population groups through exercise.

Career Opportunities
- Weight Management Consultant
- Exercise for Health Specialist
- Sports Development Officer
- Physical activity promotion officer with local sports partnerships, the HSE, community groups and youth services
- Active travel officer with local authorities
- Adapted Physical Activity specialist
- Sport Scientist (Exercise physiologist)
- Cardiac Rehabilitation
- Exercise Rehabilitation
- Personal trainer

Work Placement
Students gain essential work experience on a 12 week industry placement in the final year of the course.

Approaches to student teaching and assessment
The programme uses a varied approach to teaching encompassing classroom and online teaching approaches combined with practical experience through exercise science laboratories, sports facilities and work experience. Assessment approaches utilise individual continuous assessment and examination; group work and performance practicals.

Follow on Study
Opportunities exist within the Department of Sport and Exercise Science for post graduate study through either taught Masters programmes or research degrees at Masters and Doctoral level.

YEAR THREE
COURSE LEADER
Dr Barry Lambe
BA, BSc, MSc, MA, PhD
Email: blambe@wit.ie
Tel: 051 302158

DURATION
4 years

ENTRY ROUTE
Common Entry: WD006
Bachelor of Science (Hons) in Exercise Science

YEAR FOUR
DEGREE OPTION
FROM WD006
wit.ie/wd006ESH

LEVEL
8

Year One
Semester One
Fitness and Movement
Functional Anatomy & Kinesiology
Promoting Physical Activity
Research & Learning
Human Physiology
Introduction to Sport Psychology

Semester Two
Sport & Exercise Biomechanics 1
Introduction to Exercise Psychology
Biochemistry & Cell Physiology
Strength & Conditioning
Data & Measurement
Business for Exercise Professional

Year Two
Semester Three
Exercise Prescription for Program Design 1
Motivational Interviewing
Nutrition 1
Physical Activity Interventions
Sport Psychology and Skill Acquisition
Teaching for Exercise Professional

Semester Four
Exercise Physiology
Research Methods & Statistics
Nutrition 2
Group Fitness Instruction
Exercise Prescription for Programme Design 2
Positive Psychology

Year Three
Semester Five
Physical Activity Assessment and Evaluation
Child and Youth Physical Activity
Applied Sport and Exercise Physiology
Weight Management
Pathophysiology of Disease

Semester Six
Major Project 1
Adapted Physical Activity
Exercise Psychology in Practice
Exercise as Medicine 1
Physical Activity, Sport & Development
Nutrition for the Life Cycle
Sport Medicine

Semester Seven
Placement

Semester Eight
Major Project II
Exercise as Medicine 2
Advanced Sport & Exercise Physiology
Active Ageing
Professional Practice and Social Media

Course outline is subject to change.
Course Aims
The BSc (Hons) in Sports Coaching and Performance is a four year honours degree course that provides aspiring coaches from a variety of sporting backgrounds with an advanced coach education. The programme combines the disciplines of coach education and development with sports science, applying theory to practice in different performance environments. A unique feature of the degree is a one year internship in a medium to high sports environment, providing students with invaluable applied experience.

Course Structure
- **Coach Education** modules address the key characteristics of successful coaching and talent identification
- **Sports Science** modules provide students with the knowledge to understand the scientific basis of sports performance and the practical skills to undertake coaching-relevant assessments
- **Strength and Conditioning** modules enable students to plan and implement programmes for individuals and teams. Age-specific strength and conditioning is a key consideration.
- **Sport in Society** modules place sport and coaching within a wider societal context
- **Performance Analysis** modules provide students with practical skills to undertake analysis in a performance setting

Career Opportunities
- Coaching
- Strength and Conditioning Specialists
- Performance Analysts
- Applied Sport Scientist

Unique Features
- The sports-specific education is delivered and academic credit is given to students for completion of National Governing Body awards and progress though the coach development pathway.
- The programme is designed specifically to develop coaching skills, abilities and perspectives to enable the coach to pursue career pathways in coaching.
- Additional points can be awarded to individuals with outstanding sporting achievement.
- A year long sports coaching and performance internship is undertaken in the third year of the programme. This distinctive feature offers students the opportunity to develop real world high level experience prior to graduating.
- Sports science foundation modules are a key component of years 1 and 2 while in year 4, students study the science of elite performance in specific sports, e.g. science of soccer. Such a focus on the science of performance in individual sports is not the norm on other sports science programmes.

Follow on Study
Students are progressing on to further study in the areas of Sports Coaching, Sports Psychology, Sports Science, Sports Performance and Strength and Conditioning.

Students will also have the knowledge and skills necessary to undertake advanced coaching awards to international standards in their specialist sports in the years following graduation.

**STUDENT VIEW**

* "The college has a great Sport & Exercise department which really enticed me. When I first read about Sports Coaching & Performance it just seemed like the perfect mixture. I would be studying sports science while also learning how to share this information practically as a coach. The practical experience is invaluable. The amount of times I have turned to the staff for help, and I have never been turned away."*

Lauren Gourlay
**BACHELOR OF BUSINESS IN RECREATION & SPORT MANAGEMENT**

**ENTRY REQUIREMENTS**
- 5 subjects: O6/H7
- English or Irish: O6/H7
- Mathematics: O6/H7

**RESERVED PLACES**
Applicants who apply to the CAO by 1 February and who have achieved excellence in their chosen sport or coaching at the highest levels may qualify for a reserved place. More info: www.wit.ie/admissionspolicies

**DURATION**
3 years

**POINTS 2018**
Min: 180
Range: 180 - 589

**COURSE LEADER**
Laura Finnegan
Email: lfinnegan@wit.ie

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**Course Aims**
The Bachelor of Business in Recreation and Sport Management is a three year degree course which provides students with the necessary knowledge and skills to work in the wider sport, leisure and business industries. The course is based on three pillars of sport studies, recreation and leisure and business management.

Students who successfully complete this programme can progress onto the one year, level 8 Bachelor of Business (Hons) in Recreation and Sport Management (WD212).

**Unique Features**
- **Bachelor of Business**: This qualification provides graduates with a business degree which furthers employment options into a wider array of fields.
- **Work placement**: Students complete 14 weeks of work placement in year two of the course. This provides vital real-world experience for students in their chosen area of interest whilst also expanding their skill and knowledge base. Placements can include leisure centres, national governing bodies (e.g. FAI, GAA, IRFU), local sports partnerships and national organisations (e.g. Special Olympics, Paralympics Ireland). Opportunities for placements abroad are available.
- **Practical features**: Students complete four hours of practical sports skills per semester in years one and two. This enables students to gain the basic skills of a number of sports for the purposes of leading youth groups in a variety of sporting activity contexts. Other modules with practical components include event management, outdoor recreation and adapted physical activity. The practical fitness instruction stream allows students to gain professional qualifications in gym and group fitness instruction. **Electives**: After placement in year two, students choose electives for year three. This allows students to progress onto modules that suit their career objectives (e.g. coaching, event management, adapted physical activity).

**Career Opportunities**
- Sports development
- National governing bodies of sport
- Local sports partnerships
- Coaching
- Leisure centre management
- Fitness instruction
- Business setting (e.g. sports marketing, public relations, event management)

**Follow on Study**
Students can progress into Year 4 of the Bachelor of Business (Hons) in Recreation and Sport Management (WD212).

**Professional Accreditation**
The practical fitness instruction modules meet the standards required by REPS Ireland for entry to the Fitness Instructor and Group Fitness Instructor category on the Irish Register for Exercise Professionals (REPS). Membership of REPS Ireland qualifies students to work in the fitness industry in Ireland and abroad.

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**COURSE OUTLINE**

**YEAR ONE**

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<th>SEMESTER THREE</th>
<th>SEMESTER FOUR</th>
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<td>IT Applications</td>
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<td>Services Marketing Practice</td>
<td>Project Management in Recreation and Sport</td>
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<td><strong>SEMESTER THREE</strong></td>
<td>Event Management</td>
<td>Facility Operations</td>
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<td>Sport and Exercise Psychology</td>
<td>Sport and Event Tourism</td>
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<td><strong>SEMESTER THREE</strong></td>
<td><strong>SEMESTER FOUR</strong></td>
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</tbody>
</table>

**YEAR TWO**

**SEMESTER THREE**
- Sports Law
- Services Marketing Practice
- Accounting and Financial Information
- Strength and Conditioning
- Event Management
- Sport and Exercise Psychology

**SEMESTER FOUR**
- IT Applications
- Project Management in Recreation and Sport
- Economics
- Exercise Programming
- Facility Operations
- Sport and Event Tourism

**YEAR THREE**

**SEMESTER FIVE**
- Enterprise and Entrepreneurship
- Financial Decision Making
- Research Methods and Statistical Analysis
- Recreation and Social Interventions
- Adapted Physical Activity
- Group Fitness Instruction
- Sports Coaching
- Outdoor Recreation
- Teaching and Assessment Methodologies for Aquatics

**SEMESTER SIX**
- Placement
- Independent Learning

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**STUDENT VIEW**

“The course offers great work placement, coaching certificates and subject choices that increase job opportunities when graduated. I had the opportunity to work with some great organisations such as Waterford GAA, FAI, Charlton Athletic and went on many field trips varying from the Burren, Co. Clare to Tanzania.”

Liam O’Hara

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Image: Liam (No.6 green jersey in front row) with his team mates at the match against the Masai tribe on their trip to Tanzania.
Course Aims
This is a four year honours degree which provides students with the necessary knowledge and skills to work in the wider sport, leisure and business industries. The course is based on three pillars of sport studies, recreation and leisure and business management.

Unique Features
- **Bachelor of Business**: This qualification provides graduates with a business degree which extends employment options into a wider array of fields.
- **Work placement**: Students complete a semester of work placement in year three of the course. This provides vital real-world experience for students in their chosen area of interest whilst also expanding their knowledge and skill base. Placements can include leisure centres, national governing bodies (e.g. FAI, GAA, IRFU), local sports partnerships and national organisations (e.g. Special Olympics, Paralympics Ireland). Opportunities for placements abroad are also available.
- **Industry engagement**: Being industry ready is a key philosophy of the programme. Guest lectures are a core part of learning in many modules. In 2nd year, students have a class free day where they will visit both local and national sport, recreation and leisure facilities throughout the semester.
- **Practical components**: There is a number of modules in the course with a practical emphasis. In sports pedagogy for example, students gain the basic skills of a number of sports for the purposes of leading youth groups in a variety of sporting activity contexts. Other modules with practical components include event management, outdoor recreation, adapted physical activity and social media and digital professionalism. The practical fitness instruction stream allows students to gain professional qualifications in gym and group fitness instruction. Students can also gain first aid, lifeguard, swim teaching and various coaching qualifications.
- **Electives**: Students have a wide array of electives to choose from. These electives allow students to progress onto modules that suit their career objectives.
- **Research specialism**: Students complete a research project in the final two semesters of the programme. This allows students to conduct specialist research in a niche area of their choosing. This can be done in conjunction with industry to further enhance career opportunities.

Career Opportunities
- **Sports development**
- **National governing bodies of sport**
- **Local sports partnerships**
- **Sports management**
- **Sports coaching**
- **Business industry positions (e.g. sports marketing, public relations, digital marketing)**
- **Specialist positions in the leisure industry**
- **Coaching and athlete support**

Follow on Study
Student can progress on to the MSc in Applied Sport and Exercise Psychology. Postgraduate research opportunities are also available.

Course outline is subject to change.

**STUDENT VIEW**

“While my primary interest in college was the sporting elements of the course, the business elements ensured I had requisite skills to support the business component of running a major sporting organisation. While my sporting and coaching knowledge were essential in my previous role as Performance Director, it is the business elements that I am particularly reliant on in my current CEO role.”

**Liam Harbison, Director of Sport Ireland Institute**
DEPARTMENT OF APPLIED ARTS
Head: Michael Bergin, BSc (Hons), MMedSc, PhD
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WD163 BA (Hons) in Psychology 68
WD187 BA (Hons) in Social Science 69
WD192 BA (Hons) in Social Care Practice 70
WD149 BA (Hons) in Early Childhood Studies 71
WD018 BA in Applied Social Studies in Social Care 72
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Head: Marian O’Neill, LLB, LLM, DipLP, FCIB
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HEAD OF SCHOOL
Suzanne Denieffe, BNS, MSc, PhD

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demail: cfurlong@wit.ie
General Contact:
dhumanities@wit.ie

Disclaimer:
All course titles and information listed are subject to change.
We are constantly improving our portfolio of courses.
See www.wit.ie for the most up to date information.
## HUMANITIES AT WIT

### DEPARTMENT OF APPLIED ARTS

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### DEPARTMENT OF LANGUAGES, TOURISM & HOSPITALITY STUDIES

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4</th>
<th>POSTGRAD</th>
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</thead>
<tbody>
<tr>
<td>BA (Hons) in Hospitality Management</td>
<td>Higher Certificate in Arts in Hospitality Studies</td>
<td>Transfer year 2/3</td>
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<tr>
<td>BA (Hons) in Hospitality Management</td>
<td>Higher Certificate in Arts in Hospitality Studies</td>
<td>Transfer year 2/3</td>
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<tr>
<td>BA (Hons) in Tourism Marketing</td>
<td>Higher Certificate in Business in Tourism Marketing</td>
<td>Transfer year 2/3</td>
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<tr>
<td>BA (Hons) in Culinary Arts</td>
<td>Higher Certificate in Arts in Culinary Arts</td>
<td>Transfer year 2/3</td>
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### DEPARTMENT OF CREATIVE & PERFORMING ARTS

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<thead>
<tr>
<th>YEAR 1</th>
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<th>POSTGRAD</th>
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<tbody>
<tr>
<td>BA (Hons) in Music</td>
<td>BA (Hons) in Visual Arts</td>
<td>BA (Hons) in Design (Visual Communications)</td>
<td>Transfer year 2/3</td>
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</tbody>
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Advanced Entry: Students who have completed all or part of a third level qualification may be eligible for entry into years other than year 1 of our courses. See [www.wit.ie/advancedentry](http://www.wit.ie/advancedentry)
BACHELOR OF
ARTS (HONS)

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

OTHER REQUIREMENTS
It is recommended that applicants choosing Post Leaving Certificate French, German or Irish have a H5 in that language. For those starting a language as a beginner (ab initio) there are no special requirements.

POINTS 2018
Min: 220
Range: 220 - 601

DURATION
3 years

OTHER REQUIREMENTS
It is recommended that applicants choosing Post Leaving Certificate French, German or Irish have a H5 in that language. For those starting a language as a beginner (ab initio) there are no special requirements.

Course Aims
Studying on the Bachelor of Arts (Hons), you will be able to choose from a wide range of Humanities and Social Science subjects on an honour degree course that is comparable to Arts degrees both nationally and worldwide.

You will be encouraged to see the world anew through the study of subjects such as English Literature, Sociology, Irish and other Modern European Languages, Religious Studies, Psychology and others.

Over a three year period, you will develop expertise in two subject areas as well as developing a questioning and creative approach to the modern world.

The course encourages your creativity, enterprise and ethical and social awareness, as well as giving you the opportunity to demonstrate and develop your leadership potential.

The flexibility of mind formed in Liberal Arts students is highly valued by employers and the Arts degree at WIT opens many future opportunities to graduates.

Subjects
- The Arts degree is an interdisciplinary course with a specialism in one major subject. You also study a second minor subject.
- In Year 1, you can choose one major and two minors.
- In Years 2 & 3, you continue to study your chosen major and one of your chosen minors.
- Subjects are organised into four groups (1 to 4) and you can choose a maximum of one subject from any group.

International Study
Some students choose to spend an extra year at a partner university or third level college overseas before returning to complete their final year at WIT. Students who take this option graduate with a Bachelor of Arts (Hons) International.

Unique Feature: The Interdisciplinary Seminar
As part of your studies, you will undertake interdisciplinary seminars that combine your chosen major and minor subjects.

These seminars will help you draw connections between differing ideas, concepts, theories, assumptions, instruments, media, practices, histories and mindsets, which is not only intellectually challenging, but profoundly useful in the practical sense.

‘Real world’ problems are nearly always multifaceted and interconnected and one needs to develop a mind that is well equipped with knowledge, cognitive skills and the ability to see the bigger picture.

Follow on Study
Graduates can proceed to a Masters degree by Research in their chosen Major discipline at WIT or elsewhere, as well as various other taught Graduate Diploma and Masters programmes.

STUDENT VIEW
“...When I discovered the theatre course, and rediscovered my passion for theatre - I changed my major subject to theatre and minor to English. Our practical theatre classes allow for the exploration of different performance styles and theories of drama, with each lecturer and student bringing a different quality to the table. In Waterford I’ve worked and acted with the likes of ‘Loose Screw Theatre Company’, ‘Jim Nolan’, ‘Theatre Royal’, and I’ve created my own independent shows also.”

Natasha Everitt
**BACHELOR OF ARTS (HONS) - Subject Options**

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### START

**CHOOSE 1 MAJOR SUBJECT***

<table>
<thead>
<tr>
<th>GROUP 1</th>
<th>GROUP 2</th>
<th>GROUP 3</th>
<th>GROUP 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG - ENGLISH</td>
<td>FRH - FRENCH (POST LEAVING CERT)</td>
<td>SOC - SOCIOLOGY</td>
<td></td>
</tr>
<tr>
<td>SPH - SPANISH (BEGINNERS)</td>
<td>RES - RELIGIOUS STUDIES</td>
<td>IRH - IRISH (POST LEAVING CERT)</td>
<td>THS - THEATRE STUDIES</td>
</tr>
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### YEAR 1

**CHOOSE 2 MINOR SUBJECTS***

<table>
<thead>
<tr>
<th>GROUP 1</th>
<th>GROUP 2</th>
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<th>GROUP 4</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td>RELIGIOUS STUDIES</td>
<td>SOCIETY</td>
<td>PSYCHOLOGY</td>
</tr>
<tr>
<td>SPANISH (BEGINNERS)</td>
<td>LAW</td>
<td>IRISH (POST LEAVING CERT)</td>
<td>ECONOMICS</td>
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<tr>
<td></td>
<td>FRENCH (POST LEAVING CERT)</td>
<td>GERMAN (POST LEAVING CERT)</td>
<td>THEATRE STUDIES</td>
</tr>
<tr>
<td></td>
<td>ITALIAN (BEGINNERS)</td>
<td>GERMAN (BEGINNERS)</td>
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### YEARS 2 & 3

**DEVELOP YOUR EXPERTISE**

**CONTINUE TO STUDY YOUR CHOSEN MAJOR AND 1 OF YOUR CHOSEN MINORS**

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### GRADUATE WITH A BACHELOR OF ARTS (HONS)

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### CAREER OPPORTUNITIES

The adaptability, flexibility and mental agility of Arts graduates, as well as their strong skills in communication and problem-solving, make them very desirable employees in many professions and industries, in Ireland and overseas.

**Education**
- Primary & secondary teaching
- Research
- Lecturer
- Policy & administration

**Business & Law**
- Consultancy
- Solicitor
- Barrister
- Marketing & advertising
- Project management

**Media**
- Journalism
- Writing
- Publishing
- Broadcast media
- Film making

**Governance**
- Diplomacy & foreign affairs
- Civil servant
- Public servant
- Policy development

**Theatre & Arts**
- Theatre/arts management
- Theatre practitioner (director/actor/technician)

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### BACHELOR OF ARTS (HONS) INTERNATIONAL

You can choose to spend an extra year (Year 3) in an international partner university. Students who take this option will graduate after four years with a Bachelor of Arts (Hons) International. Partners include universities in the US, Canada and across Europe.

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*Students study one Major and two Minor subjects in Year 1. No two subjects (Major or Minor) can be chosen from the same group.*
## Bachelor of Arts (Hons) in Psychology

### Entry Requirements
- 2 subjects: H5
- 4 subjects: O6/H7
- English or Irish: O6/H7
- Mathematics: O4/H7

### Other Requirements
- It is recommended that applicants choosing Post Leaving Certificate French, German or Irish have a H5 in that language. For those starting a language as a beginner (ab initio) there are no special requirements.

### Points 2018
- Min: 390
- Range: 390 - 511

### Duration
- 3 years

### Other Requirements
- It is recommended that applicants choosing Post Leaving Certificate French, German or Irish have a H5 in that language. For those starting a language as a beginner (ab initio) there are no special requirements.

### Course Aims
This interdisciplinary three year degree course in Psychology offers students the opportunity to follow a major course in Psychology alongside minor study in an associated Humanities discipline. Psychology is the scientific study of behavior and mental processes. As such, the mission of the BA (Hons) in Psychology is to help students learn to think like psychologists. To achieve this goal, students generate and evaluate empirical evidence while considering theoretical perspectives on the discipline. Students actively engage with a rigorous academic programme that includes comprehensive coursework and student research. The structure and content of the degree will provide students with a comprehensive understanding of human behaviour for a dynamic and fast changing world. Students who undertake the BA (Hons) in Psychology will have to be capable of studying across a wide range of disciplines, including Statistics.

### Career Opportunities
This course develops multi-skilled individuals with a wide range of transferable skills and provides industry with graduates who are capable of strategically managing all aspects of their environment. A graduate of the BA (Hons) in Psychology will be an enthusiastic and confident practitioner, comfortable with their ability to learn, and able to adapt to an ever-changing society. They will be ready to embark on a challenging and rewarding career in a variety of differing employment positions.

### Follow on Study
Masters degrees by Research at WIT or elsewhere as well as various other taught postgraduate programmes.

### Arts Subjects
Students will study Psychology as their Major Subject in Year 1 in addition to taking two Minor Subjects from associated Humanities disciplines. These Minor Subjects must be chosen from Groups 1, 2 or 3 of the Bachelor of Arts (Hons) course, but not more than one subject can be taken from each group. Please see [www.wit.ie/WD200](http://www.wit.ie/WD200) for details.

On successful completion of year one, students will continue with their Major Subject, Psychology, and choose one of their two Minor Subjects to study in years two and three of the course.

### BA (Hons) International in Psychology
The BA (Hons) International in Psychology is a four-year version of the BA (Hons) in Psychology course. Admission takes place in second year and students spend their third year studying at an approved partner university or third level institution abroad, before returning to complete their final year at WIT.

### Course Outline

#### Year One

##### Semester One
- Introduction to Psychology
- History of Psychology
- Introduction to Statistical Analysis & Design
- Critical and Creative Thinking
- Minor Subject 1 Module 1
- Minor Subject 2 Module 1

##### Semester Two
- Introduction to Biological Psychology
- Developmental Psychology
- Introduction to Cognition & Perception
- Introduction to Research Methods
- Minor Subject 1 Module 2
- Minor Subject 2 Module 2

#### Year Two

##### Semester Three
- Advanced Cognitive Psychology
- Individual Differences
- Intermediate Statistical Analysis & Design
- Applied Research Methods
- Minor Subject Module 3
- Minor Subject Module 4

##### Semester Four
- Abnormal Psychology
- Introduction to Social Psychology
- Advanced Statistical Analysis & Design
- Psychology Laboratories
- Minor Subject Module 5
- Minor Subject Module 6

#### Year Three

##### Semester Five
- Advanced Social Psychology
- Psychology & Crime
- Clinical & Experimental Neuropsychology and Dissertation
- Psychology 1
- Minor Subject Module 7
- Minor Subject Module 8

##### Semester Six
- Counselling Psychology
- Organisational Psychology
- Health Psychology & Dissertation
- Psychology 2
- Minor Subject Module 9
- Minor Subject Module 10

### Student View

*I wanted to study Psychology because the study of mind and behaviour really interested me. I chose WIT because it was close to home and it is known as the best IT in Ireland. I felt that the lecturers were very supportive and my classmates were great. Psychology at WIT has a lot of scope with regard to postgraduate opportunities, I am currently doing a Master of Science in Work & Organisational Psychology.*

Rohan Khan
Course Aims
The BA (Hons) in Social Science is a multi-disciplinary three-year course. In times of rapid social and economic change, this programme offers students the opportunity to understand and critically analyse contemporary Irish society and Ireland’s place in an increasingly globalised world. This course draws on core Social Science disciplines such as Social Policy, Sociology, Psychology, Economics and Politics, with an emphasis on Social Research and Social Studies in Context. The implications of and responses to social problems for marginalised and vulnerable members of society are central to this programme.

Career Opportunities
The BA (Hons) in Social Science offers graduates a wide variety of career opportunities such as Social Research, Policy Analysis, Human Resources, Administration and Social Work in Government and Non-governmental agencies. Some career options require further postgraduate qualifications and this programme provides an ideal pathway into a range of postgraduate options.

Follow on Study
Graduates may proceed to postgraduate study, either research or taught, at WIT or other third-level colleges.

Special Features
Students are offered an opportunity to take elective modules in Semesters, 3, 4, 5 and 6. Students may elect from a wide range of modules such as Human Resource Management, Personal & Professional Development, Social Care, Psychology & Crime, Probation and Youth Work and Law.

The programme is structured to provide students with the opportunity to gain a solid academic foundation in a range of related disciplines. The programme is also structured to enable students to develop their critical understanding of the applied nature of social science, and the importance of social research in critical inquiry and analysis of contemporary society.

The programme emphasises the importance of inter-disciplinarity. These pillars of learning (theory, application, research and integration) are the focus of this programme.

Follow on Study
Graduates may proceed to postgraduate study, either research or taught, at WIT or other third-level colleges.

Course Outline

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<tr>
<th>YEAR ONE</th>
<th>SEMESTER ONE</th>
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<tbody>
<tr>
<td>Introduction to Psychology</td>
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<td>Social Policy and Welfare</td>
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<tr>
<td>Introduction to Sociological Problems</td>
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<td>Critical and Creative Thinking</td>
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<td>Principles of Microeconomics</td>
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<td>Introduction to Politics</td>
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<th>SEMESTER TWO</th>
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<tr>
<td>Introduction to Social Psychology</td>
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<tr>
<td>Irish Social Policy</td>
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<tr>
<td>Sociology of Contemporary Ireland</td>
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<tr>
<td>The Development of the Irish Welfare State</td>
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<tr>
<td>Principles of Macroeconomics</td>
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<td>Introduction to Research</td>
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<tr>
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<th>SEMESTER THREE</th>
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<td>Social Research Methods</td>
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<td>Foundations of Ethics/Philosophy</td>
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<td>Social Policy Processes</td>
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<td>Class and Social Mobility in Irish Society</td>
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<td>Economic Policy Issues</td>
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<th>SEMESTER FOUR</th>
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<tr>
<td>Sociology of Gender</td>
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<td>Social Ethics</td>
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<tr>
<td>Understanding Sociological Perspectives</td>
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<td>Social Policy and Ideology</td>
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<td>Developmental Psychology</td>
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<tr>
<th>YEAR THREE</th>
<th>SEMESTER FIVE</th>
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<tbody>
<tr>
<td>Social Studies in Context 1</td>
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<tr>
<td>Dissertation Proposal: Social Science</td>
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<tr>
<td>Irish Politics and Government</td>
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<td>EU and Globalisation</td>
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<td>Ireland and Ethnic Minorities</td>
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<td>Elective Module</td>
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<tr>
<th>SEMESTER SIX</th>
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<tbody>
<tr>
<td>Dissertation: Social Science</td>
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<tr>
<td>Modern Social Theory</td>
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<tr>
<td>Social Studies in Context 2</td>
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<tr>
<td>Comparing Social Policies</td>
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<tr>
<td>Elective Module</td>
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Student View
“I chose the Social Science course at WIT as it offered a wide range of contemporary modules and provided a multidisciplinary base to work from. Whilst being interested in the provision of education and criminal reform, I wanted to take a more strategic view rather than head into social care work. I loved Social Policy and Sociology. Our social policy lecturer was the same for the three years and this was great and really helped develop our academic skills. I was fortunate to be awarded the John Moore award and this meant a lot to me as it was recognition from my fellow students regarding the non-academic support I had from them.”

Sue Goona
BACHELOR OF ARTS (HONS) IN

SOCIAL CARE PRACTICE

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7

OTHER REQUIREMENTS
Places are offered on the programme subject to satisfactory Garda Vetting clearance.

DURATION
4 years

POINTS 2018
Min: 280
Range: 280 - 445

COURSE LEADER
Hazel Finlay
Email: hfinlay@wit.ie

Course Aims
This is a four year level 8 course of study designed to prepare students for professional careers in Social Care Work and facilitate students who wish to pursue a specific area of interest. The overall aim of the course is to develop critically reflective, skilled and ethically aware professional Social Care workers. The course involves the study of related disciplines of Applied Social Studies, Professional Practice, Sociology, Social Policy, Psychology and Law.

Career Opportunities
Graduates may take up employment by the state sector and in community-based organisations. Social care workers may work with:
- Children and adolescents in residential care
- People with learning or physical disabilities
- People who are homeless
- People with alcohol/drug dependency
- Families in the community
- Older people
- Recent immigrants to Ireland; and others

Follow on Study
Graduates can proceed to the MA in Social Studies and Masters by Research at WIT as well as Masters in Social Work and other similar courses.

Special Feature
The course is designed to develop students as professionally qualified workers for a range of social care employment opportunities. Placement in Semesters 3 & 6 consists of 35 hours per week for 12 weeks, supervised social care practice.

Fitness to Study/Fitness to Practice
Students undertaking the BA [Hons] in Social Care Practice must meet the requirements of the Institute’s Fitness to Study and Fitness to Practice Policy.

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
Introduction to Psychology
Social Policy and Welfare
Introduction to Sociological Problems
Critical and Creative Thinking
Applied Creativity 1:
- Applied Social Studies in Context 1
- Creative Interventions 1
Personal & Professional Development: Social Care 1

SEMESTER TWO
Social Care Law
Developmental Psychology
Irish Social Policy
Understanding Sociological Perspectives
Applied Creativity 2:
- Applied Social Studies in Context 2
- Creative Interventions 2
Personal & Professional Development: Social Care 2

YEAR TWO

SEMESTER THREE
Practice Placement: Social Care 1
Practice Placement Portfolio: Social Care 1
Applied Social Studies in Context 3

YEAR THREE

SEMESTER FOUR
Child Protection Law
Introduction to Research
Sociology of Contemporary Ireland
Abnormal Psychology
Applied Social Studies in Context 4
Personal and Professional Development: Social Care 3

SEMESTER FIVE
Status, Capacity and Consent in Irish Law
Introduction to Social Psychology
Children’s Rights and Social Policy
Foundation of Ethics
Applied Social Research
Personal and Professional Development:
Social Care 4

SEMESTER SIX
Practice Placement: Social Care 2
Practice Placement Portfolio:
Social Care 2
Applied Social Studies in Context 5

YEAR FOUR

SEMESTER SEVEN
Social Care Management and Practice 1
Applied Research Project 1
Social Policy Processes
Law for Social Care Professionals 1
Introduction to Therapeutic Interventions
Narrative Approaches to Social Care Practice

SEMESTER EIGHT
Social Care Management and Practice 2
Applied Research Project 2
Comparing Social Policies
Law for Social Care Professionals 2
Utilising and Applying Therapeutic Interventions
Systemic Approaches to Social Care Practice

STUDENT VIEW

“Coming to WIT to study Social Care Practice has been one of the best decisions of my life. The friendly atmosphere and the fantastic social aspect in WIT have made it easy for me to make friends for life. I found the classes extremely interesting and enjoyable. The lecturers are very understanding and supported us every step of the way especially on work placement.”

Darren Malone
Course Aims
The BA (Hons) in Early Childhood Studies is a three year course of study. The course is designed under four important academic foundations namely, theory, practice, research and reflective integration.

Early Childhood Studies is aimed at producing professionally qualified graduates who can work in a range of early years’ contexts, working with children up to the age of eight in both care and education settings. The course involves the study of related disciplines of early years’ care, education, psychology, sociology, law and personal and professional development and supervised professional early years, practice placements.

Career Opportunities
This course aims to facilitate students who wish to pursue professional careers in Early Childhood Studies contexts, and postgraduate studies in Early Childhood Studies and related disciplines.
- Early Years Childcare
- Early Years Education
- Children’s Residential Care Centres
- Health Services Executive, Family Support
- Children with special learning needs
- Private work in the child care sector

Follow on Study
Graduates may proceed to postgraduate study, either research or taught, at WIT or other third-level Colleges.

Special Feature
Students have the opportunity to complete supervised work-based placements, in years 2 and 3 of the course. These opportunities allow students gain valuable experience and skills in areas of care or education or both. These placement experiences will facilitate the students’ application of knowledge from the disciplines studied to professional practice. Students will conclude their third year with a written thesis which allows them focus on a specific area of interest to them in relation to early years’ care and education.

STUDENT VIEW
“There are bundles of opportunities follow Early Childhood Studies at WIT as the course is quite broad and there are so many career paths to choose from. Placements in both 2nd and 3rd year were extremely helpful in deciding the area I wanted to work in. There is a friendly atmosphere around campus, the lecturers do all they can to support each student and are willing to meet you personally for anything you need help with.”
Kate O’Brien
BACHELOR OF ARTS IN
APPLIED SOCIAL STUDIES
IN SOCIAL CARE

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7

OTHER REQUIREMENTS
Places are offered on the programme subject to satisfactory Garda Vetting clearance.

DURATION
3 years

POINTS 2018
Min: 188
Range: 188 - 534

COURSE LEADER
Jane McGrath
Email: jmcgrath@wit.ie

Course Aims
The BA in Applied Social Studies in Social Care is a three year (level 7) course of study. The course is designed to facilitate students who wish to pursue a specific area of interest and prepares students for professional careers in Social Care Work.

The course involves the study of related disciplines of Sociology, Social Policy, Psychology, Law, Applied Social Research and Supervised Professional Practice.

Career Opportunities
Graduates may take up employment in the state sector and in community-based organisations. Social care workers may work with:
- Children and adolescents in residential care
- People with learning or physical disabilities
- People who are homeless
- People with alcohol/drug dependency
- Families in the community
- Older people
- Recent immigrants to Ireland

Follow on Study
BA (Hons) Applied Social Studies in Social Care - WD052 (one year add-on course)

Special Feature
The course is designed to facilitate students to specialise as Social Care Workers. All students who wish to graduate as professionally qualified social care workers must successfully complete a supervised work-based placement in each of the second and third years of the course.

STUDENT VIEW
“I made the life changing decision to come back to study at WIT as a mature student. Deciding to come back to college was a nerve wrecking thought to say the least, but the attitude and help from the lecturers made the transition from full time work to full time education an easy transition. I loved my course in Applied Social Studies in Social Care and loved my entire experience at WIT.”
Kelly McDermott

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
Key Themes in Sociology
Introduction to Social Policy
Psychology of Human Behaviour
Applied Social Studies 1
History of Social Care in 19th Century Ireland
Personal & Professional Development 1

SEMESTER TWO
Social Facts & Structures
Social Policy in Context
Introduction to Social Care Law
History of Social Care in 20th Century Ireland
Lifespan Developmental Psychology
Personal & Professional Development 2

YEAR TWO

SEMESTER THREE
Practice Placement 1
Practice Placement Portfolio 1
Applied Social Studies 2

SEMESTER FOUR
Inequalities and Disadvantage in Irish
Social Policy
Individual Differences & Abnormal Psychology
Modernisation & Social Change
Personal & Professional Development 3
Child in Irish law
Applied Social Studies 3

YEAR THREE

SEMESTER FIVE
Domestic Violence Law and Mental Health Law in Ireland
Challenges for Irish Social Policy
Class, Ideology and Social Movements
Social Psychology
Personal & Professional Development 4
Applied Social Studies 4

SEMESTER SIX
Practice Placement 2
Practice Placement Portfolio 2
Applied Social Studies 5
Course Aims
The Bachelor of Arts (Hons) in Applied Social Studies in Social Care (level 8) is a one year add-on course designed for graduates with a level 7 award who wish to further their Applied Social Studies education. It is a necessary qualification for those wishing to pursue postgraduate studies.

Follow on Study
Graduates may proceed to postgraduate study, either research or taught, at WIT or other third-level Colleges.

Course Outline
YEAR ONE

SEMESTER ONE
- Law for Social Care Professionals 1
- Systematic Approaches in Social Care Practice
- Introduction to Therapeutic Interventions
- Social Policy Processes
- Social Care Management & Professional Practice 1
- Applied Research Project 1

SEMESTER TWO
- Law for Social Care Professionals 2
- Narrative Approaches in Social Care Practice
- Utilising & Applying Therapeutic Interventions
- Comparing Social Policies
- Social Care Management & Professional Practice 2
- Applied Research Project 2

STUDENT VIEW

"The wide range of subjects impressed me so much, the lecturers were so helpful in all aspects and I enjoyed every year in WIT and I am delighted I chose WIT to do my Social Care degree. I have made so many friends through my course which was always encouraged by our lecturers in terms of class team building and bonding. I can easily say I have made friends for life and it is always great to look back on our time in WIT: study groups, class parties and the fun we had. I was involved with the Social Care society and acted as Chairperson. We organised many parties, talks, events, fundraisers and an end of year Ball.

During my time in WIT, I went on work placement in the first semester in second year and the second semester in third year. We got the feel of working in the real world and I knew then I had made the right decision with Social Care in WIT. I felt well equipped going on placement, in second year I did placement in a school for children with special needs as a classroom assistant and in third year I did placement in Foroige which is a youth organisation as a substitute youth worker. I enjoyed this so much and what I had learned in class I could really apply to the work I was doing.

I then went on to complete the honours degree. It's true what they say WIT is a world full of opportunities and I am so happy I got to experience so many of them."

Denise McCarthy
Course Aims
The LLB Bachelor of Laws (Hons) is a three year course of study. It is designed to provide a broad education that equips students with general knowledge, general transferable skills, legal knowledge and legal skills that can be applied in a range of sectors.

This course is accredited by the Board of the Honorable Society of King’s Inns.

Career Opportunities
Graduates of the LLB Bachelor of Laws (Hons) may find work in the following areas:
- Solicitor
- Lecturing
- Broadcasting
- Politics
- An Garda Síochána
- Banking
- Barrister
- Journalism
- Writing
- Business
- Insurance

Follow on Study
As well as the wide career choice available the graduate will be well placed to pursue further legal study including seeking entrance to and completing the professional courses offered at King’s Inns and the Law Society of Ireland.

Nolan Farrell & Goff - Merit Prize
Students on this programme are eligible for the Nolan, Farrell and Goff Merit Prize. This prize is awarded annually to the student achieving the highest result in Property Law on either the BA in Legal Studies or the LLB Bachelor of Laws (Hons).

Course Outline

YEAR ONE
- SEMESTER ONE
  - Critical & Creative Thinking
  - Information Technology Applications
  - Foundations of Irish Law
  - Contract Law 1
  - Law of Tort 1
  - Elective

- SEMESTER TWO
  - Introduction to Research
  - Irish Legal System
  - Contract Law 2
  - Law of Tort 2
  - Legal Research
  - Elective

YEAR TWO
- SEMESTER THREE
  - Criminal Law 1
  - Constitutional Law 1
  - Employment Law
  - European Union Law 1
  - Labour Law 1
  - Elective

- SEMESTER FOUR
  - Criminal Law 2
  - Constitutional Law 2
  - Land Law 2
  - European Union Law 2
  - Labour Law 2
  - Elective

YEAR THREE
- SEMESTER FIVE
  - Equity and Trusts 1
  - Jurisprudence 1
  - Criminal Evidence
  - Company Law 1
  - Elective
  - Elective

- SEMESTER SIX
  - Company Law 2
  - Equity and Trusts 2
  - Jurisprudence 2
  - Civil Evidence
  - Administrative Law
  - Elective

Electives are chosen from a selection of Law modules offered at the discretion of WIT.

Student View
“I chose WIT because it had the exact course I wanted when it came to making my decisions towards the end of my final school year. With a small class, we became like a family and every day was different and exciting. There was an excellent choice of legal subjects and the lecturers gave each interested individual all the help and support that could possibly have been given.”

Evan Ryan
BACHELOR OF ARTS (HONS) IN
CRIMINAL JUSTICE STUDIES

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
3 years

POINTS 2018
Min: 270
Range: 270 - 445

COURSE LEADER
Dr Geraldine Cleere
Email: gcleere@wit.ie

Course Aims
The BA (Hons) in Criminal Justice Studies is a three year degree course designed to equip the student with general knowledge and transferable skills while focusing on the broad theme of criminal justice. It is a multi-disciplinary course.

Career Opportunities would include
- The Probation Service
- The Security Industry
- The Civil Service
- An Garda Síochána
- The Prison Service
- Research
- Journalism
- Non-Governmental Organisations
- Banking

Follow on Study
Taught Masters programmes or Masters degrees by Research at WIT or other third-level Colleges.

Special Features
While this course is both inter-disciplinary and multi-disciplinary in order to help students develop general academic skills, it is designed with those in mind who would like to enter the criminal justice professions and seeks to cater for their specific educational requirements.

COURSE OUTLINE

YEAR ONE
SEMMETER ONE
Introduction to Sociological Problems
Introduction to Psychology
Critical & Creative Thinking
Irish State & EU Structures
Foundations of Irish Law
Introduction to Criminal Law

SEMMETER TWO
Introduction to Management
Introduction to Research
Introduction to Employment Law
Irish Legal System
Aspects of Family Law
The Sociology of Contemporary Ireland

YEAR TWO
SEMMETER THREE
Foundations of Ethics: Philosophical & Theological
Criminology 1
Irish Fundamental Rights
Incarceration & the Law
Victimology
Elective

SEMMETER FOUR
Social Ethics
Criminology 2
Human Rights Law
Legal Research
Policing & the Police
Elective

YEAR THREE
SEMMETER FIVE
Applied Criminal Law 1
Ethnicity & Criminal Justice
Organisational Psychology
Introduction to Personal & Professional Development
Theory of Criminal Evidence
Elective

SEMMETER SIX
Applied Criminal Law 2
Practical Management
Applied Criminal Evidence
Applied Forensics
Elective
Elective

Electives are chosen from a selection of Law modules offered at the discretion of WIT

STUDENT VIEW

“The best thing about this course here at Waterford Institute of Technology is the wide range of subjects covered. Never a dull moment! This course has been a massive eye-opener, everyone is so busy caught up in their own lives, people rarely take time to stop and think; why do we go to Church? Who is accountable for ensuring child protection and why do so many slip through the cracks? This course allows you to explore all these avenues and the lecturers are extremely helpful to us during the process.”

Sinead Heffernan
Course Aims
The study of law provides students with an education that is relevant to a wide range of employment opportunities because law regulates all aspects of life. Legal studies are not just for students who want to become solicitors or barristers.

Why the Higher Certificate in Arts in Legal Studies course may suit your needs?
This is a two year course that provides students with a foundational knowledge of a broad range of legal subjects and various legal and business related skills that can be utilised in a wide range of employment settings. The course may also suit students who do not have a specific career in mind because whatever career or educational path a student may ultimately pursue, law is relevant to all careers and industries.

Career Opportunities
- Solicitors’ or other business offices
- An Garda Síochána
- Civil Service
- Banks & Building Societies
- Insurance Companies and other regulated industries

Follow on Study
BA in Legal Studies - WD073
BA in Legal Studies in International Trade - WD033

STUDENT VIEW
“I chose my course as the subjects were broad and sounded very interesting. Law was always something that was of interest to me so this course was a great step to learning about the field of law. I chose to study in WIT as I knew from the open day that this was the college I wanted to study in. I have always loved Waterford city, ever since a young age. The people are very welcoming and there is a great sense of culture in the city.”

Lauren Hayde
Course Aims
This is a one year add-on course following on from a Higher Certificate in Legal or Business Studies or an equivalent minimum qualification. It is designed for those seeking to work in areas related to international trade, namely, export/import administration, marketing and financing, international carriage and insurance of goods.

Special Features
There are guest speakers from the industry and port visits.

Career Opportunities
Graduates may find employment as operations and administration staff in:
- Shipping companies
- Freight forwarding
- Insurance companies
- Banking sector
- Transport operator

Follow on Study
BA (Hons) in Legal Studies with Business - WD053

STUDENT VIEW
“I am working with Intel Corporation in Amsterdam. My first position was as a Buyer for the CPU boxing warehouse. I then moved on to be a Planner for the boxing warehouse, which entailed subcon management; engaging with geographical business organisations; sales and marketing organisations; capacity management and many other aspects of planning.

The coaching I received on giving presentations in WIT has aided my development within Intel. I would also like to thank the lecturers I had during my studies at WIT. Without their patience and extreme dedication I would not be where I am now.”

Elaine Griffin
Course Aims
This is a one year add-on course for students who wish to seek employment in areas where law plays a prominent role. Students can also proceed to honours degree level studies having attained the required standards in the degree examinations.

Career Opportunities
Graduates of the BA in Legal Studies have found work in the following areas:
- Solicitors’ Practices
- Legal Department of Business Organisations
- Auctioneers
- Property Management Sector

Follow on Study
BA (Hons) in Legal Studies with Business - WD053

Nolan, Farrell & Goff Merit Prize
Students on this programme are eligible for the Nolan, Farrell and Goff Merit Prize. This prize is awarded annually to the student achieving the highest result in Property Law on either the BA in Legal Studies or the LLB Bachelor of Laws.

STUDENT VIEW
"I met great people along the way in my fellow students and had the opportunity to get involved with the Law Society and ELSA, among the other clubs and societies. The support offered by lecturers throughout my years in WIT was above and beyond what I could have ever expected. They want to see you succeed, they wanted you to get the most out of yourself and they taught me that if you put the work in you will get the results."

Deirdre Walsh
Course Aims
The BA (Hons) in Legal Studies with Business is a one year add-on degree course which follows on from the BA in Legal Studies in International Trade, the BA in Legal Studies or equivalent.

This course is accredited by the Board of the Honourable Society of Kings Inns for students holding both the Higher Certificate in Arts in Legal Studies and the BA in Legal Studies.

Special Feature of the Programme
The interdisciplinary nature of this course caters for students who are considering entering the employment market and who are attracted not only to the possibility of a career in the legal sector but also to a career in the business sector. The mix of law and business modules offered on this programme expands the range of careers that are available to graduates once they have completed the course.

Career Opportunity
Graduates of the BA (Hons) in Legal Studies with Business have found work in the following areas:
- Legal Sector
- Commercial Sector
- Financial Sector
- Teaching in secondary schools after gaining a recognised Higher Diploma in Education
- Insurance Sector

Course Electives
Students who have completed the BA in Legal Studies in International Trade cannot elect EU Law. Students who have completed the BA in Legal Studies must elect EU Law. The elective group of Administrative Law & Jurisprudence are only available at the discretion of the Head of Department.

Follow on Study
Taught Masters programmes or Masters degrees by Research at WIT or other third-level Colleges, or the Higher Diploma in Education.

COURSE OUTLINE

YEAR ONE

<table>
<thead>
<tr>
<th>SEMESTER ONE</th>
<th>SEMESTER TWO</th>
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<tbody>
<tr>
<td>Contract Law 1</td>
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<td>Company Law 1</td>
<td>Company Law 2</td>
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<td>Insurance Law</td>
<td>Financial Management 2</td>
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<td>Financial Accounting 1</td>
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<td>Financial Management 1</td>
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<td>Jurisprudence 2</td>
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<tr>
<td>Jurisprudence 1</td>
<td>Arbitration Law</td>
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<tr>
<td>Business Strategy</td>
<td></td>
</tr>
</tbody>
</table>

STUDENT VIEW

“...very intensive and challenging but the variety of law and business subjects gave me many opportunities when deciding what route to take in my career. The range of subjects has proven very relevant to my current employment in the insurance industry. The knowledge and analytical skills gained throughout my studies in WIT have really assisted me in my career to date.”

Dana Lopez
BACHELOR OF ARTS (HONS) IN
HOSPITALITY MANAGEMENT

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

OTHER REQUIREMENTS
Students on this course will be required to provide their own uniforms and equipment for practical classes; the estimated cost is €175.

DURATION
4 years

POINTS 2018
Min: 271
Range: 271 - 390

COURSE LEADER
Tony Quinlan
Email: tquinlan@wit.ie

Course Aims
The term Hospitality Management is most commonly associated with Hotels but also includes careers in entertainment venues, restaurants, bars and casual-dining, event management and contract catering.

This four year course is designed to equip graduates with a broad range of business skills combined with a thorough knowledge of the hospitality environment.

Career Opportunities
- Operations Management
- Licensed Premises Manager
- Hospitality Human Resources Manager
- Hospitality Sales & Marketing Managers
- Catering Managers / Restaurant Operators
- Conference and Event Coordinators
- Entertainments Management, Bars, Nightclubs, Venues, Casual Dining

Follow on Study
Students of this course have progressed to complete further postgraduate study and research in the areas of Hospitality, Tourism, and Business Management.

Hospitality Placement
During the first semester of year 3, students are required to complete a placement organised by the college in a hospitality organisation in Ireland or abroad. Students are actively involved in the decision making process in order that their choice of work experience is appropriate to their career aspirations and interests. This work experience allows students to gain real experience of working in a hospitality business.

Past companies who have been involved in the placements include: Four Seasons, Hilton, Westin, Mount Juliet Conrad, Park Hotel Kenmare, Jurys-Doyle, Tower Hotel Group and many more.

COURSE OUTLINE

YEAR ONE
semester one
language (french, german, spanish, italian)
basic financial accounting
introduction to management
food & beverage service
introduction to hospitality
service operations
applied communications and it

semester two
front office and accommodation operations
applied communications and it
language (french, german, spanish, italian)
hospitality financial accounting
management studies
advanced food and beverage service

YEAR TWO
semester three
communication for research
beverage studies
language (french, german, spanish, italian)
introduction to marketing
business law
introduction to management accounting

semester four
hospitality marketing
conference & event management
hospitality law
language (french, german, spanish, italian)
tourism and hospitality
oenology (wine studies)

YEAR THREE
semester five
hospitality industrial placement

semester six
research methods & statistics
revenue management
language (french, german, spanish, italian)
tourism and hospitality
hrmb
services marketing

YEAR FOUR
semester seven
applied research
strategic hospitality finance
strategic management
language (french, german, spanish, italian)
human resources development & employee relations
web sites & e-business for the hospitality & tourism industry

semester eight
e-commerce and web authoring
advanced services management
strategic case analysis
language (french, german, spanish, italian)
dissertation
facilities asset management
strategic hrm

STUDENT VIEW

“I greatly enjoyed my four years of studying Hospitality Management at WIT. The subjects covered in this course allowed me to experience a variety of different modules varying from practical classes to theory based classes. The field trips helped to expand my knowledge and gain an insight into realistic business practices. This course offers students the opportunity to work as individuals and as a team in various modules.”

Daryl Daniels
HIGHER CERTIFICATE IN ARTS IN
HOSPITALITY STUDIES

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7

OTHER REQUIREMENTS
Students on this course will be required to provide their own uniforms and equipment for practical classes; the estimated cost is €200.

DURATION
2 years

POINTS 2018
Min: 171
Range: 171 - 484

COARSE LEADER
Fabrice Bartholin
Email: fbartholin@wit.ie

Course Aims
This two year full-time course qualifies students for multi-skilled hospitality employment at a professional level. Training covers both theory and practice, including a period of work placement in the hospitality industry at the end of year one. This course is particularly attractive for those who enjoy variety and are looking for all-round experience. Many graduates go on to specialise in a particular area in the hospitality industry, including management.

Career Opportunities
Students are provided with a qualification recognised worldwide. They will have a strong foundation in the operational skills and junior management techniques, which are essential for supervisory positions in the hospitality sector. This qualification offers huge international opportunities.

Follow on Study
BA (Hons) in Hospitality Management - WD091

Unique Features
Students complete a placement organised by the Institute, and tailored to suit their learning needs. WIT has world class facilities which allow students to learn practical and applied skills in specially designed service restaurants, demonstration theatres, teaching kitchens and language laboratories.

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
Learning to Learn
Food & Beverage Operations 1.1
Food & Beverage Cost Control
Accommodation Operations
Information Technology
Elective

SEMESTER TWO
Personal Development & Career Planning
Food & Beverage Operations 1.2
Culinary Studies
Facilities Operations
Communications & Customer Care
Elective

YEAR TWO

SEMESTER THREE
Advanced Food & Beverage 2.1
Front Office Operations 2.1
Human Resource Management & Training
Tourism Studies
Introduction to Hospitality Accounting
Elective

SEMESTER FOUR
Hospitality Financial Accounting
Advanced Food & Beverage 2.2
Front Office Operations 2.2
Introduction to Management
Marketing Principles
Elective

STUDENT VIEW

“The transition to third level education in WIT has given me a great sense of independence. The lecturers are fantastic to help you out and they help if they can with any advice. There are plenty of clubs and societies available to join, but the cherry on top has been the work placement. I got paid summer work placement in a hotel in Galway City. It has opened my eyes to the world of hospitality and has taught me a lot over the last few months.”

Siobhan O’Grady

Applied CAO
WD173
wit.ie/wd173
BACHELOR OF ARTS (HONS) IN
TOURISM MARKETING

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
3 years

POINTS 2018
Min: 268
Range: 268 - 387

COURSE LEADER
Angelo Hurley BSc, MSc
Email: ahurley@wit.ie

Course Aims
The three year BA (Hons) in Tourism Marketing is designed to provide learners with the theoretical and practical skills necessary for a successful career in a number of sectors within the wider travel and tourism industry. The structure of the course and the modules undertaken at each year are designed to develop necessary managerial and marketing abilities.

Language Options
Students can choose to study one of the following language options: Italian (beginners), Spanish (beginners), German (beginners) or French (Post Leaving Certificate).

Careers in Tourism
Successful graduates of this course are likely to find employment in marketing or management positions in the following areas:
- Visitor facilities, attractions and heritage centres
- Inbound and outbound tour operations
- Public and non-profit making organisations including government organisations, Regional Tourist Authorities, community groups and tourism co-operatives
- Transport industry
- Hospitality industry and in the major group marketing agencies for the hospitality industry
- Travel agency sector
- Self-employment in small and medium tourism enterprises

Hospitality Placement
Students undertake a Professional Practice module in Year Two in preparation for a period of tourism placement during the summer between years two and three. This experience will provide the learner with the opportunity to apply theory to a practical context and help the student to finalise future career plans. The placement can be taken in Ireland or internationally.

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
The Tourism System
Language
Introduction to Communications and Information Technology
Foundations of Marketing
Basic Financial Accounting
Introduction to Management

SEMESTER TWO
The Strategic Marketing Mix
Organisation Behaviour
Applied Communication and Information Technology
Language
Tourism Studies
Introduction to Economics of Tourism

YEAR TWO

SEMESTER THREE
Business Law
Market Research Theory
Language
Intercultural Studies
Consumer Behaviour
Information Technology and Travel
Conference & Event Management

SEMESTER FOUR
Research Methods & Statistics
Introduction to Management Accounting
Entrepreneurship, Innovation & Tourism
Language
Integrated Marketing Communication
Revenue Management
Tourism Destinations
Heritage & Cultural Studies

YEAR THREE

SEMESTER FIVE
International Marketing
Dissertation
Services Marketing
The Impacts of Tourism
Professional Practice

SEMESTER SIX
Sustainable Tourism
Global Strategic Marketing
Tourism Branding
Dissertation
E-Commerce & Web Authoring

STUDENT VIEW

“I successfully completed the BA in Tourism Marketing course in WIT. I really enjoyed my time studying as the lecturers were very helpful and the course content was varied and well balanced. The lectures were never crowded which created a good learning environment. Two months after graduating, I secured employment in the tourism industry.”

Luisa Golz
HIGHER CERTIFICATE IN BUSINESS IN TOURISM

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7

DURATION
2 years

POINTS 2018
Min: AQA*
Range: AQA - 452
*AQA = All qualified applicants

COURSE LEADER
Dr Seamus Ó Díollúin
Email: sodiolluin@wit.ie

Course Aims
This course is two years full-time and will provide students with the core abilities to succeed in a variety of positions within the tourism and travel industry.

The subject of tourism is concerned with the movement of people, usually for leisure or business but increasingly for education, health or other purposes and how people and resources interact as the travel process takes place. It is also concerned with the impact tourism has on communities and in the management of that industry in order to maximise positive benefits.

Career Opportunities
Graduates of the Higher Certificate in Business in Tourism with suitable post-qualification experience may reasonably expect to work as:
- Travel Advisers and Agents
- Ground Crew and Reservations Personnel in the aviation industry
- Tour Information Officers
- Tour Representatives
- Guides in Visitor Attractions
- Customer Relations and Administrative Personnel in a variety of tourism-related organisations

Special Feature
An integral feature of this course is a period of work placement during the summer between year one and two. In year two you will also have the opportunity to specialise in two subjects, Guiding or Travel Trade Operations.

Follow on Study
BA (Hons) in Tourism Marketing - WD148

COURSE OUTLINE

YEAR ONE

YEAR TWO

YEAR ONE

YEAR TWO

STUDENT VIEW

“...The lecturers were excellent and did everything they possibly could to help us throughout. It gave me great confidence when completing assignments as I knew I could go to them when I needed advice. I completed a 3 month placement in my local tourist office. Throughout my time there, I worked at the Fleadh Cheoil na hEireann in Ennis which is the largest traditional Irish music concert in the world. Doing this course was the best decision I ever made!”

Marie Duffy
BACHELOR OF ARTS (HONS) IN
CULINARY ARTS

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
4 years

POUNDS 2018
Min: 282
Range: 282 - 451

COURSE LEADER
Lorain Walsh
Email: lswalsh@wit.ie
Tel: 051 302717

Course Aims
This is a full time, four year, level 8 programme of innovative and dynamic culinary study. It is a revisioning of traditional culinary skills training to include a number of other disciplines such as food innovation, media and visual arts, food policy, speciality food production, sustainable practices and gastronomy.

The curriculum has been designed to bring students into the worlds of interdisciplinary learning, research and enquiry and the emphasis is less on training and more on holistic development in order that graduates will elevate current industry practices to a new dimension both regionally and nationally. Graduates will be empowered to become self-starters with passion and entrepreneurial traits.

International and Industrial Experience
Central to the degree is a year combining industrial and international experience. During the first semester of year 3 students complete an internship in industry, followed by an opportunity to take a semester of international study in semester 6. This will offer culinary students firsthand experience of international standards and best practice in culinary operations.

Interdisciplinary study
Interdisciplinary study of social, human and culinary sciences and will encourage students to think about the future of gastronomy, encouraging them to explore the connection between environmental consciousness and creativity, politics and food production, the media and culinary arts, amongst other things.

Opportunities
The interdisciplinary nature of study equips graduates with the skills and knowledge to establish a career path in the culinary sector and increased flexibility to work in varied employable sectors such as:
- management positions within the hospitality sector, such as specialist chef, chef de partie and sous chef
- marketing and promotion
- entrepreneurship in creative food technology and development industries
- food product innovation centres
- artisan food production units
- food promotion
- education and training;
- event catering and food and beverage retail management
- in the domain of food styling
- food and related journalism

Follow on Study
Students who have reached the appropriate honours standard may have access to a range of Masters Degrees in WIT and elsewhere.

Course Outline

YEAR ONE

SEMESTER ONE
Fundamentals of Culinary Skills
Introduction to Gastronomy
Food Safety & Technology
Critical & Creative Thinking
Introduction to Business Management
Language

SEMESTER TWO
Development of Culinary Skills
Development of Modern International Gastronomy
Nutrition & Scientific Principles
Information & Communication Technology for Culinary Arts
Organisational Behaviour
Language

YEAR TWO

SEMESTER THREE
Advanced Culinary Skills
Oenology
Food Analysis
Financial Accounting
Marketing for Culinary Business Enterprises
Entrepreneurship
Language

SEMESTER FOUR
Culinary Operations
Food, Energy and Sustainable Practices in Culinary Arts
Food Microbiology
Costing and Budgeting for Culinary Arts
Research Methodology
Language

YEAR THREE

SEMESTER FIVE
Industrial Placement

SEMESTER SIX
International Study

YEAR FOUR

SEMESTER SEVEN
Contemporary Food Policies
- Advanced Culinary Applications: Classical & Contemporary Cuisine
- Advanced Culinary Applications: Pastry & Confectionary 1
Electives (15 Credits)
- Food Innovation 1 (15)
- Media & Visual Arts 1: Writing About Food (5)
- and Artisan/Specialty Food Production (10)

SEMESTER EIGHT
European Food Regulatory Affairs
- Specialist Culinary Applications: Specialised Kitchen & Larder
- Specialist Culinary Applications: Pastry & Confectionary 2
Electives (15 Credits)
- Food Innovation 2 (15)
- Media & Visual Arts 2: Food Imagery, Promotion & Design (5) and Artisan/Specialty Food Production (10)

Student View

“WIT is a great place to study. The lecturers there are very informative, friendly and will go above and beyond to get you on your journey. This course is a great course for furthering your knowledge in your gastronomic journey. From learning new techniques and presentation ideas; to culinary leadership and oenology; this course will open new ideas for you. I have set up my own business, the Bay Tree Bistro’s since completing my degree at WIT.”

Keith Boyle, Owner of The Bay Tree Bistro Waterford
Course Aims
This course is delivered over two years full-time. This is the course to train and develop you for the role of professional chef in the world of tourism and hospitality. As a chef you need to be creative with food, aware of cost and food safety in the kitchen environment. On completing this course you will have the foundation and knowledge to further your career in today’s fast growing industry.

Training covers theory and practice in professional cookery. Work based learning takes place during the summer months in catering establishments throughout the country.

Benefits to be gained form this course
- Be qualified to work in various catering establishments i.e., restaurants/hotels/gastro bars/cruise ships/contract catering/ factory catering/food development
- Travel abroad as the qualification is recognised worldwide

Follow on Study
BA (Hons) in Culinary Arts - WD194

Student View
“I decided to come back to college as I had always had a dream of becoming a chef. I had such an itch to scratch that I decided it was now or never. My long-term dream for me is to become self-employed and I am on the road to this having graduated with the Higher Cert in Culinary Arts. What I will say to any student thinking about going back to college is to ‘go for it’.”

John Keenan
ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

OTHER REQUIREMENTS
In addition to Leaving Certificate, students are required to attend for written and aural musical tests and to show a performance standard achievement with a musical instrument equivalent to grade 5 of a recognised music examining body. All applicants must attend for the written examination and aural test to be considered for a place.

RESTRICTED COURSE
As this is a restricted course, applicants must apply by 1 February.

INSTRUMENT TUITION
Should you be offered and accept a place on WD027, tuition will be provided in the instruments listed on www.wit.ie/WD027. You will be required to specialise in one of these instruments.

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
- Critical Thinking & Writing Skills
- Composition 1
- Performance 1
- General Musicianship 1
- Keyboard Skills
- Vocal Skills
- Improvisation
- Irish Traditional Practical
- Music History

SEMESTER TWO
- Music Research Methodologies
- Composition 2
- Performance 2
- General Musicianship 2
- Keyboard Skills
- Vocal Skills
- Improvisation
- Irish Traditional Practical
- Music History

YEAR TWO, THREE & FOUR

Music History
- There is a wide range of history options; some examples include ethnomusicology, baroque, popular music since 1950, Irish contemporary music, traditional Irish music and the Bebop era.

Technical Subjects
- In addition to students also study technical subjects such as:
  - Music Technology
  - Digital, Audio & Acoustics
  - Advanced Recording Techniques

Ensembles
- Students take part in a weekly large performance group (jazz, Chamber Choir, Guitar, Irish Traditional and Orchestral).

Major & Minor
- In Year 4, students can choose a major and a minor in the following subjects:
  - Composition
  - Dissertation
  - Performance
  - Advanced Music Technology
  - Critical Music Editing
  - Conducting

The delivery of electives will depend on the demand and resources available.

STUDENT VIEW

“I chose to study at WIT because of the high calibre of staff and the prestigious Music School. I always had a love for music and started my degree majoring in Bass guitar. I completed my undergraduate studies, for which I received a First Class Honours BA (Hons) in Music, majoring in composition.”

Patrick O’Connor
What is Visual Art?
The concept of visual art is very broad. For example, it can refer to a skillfully crafted object or an inspired visual statement. What we can say is that visual art plays a crucially important role in our lives, enhancing them in various ways.

Course Aims
The ab initio four years Honours Degree in Visual Art at WIT has been informed by the latest developments in art theory and practice. These include, the use of inter and multi-disciplinary approaches, availing of the creative opportunities inherent in new media and the development of a comprehensive understanding of contemporary critical theory. At the same time, the course recognises the continuing significance of more traditional art forms, such as drawing and painting, and these are incorporated into the programme.

Career Opportunities
- Professional Artists
- Community Artists
- Audio Visual Producers
- Computer Animators
- Theatre Designers
- Arts Management

Follow on Study
MA in Art by Research
Taught MA in Art & Heritage Management

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
Art Core Studies 1
2D Media 1.1
3D Media 1.1
Creative IT Applications (Art)
Art History/Critical
Thinking Skills

SEMESTER TWO
Art Core Studies 2
2D Media 1.2
3D Media 1.2
Research Methodologies in Art & Art History

YEAR TWO

SEMESTER THREE
2D Media 2
3D Media 2
Live Art 1
Creative Multimedia 1
Photography 1
History of Early Modern Art

SEMESTER FOUR
Live Art 2
Creative Multimedia 2
Introduction to Drama Practice
History of Modern and Postmodern Art

YEAR THREE

SEMESTER FIVE
Identity and Context
Arts Management
Art & its Histories

SEMESTER SIX
Creative Multimedia 3
Art - Environment
Research & Project Proposal
Critical Artistic Debates

YEAR FOUR

SEMESTER SEVEN
Major Art Project 1
Art History Dissertation
Project Analysis

SEMESTER EIGHT
Major Art Project 2

The delivery of electives will depend on the demand and resources available

STUDENT VIEW

“My time at WIT helped me to develop the discipline to work on art every day. I enjoyed first year especially where I spent a lot of time on the basics of drawing and colour theory. It is a great course for trying out different disciplines and developing and following through with concepts for projects. My graduate exhibition in WIT was a series of self-portraits portraying the seven deadly sins. WIT gave me a good foundation to start my art career.”

Deborah Reidy

Photo credit: Deborah Reidy’s “Portrait of sculptor Mark Maher” as exhibited at the prestigious Royal Hibernian Academy Dublin
### What is Visual Communications?

Visual Communication is often referred to as graphic design and it embraces symbols, type and images that appear in the commercial public domain. Graphic designers work across a wide variety of print and screen disciplines and the end result is normally a creative output in 2D format. With the arrival of digital and mobile technology, visual communication now includes virtual media, information design and screen-based design.

### Course Aims

This is a four year degree course, which prepares students for employment in the advertising and design arena. The course reflects academic and creative input, which is required for the dynamic nature of commercial graphic design. The degree has been designed to be innovative, consisting of studio practice, design history, marketing, legal and visual culture. The practice-based elements of the course include graphic design/typography in print and design, illustration, together with printmaking, digital media and photography.

### Career Opportunities

Graduates of the BA (Hons) in Design (Visual Communications) find employment in the following areas:

- Advertising Agencies
- Digital Media
- Screen & Web Design
- Marketing
- Printing & Digital Output Design

### Special Feature

The primary learning curve is to develop strong creativity that will result in building confidence through experimentation. Other special features include legal aspects and entrepreneurial development.

### Follow on Study

Graduates can proceed to the postgraduate Higher Diploma in Art & Design in Education and to Masters Research.

### COURSE OUTLINE

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<td>Design Core Three</td>
<td>Design Core Five</td>
<td>Design Core Seven</td>
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<td>Image-making Three</td>
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<tr>
<td>Research Methods</td>
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</table>

The delivery of electives will depend on the demand and resources available.

### STUDENT VIEW

“I always had a keen interest in the aesthetics of art and design so going on to do this course was a no-brainer for me. In this course, the one-on-one time you get with the lecturers is invaluable as each individual lecturer has their own advice and experiences to share. The experience of working in a real design studio setting has been a great learning curve and I have to thank WIT for preparing me.”

Paul Devereux
SCHOOL OF SCIENCE & COMPUTING

www.wit.ie/scienceandcomputing

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Disclaimer:
All course titles and information are subject to change. We are constantly improving our portfolio of courses. See www.wit.ie for the most up to date information.
## SCIENCE AT WIT

### DEPARTMENT OF SCIENCE

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<td><strong>BSc (Hons) in Pharmaceutical Science</strong></td>
<td><strong>BSc (Hons) in Molecular Biology with Biopharmaceutical Science</strong></td>
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<td><strong>WD177</strong></td>
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<td><strong>WD002</strong></td>
<td><strong>LEVEL 8</strong></td>
<td><strong>LEVEL 8</strong></td>
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**Advanced Entry:** Students who have completed all or part of a third level qualification may be eligible for entry into years other than year 1 of our courses. See [www.wit.ie/advancedentry](http://www.wit.ie/advancedentry)

^ Course choice in Year 2 is subject to availability of places and minimum performance requirements

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### YEAR 4 POSTGRAD

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www.wit.ie/science
Advanced Entry: Students who have completed all or part of a third level qualification may be eligible for entry into years other than year 1 of our courses. See www.wit.ie/advancedentry

Industrial Placement
The Work Placement Programme for Computing students at WIT is an integral, accredited module for all of our third year undergraduate students. Work Placement gives students the opportunity to apply the theory they have acquired on their degree programme to real-world problems and tasks, in an industry setting. It also enables third level institutions to interface more effectively with industry partners and to build relationships with companies in the region and nationally.

www.wit.ie/computing
Why Study Science?
Studying science creates a well-rounded individual who has the ability to analyse and question the things around them, and has the potential to improve the quality of life through the research that they do. Studying science will broaden a person’s understanding of the world around them and give them the skills needed to approach matters in a reasoned and analytical manner.

Careers in Science
One of the best reasons for studying science is the wide variety of career opportunities that the graduate has access to. A science degree is a well established platform to a surprisingly wide range of careers outside science (e.g. management, sales) as well as within science (research, teaching).

What is Science (Common Entry)?
Science (Common Entry) was designed as a common entry course for the student who has a keen interest in science, but is unsure of which area they would like to specialise in.

This course gives the student a flavour of a variety of different scientific disciplines, allowing them to keep their options open when applying to study science at third level.

Course Modules
The modules of this course offer an introduction to biology, chemistry, physics, mathematics and computing. Modules are also offered in specialised areas such as Food Science, Pharmaceutical Science, Molecular Biology, Biopharmaceutical Science and Physics. The student can get a taste of what is involved in each of these areas, before making a more informed choice as to which area they would like to specialise in for their degree.

Progression Opportunities
Upon completion of Year 1 of Science (Common Entry), students have the choice of progressing into Year 2 of any of the following degree courses:
- BSc (Hons) in Pharmaceutical Science (WD002 PHA)
- BSc (Hons) in Molecular Biology with Biopharmaceutical Science (WD002 BIO)
- BSc (Hons) in Food Science and Innovation (WD002 FOO)
- BSc (Hons) in Physics for Modern Technology (WD002 PHY)

More information on each of the above progression routes/courses can be found on the subsequent pages of this handbook.
What is Pharmaceutical Science?
The pharmaceutical industry makes a vital contribution to society through the development and production of drugs such as antibiotics for infectious diseases, cancer treatment drugs and antiviral drugs for HIV. The pharmaceutical sector plays a vital role in Ireland’s economy with over 150 pharmaceutical companies. There is a strong demand for graduates qualified in pharmaceutical science and employment prospects are excellent.

Course Aims
This is a four year full-time honours degree aimed at preparing graduates for the pharmaceutical industry. Students will be exposed to a broad range of subjects and laboratory instrumentation relevant to the pharmaceutical industry. A research project is also carried out in year 4. The course also provides graduates with a range of transferable skills so that graduates are qualified for a wide range of science-based industries.

Work Placement
A six-month work placement is included in the third year of the course.

Follow on Study
MSc and PhD by research.

Career Opportunities
A degree in pharmaceutical science will provide graduates with skills that are much sought after in a range of sectors including:
- Pharmaceutical & biopharmaceutical industries
- Quality control & quality assurance
- Laboratory analysis
- Research & development
- Education & teaching after completing a Professional Master of Education
- Food & drinks industry

Research at WIT
WIT lecturing staff teaching on this course are actively involved in a range of highly successful and well-funded research related to pharmaceutical science. Collaborators include national and international universities and research institutes, and industrial partners from the pharmaceutical sector both in Ireland and abroad. Current research areas include: development of novel polymers for therapeutic drug delivery, biomedical research in eye treatment, novel analytical methods for pharmaceutical products, sensing devices for environmental analysis, biotechnology for drug synthesis and bioremediation.

STUDENT VIEW
“I knew I loved science in secondary school and wasn’t sure which type of science I wanted to study. Studying the pharmaceutical science course gave me huge direction and I really took to the pharma side. I really enjoyed all the lab work we got to do as well as the practical elements. I started working in a pharmacy and my goal is to become a pharmacy technician.”

Alana Drohan
Course Aims
The BSc (Hons) in Molecular Biology with Biopharmaceutical Science is a four year honours degree course. There is a major emphasis in this course on modern areas of biology such as molecular biology and analytical methods used in pharmaceutical and food industries.

Career Opportunities
Graduates of this course have a wide variety of opportunities open to them, including further study. Career development to laboratory management is enhanced by studies in Information Technology and Quality Management. Some of the areas of employment are:
- Analytical, food and pharmaceutical industries
- Production, quality assurance or research and development.

Follow on Study
- Secondary teaching (taking the Professional Master of Education at another institution).
- Postgraduate studies leading to MSc and PhD.

Research at WIT
WIT lecturing staff teaching on this course are active in a range of successful and well-funded research projects in a variety of biological areas. Current research interests are in food microbiology, biochemistry, molecular biology, molecular ecology and biomedical science. There are active collaborations with national and international universities, research institutes and commercial organisations.

STUDENT VIEW
"My time studying Biology at Waterford Institute of Technology was an excellent experience. The course material is of extremely high standard and is delivered by lecturers who are committed to assisting students in achieving the best possible results. The balance of course material between theoretical and practical work complemented each other perfectly. The practical laboratory sessions aided my understanding of lecture material, the development of practical skills vital for industry, and the development of critical thinking, problem solving and communication skills. This degree programme has given me the skills necessary for a future in industry but has also provided me with the confidence to pursue further education at the post graduate level. I would strongly recommend this course to individuals who have a keen interest in biological sciences and who are committed to working hard for the achievement of their academic goals. I believe that WIT’s department of science is committed to providing undergraduate courses that deliver content and training that is relevant to the methods and techniques currently being implemented in industry and scientific research today."

Thomas Byrne
**Course Aims**
The rationale for this honours degree is based on an analysis of the importance of the Food and Drinks industry in Ireland. To support the development of the course, extensive consultation was carried out with industry stakeholders. In order to offer a course with a unique and innovative approach, cross-departmental cooperation has been a major feature in its development.

**Unique Features**
The modules in this course bring together science, business, enterprise and the culinary arts responding to the needs of the food industry. It also includes real industrial type tasks such as market research, business plan development, product innovation and manufacture, sensory analysis and show casing of new products.

The sector faces a challenging environment to maintain competitiveness in export markets. Energy costs, currency costs, consumer demand, labour costs and regulatory issues all have an effect on competitiveness. These issues will be addressed by the skills and knowledge acquired by graduates to take up the challenges that lie ahead for the Irish food industry.

This honours degree responds to the current needs of industry in an innovative and imaginative way. The graduates from this course will have the necessary skills based on science, business and enterprise to face these challenges.

**Career Opportunities**
Our industry stakeholders have had a very active role in developing this course. Each company agreed that it was important that the students need to develop more skills that will benefit themselves, their employability and in turn the sector as a whole. This is achieved by offering the BSc (Hons) in Food Science and Innovation. Industrial partners to date include, the Dawn Group, (Dawn Meats, Dawn Pork and Bacon, Convenience Foods, Glenpatrick Spring Water), Glanbia, Diageo, Dunhill Cuisine, Flahavans, Iverk Fruit and Vegetable, Paganini Foods and Wexford Creameries.

**Follow on Study**
Graduates from this course have the opportunity to progress to postgraduate study at both masters and PhD level.

**The Food Industry in Ireland**
“The food and drink industry is Ireland’s most important indigenous sector. With a gross output of over €18 billion and total employment linked to the sector at 230,000, it is a vital part of Ireland’s economic and social framework. Innovation and development within the sector is driven largely by consumer trends and preferences. Customers are at the heart of everything that the food and drink industry does and it is continuously adapting to better serve their wants and needs.” (Paul Kelly, Director, Food and Drink Industry Ireland).

**Student View**
The Dawn Meats Innovation Awards 2016 saw Courtney O’Sullivan selected as the winner of the competition for her newly developed product ‘Sinless Sully’s’. “I developed a product, ‘Sinless Sully’s’ which is a gluten free, avocado based brownie mix ready to bake. I identified a rise in the gluten free chilled ambient sector, with no opposing competitors for the same shelf space and it seemed like a viable option for New Product Development,” O’Sullivan said following her win.

**Course Outline**

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<td>Introductory Biology</td>
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<td>Introductory Mathematics</td>
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<td>Accounting for Food Scientists</td>
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<td>Good Lab Practice &amp; Core Skills</td>
<td>Statistics for Scientists</td>
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<tr>
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Course outline is subject to change.
Why are Physics and Technology important?
Physics is central to understanding our world and it is the driving force behind most modern technologies. Smartphones, iPads, fibre-optics, lasers, GPS satellites, solid state drives, radiotherapy beams, smart sensors, medical imaging systems, and a host of other devices and systems, are all applications of physics.

Course Aims
The BSc (Hons) in Physics for Modern Technology is a four-year honours degree course, which includes a six-month work placement in industry. This is inter-disciplinary and provides students with an understanding of the physics underlying modern technologies such as semiconductors, optics/photonics, alternative energy, and sensor systems. It provides students with complementary skills in the areas of physics, engineering, mathematics and programming. Graduates will develop a range of transferable skills that are valued and much sought after by industry.

Professional Links
This course is recognised by the Institute of Physics (IOP), the professional body for physicists. Graduates qualify for Associate Membership which provides a route to full Institute Membership following appropriate professional experience. Further details can be found at www.iop.org.

YEAR ONE

SEMESTER ONE
Introductory Biology
Introductory Chemistry
Introductory Physics
Introductory Mathematics
Introduction to ICT for Scientists
Good Lab Practice & Core Skills

SEMESTER TWO
Cell Biology and Biochemistry
Mathematics for Scientists
Physics for Scientists
Introduction to Biotechnology and Pharmaceutical Science
Introduction to Food Science
Mechanics & Waves
Plant Biology
Science & Society

YEAR TWO

SEMESTER THREE
Advanced Mechanics & Waves
Alternative Energy
Electronic Devices & Systems
Ordinary Differential Equations
Programming Fundamentals I
Materials II

SEMESTER FOUR
Science Universe & Society II
Electromagnetism & Physical Optics
DC/AC Fundamentals
Advanced Calculus
Programming Fundamentals II
Thermodynamics

YEAR THREE

SEMESTER FIVE
Atomic, Quantum & Solid State Device Physics
Electromagnetism, Physical Optics & Photonics
Measurement Systems
Advanced Engineering Mathematics
Computational Environments & Toolchains
Semiconductor Fundamentals

SEMESTER SIX
Work Placement

YEAR FOUR

SEMESTER SEVEN
Advanced Optics
Computational Physics with Research Methods
Control Systems
Semiconductor Device Technology & Spectroscopic Techniques

SEMESTER EIGHT
Semiconductor Devices
Photonics Applications
Research Project
Digital Control
Advanced Materials and Process Selection
Applied Fluid Dynamics
Automated Cloud Services
Automotive Diagnostic Protocols
The Corrected Car

STUDENT VIEW

“The lecturers in WIT are receptive to students and review the curriculum to best prepare you for the demands of industries and the class sizes are small and this is a huge benefit. Year three of the degree includes a work placement. I worked in two places, FeedHenry and the European Space Agency (ESTEC). Both placements were incredibly and equally valuable. I learned a lot of software development from FeedHenry - which helped in my final year and beyond.”

Daniel Vagg
Why Study Science?
Studying science creates a well-rounded individual who has the ability to analyse and question the things around them, and has the potential to improve the quality of life through the research that they do. Studying science will broaden a person’s understanding of the world around them and give them the skills needed to approach matters in a reasoned and analytical manner.

Careers in Science
One of the best reasons for studying science is the wide variety of career opportunities that the graduate has access to. A science degree is a well-established platform to a surprisingly wide range of careers outside science (e.g. management, sales) as well as within science (research, teaching).

Course Aims
The BSc in Science was designed as a common entry course for the student who has a keen interest in science, but is unsure of which area they would like to specialise in. This course gives the student a flavour of a variety of different scientific disciplines, allowing them to keep their options open when applying to study science at third level.

Course Modules
The modules of this course offer an introduction to biology, chemistry, physics, mathematics and computing. Modules are also offered in specialised areas such as Food Science, Pharmaceutical Science, Molecular Biology, Biopharmaceutical Science and Physics. The student can get a taste of what is involved in each of these areas, before making a more informed choice as to which area they would like to specialise in for their degree.

Progression Opportunities
Upon completion of Year 1 of the BSc in Science, students have the choice of progressing into the second year of any of the following degree courses:
- BSc in Molecular Biology with Biopharmaceutical Science (WD205)
- BSc in Food Science with Business (WD164)
- BSc in Pharmaceutical Science (WD175)

BACHELOR OF SCIENCE (GENERAL) PROGRESSION ROUTES

CAO ENTRY

Bachelor of Science (General)

WD177 LEVEL 7

DEGREE COURSE PROGRESSION

WD205 LEVEL 8

BSc in Molecular Biology with Biopharmaceutical Science

WD164 LEVEL 7

BSc in Food Science with Business

WD175 LEVEL 7

BSc in Pharmaceutical Science

FOLLOW ON STUDY

Postgraduate study at WIT

MSc/PhD

More information on each of the above progression routes/courses can be found on the subsequent pages of this handbook.
**Course Aims**
The aim of the BSc in Molecular Biology with Biopharmaceutical Science programme is to provide graduates with current advanced scientific skills in areas such as DNA technology and bioinformatics, molecular biology and pharmaceutical biotechnology as well as cell culturing and pharmacology.

**Career Opportunities**
The programme will provide graduates with the relevant expertise in biological and analytical sciences in preparation for careers in biopharmaceutical, biomedical and/or food related industries.

**Follow on Study**
Graduates of this programme can progress to the level 8 BSc (Hons) in Molecular Biology with Biopharmaceutical Science (WD002 BIO) from which graduates can progress to further study such as postgraduate research and/or the Professional Master in Education (PME) for secondary teaching.

**STUDENT VIEW**
“I really enjoyed my time at WIT. The BSc in Molecular Biology with Biopharmaceutical Science offers the perfect mixture of theoretical and practical aspects. The small class sizes and extremely knowledgeable lecturers make this course excellent. Upon leaving WIT I felt confident in myself and my abilities and was well prepared for the working world. I really couldn’t recommend this course enough for anyone looking to pursue a career in science.”

Bryan Rellis
**BACHELOR OF SCIENCE IN**

**FOOD SCIENCE WITH BUSINESS**

**ENTRY REQUIREMENTS**
- 5 subjects: O6/H7
- English or Irish: O6/H7
- Mathematics: O6/H7

**RECOMMENDATION**
Applicants should note that a science subject (Biology, Chemistry, Physics, Physics with Chemistry or Agricultural Science) at Leaving Certificate is recommended for this programme.

**DURATION**
3 years

**POINTS 2018**
- Min: 216
- Range: 216 - 555

**RECOMMENDATION**
Applicants should note that a science subject (Biology, Chemistry, Physics, Physics with Chemistry or Agricultural Science) at Leaving Certificate is recommended for this programme.

**Course Aims**
This degree course was designed in conjunction with food industry professionals to meet demand for suitably qualified graduates. The main aim of the course is to develop a graduate with the knowledge and skills to competently work in the various sectors of the industry i.e. meat, dairy, grain, bread, sugar and drinks. The course will equip graduates with expertise in food safety management, modern food processing methods, regulatory affairs, epidemiology and food business. Personal & professional development is a key feature of the course.

**Industrial Placement**
A twelve week industrial placement in the food industry is organised in the third year of the course. This is supported by our food industry partners and is seen as critical to the overall learning experience and development of the students.

**Kildalton Agriculture College**
The first year of the course involves a module delivered in Kildalton Agricultural College. Students are exposed to primary food production methods and a good understanding of quality food production on the farm.

**Career Opportunities**
Recent studies have highlighted the need for a proper interface between third level colleges and the food industry that would enhance graduate employment prospects. It is envisaged that graduates would enter such areas as production, processing, quality assurance, food analysis and product development as supervisor / manager.

**Follow on Study**
BSc (Hons) in Food Science & Innovation (WD002 FOO) - Year 4

**COURSE OUTLINE**

**YEAR ONE**

<table>
<thead>
<tr>
<th>SEMESTER ONE</th>
<th>SEMESTER TWO</th>
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</thead>
<tbody>
<tr>
<td>Introductory Biology</td>
<td>Cell Biology and Biochemistry</td>
</tr>
<tr>
<td>Introductory Chemistry</td>
<td>Physical and Organic Chemistry</td>
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<tr>
<td>Introductory Physics</td>
<td>Physics for Scientists</td>
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<tr>
<td>Introductory Mathematics</td>
<td>Mathematics for Scientists</td>
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<tr>
<td>Introduction to ICT for Scientists</td>
<td>Primary Food Production</td>
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<tr>
<td>Good Lab Practice &amp; Core Skills</td>
<td>Introduction to Food Science</td>
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</tbody>
</table>

**YEAR TWO**

<table>
<thead>
<tr>
<th>SEMESTER THREE</th>
<th>SEMESTER FOUR</th>
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<tbody>
<tr>
<td>Food Analysis</td>
<td>Food Microbiology</td>
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<tr>
<td>Microbiology 1</td>
<td>Food Process Technology</td>
</tr>
<tr>
<td>Nutrition</td>
<td>Food Regulatory Affairs</td>
</tr>
<tr>
<td>Laboratory Data Analysis &amp; Presentation</td>
<td>Environmental Science</td>
</tr>
<tr>
<td>Accounting for Food Scientists</td>
<td>Bioanalytical Methods for the Food Industry</td>
</tr>
<tr>
<td>Statistics for Scientists</td>
<td>The Professional Individual</td>
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</tbody>
</table>

**YEAR THREE**

<table>
<thead>
<tr>
<th>SEMESTER FIVE</th>
<th>SEMESTER SIX</th>
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<tbody>
<tr>
<td>Placement</td>
<td>Introduction to Quality Management</td>
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<td></td>
<td>Food Safety Management Systems</td>
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<td>The Professional Individual</td>
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<td>Food Business</td>
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<td></td>
<td>Epidemiology and Public Health</td>
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<td></td>
<td>Introduction to Research Methods</td>
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</tbody>
</table>

**STUDENT VIEW**

“Food Science with Business provided the perfect stepping stone to the level 8 programme, Food Science & Innovation. Lecturers provided invaluable help on a one to one basis which gives the student a more in-depth understanding of the course material. Each module was tied together perfectly with knowledge from one module being applicable in another module. The skills I developed gave me the confidence to apply for an internship as assistant winemaker in the US.”

David O’Keeffe
BACHELOR OF SCIENCE IN
PHARMACEUTICAL SCIENCE

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

RECOMMENDATION
Applicants should note that a science subject (Biology, Chemistry, Physics, Physics with Chemistry or Agricultural Science) at Leaving Certificate is recommended for this programme.

DURATION
3 years

POINTS 2018
Min: 206
Range: 206 - 566

WHAT IS PHARMACEUTICAL SCIENCE?
Pharmaceutical science combines a broad range of scientific subjects that are important for the discovery, development and manufacture of drugs and therapies.

COURSE OVERVIEW
- This is a three year degree.
- Students will cover areas of chemical, biological and analytical sciences of particular relevance to the pharmaceutical industry.
- Quality management is also covered which is very important for this area.
- A project will be completed in year 3 where the student works independently in a particular research area.
- The course allows you to obtain a worthwhile qualification after three years of study.
- It allows a more flexible progression to further qualifications such as transfer to the fourth year of a related honours degree at WIT or elsewhere.

PHARMACEUTICAL SCIENCE AT WIT
Students are exposed to a wide range of state-of-the-art instrumentation and equipment at WIT and learn from researchers actively involved in cutting edge areas such as separation science, pharmaceutical drug delivery, biotechnology and environmental science.

CAREER OPPORTUNITIES
The main career opportunities are in the pharmaceutical and related industries such as:
- Laboratory analysis
- Quality assurance
- Research and development of pharmaceutical products
- Environmental analysis
Graduates have found widespread employment in the large number of pharmaceutical industries in the southeast and beyond.

FOLLOW ON STUDY
BSc (Hons) in Pharmaceutical Science - WD147 (Year 4) - subject to application and/or interview. Subsequent transfer to postgraduate courses at masters and PhD level.

COURSE OUTLINE

YEAR ONE
SEMESTER ONE
Introductory Biology
Introductory Chemistry
Introductory Physics
Introductory Mathematics
Introduction to ICT for Scientists
Good Laboratory Practice & Core Skills

SEMESTER TWO
Cell Biology & Biochemistry
Physical & Organic Chemistry
Physics for Scientists
Mathematics for Scientists
Introduction to Biotechnology and Pharmaceutical Science
Science and Society
Forensic Science

YEAR TWO
SEMESTER THREE
Organic Chemistry and Biomolecules
Spectroscopic Techniques
Physical Chemistry
Statistics for Scientists
Pharmaceutical Science
Laboratory Data Analysis & Presentation

SEMESTER FOUR
Pharmaceutical Organic Chemistry
Chromatographic Techniques
Inorganic Chemistry
Environmental Science
Biopharmaceutical Science
Applied Mathematics for Scientists

YEAR THREE
SEMESTER FIVE
Total Quality Management
Chromatographic Method Development and Validation
Pharmaceutical Biotechnology
Pharmaceutical and Natural Products
Industrial Processing & Operations
Introduction to Research Methods

SEMESTER SIX
Physical Chemistry of Materials
Sensors and Electroanalysis
Laboratory Data Modelling
Inorganic and Structural Chemistry
Organic Chemistry and Advanced Spectroscopic Techniques
Project

STUDENT VIEW
"I really enjoyed the course overall, the large element of practical lab work helped to make the lecture material easy to understand and was excellent preparation for working in the pharmaceutical industry. The quality of the lecturing staff was second to none and they were always on hand to give that extra bit of help when needed. After completing my honours degree, I continued my studies to PhD level."

Mike Kinsella
**BACHELOR OF SCIENCE (HONS) IN**

**PHARMACEUTICAL SCIENCE**

**ENTRY REQUIREMENTS**
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

**RECOMMENDATION**
Applicants should note that a science subject (Biology, Chemistry, Physics with Chemistry or Agricultural Science) at Leaving Certificate is recommended for this programme.

**DURATION**
4 years

**POINTS 2018**
Min: 306
Range: 306 - 442

**COURSE LEADER**
Dr Claire Lennon
Email: clennon@wit.ie

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**What is Pharmaceutical Science?**
The pharmaceutical industry makes a vital contribution to society through the development and production of drugs such as antibiotics for infectious diseases, cancer treatment drugs and antiviral drugs for HIV. The pharmaceutical sector plays a vital role in Ireland’s economy with over 150 pharmaceutical companies. There is a strong demand for graduates qualified in pharmaceutical science and employment prospects are excellent.

**Course Aims**
This is a four year full-time honours degree aimed at preparing graduates for the pharmaceutical industry. Students will be exposed to a broad range of subjects and laboratory instrumentation relevant to the pharmaceutical industry. A research project is also carried out in year 4. The course also provides graduates with a range of transferable skills so that graduates are qualified for a wide range of science-based industries.

**Work Placement**
A six-month work placement is included in the third year of the course.

**Follow on Study**
MSc and PhD by research.

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**Career Opportunities**
A degree in pharmaceutical science will provide graduates with skills that are much sought after in a range of sectors including:
- Pharmaceutical & biopharmaceutical industries
- Quality control & quality assurance
- Laboratory analysis
- Research & development
- Education & teaching after completing a Professional Master of Education
- Food & drinks industry

**Research at WIT**
WIT lecturing staff teaching on this course are actively involved in a range of highly successful and well-funded research work related to pharmaceutical science. Collaborators include national and international universities and research institutes, and industrial partners from the pharmaceutical sector both in Ireland and abroad. Current research areas include: development of novel polymers for therapeutic drug delivery, biomedical research in eye treatment, novel analytical methods for pharmaceutical products, sensing devices for environmental analysis, biotechnology for drug synthesis and bioremediation.

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**COURSE OUTLINE**

**YEAR ONE**
- **SEMESTER ONE**
  - Introductory Biology
  - Introductory Chemistry
  - Introductory Physics
  - Introductory Mathematics
  - Introduction to ICT for Scientists
  - Good Laboratory Practice & Core Skills

**YEAR TWO**
- **SEMESTER THREE**
  - Organic Chemistry and Biomolecules
  - Spectroscopic Techniques
  - Physical Chemistry
  - Statistics for Scientists
  - Pharmaceutical Science
  - Laboratory Data Analysis and Presentation

- **SEMESTER FOUR**
  - Pharmaceutical Organic Chemistry
  - Chromatographic Techniques
  - Inorganic Chemistry
  - Environmental Science
  - Biopharmaceutical Science
  - Applied Mathematics for Scientists

**YEAR THREE**
- **SEMESTER FIVE**
  - Total Quality Management
  - Chromatographic Method Development and Validation
  - Pharmaceutical Biotechnology
  - Pharmaceutical and Natural Products
  - Manufacturing Production and Processing
  - Inorganic & Physical Chemistry

- **SEMESTER SIX**
  - Organic Chemistry and Advanced Spectroscopic Techniques
  - Sensors & Electroanalysis
  - Placement

**YEAR FOUR**
- **SEMESTER SEVEN**
  - Pharmaceutical Organic Chemistry IV
  - Advanced Analytical Science
  - Advanced Topics in Physical Chemistry
  - Research Methodology & Literature Review
  - Regulatory Affairs & Compliance
  - Advanced Laboratory Techniques

- **SEMESTER EIGHT**
  - Advanced Quality Methodologies
  - Pharmaceutical Formulation & Drug Delivery
  - Pharmacology, Drug Design & Synthesis
  - Advanced Inorganic & Photochemistry
  - Research Project (Double Module)

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**STUDENT VIEW**

“This course provided me with an in depth understanding of the core scientific disciplines. The large element of practical lab work helped to make the lecture material easy to understand and was excellent preparation for working in the pharmaceutical industry. The degree has a career orientated focus, and I found the industrial placement in year three very beneficial.”

Tracey Coady

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www.wit.ie

Waterford Institute of Technology SCIENCE & COMPUTING
BACHELOR OF SCIENCE (HONS) IN
AGRICULTURAL SCIENCE

ENTRY REQUIREMENTS
2 subjects: H5
4 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
4 years

POINTS 2018
Min: 403
Range: 403 - 589

COURSE LEADER
Dr Michael Breen
Email: mbreen@wit.ie
Tel: 051 302644

Course Aims
Agricultural Science is the application of science and other disciplines (e.g. business) to the production of quality food. It encompasses a range of services provided to farmers and food producers to ensure quality standards and profitable production systems.

The course prepares students for a career in agricultural science and agri-business. Graduates will have a strong background in the areas of science, food, agriculture, the environment, business and quality assurance. Self-management, team working, business awareness, problem solving, land management and communication are all areas which will be strongly incorporated into the main core of this level 8 programme.

Placement
In semester 6, students can choose between a farm placement or an industrial placement.

The Farm placement, organised by Teagasc, gives students experience of practical farming on a high quality farm and allows learners to gain a broad experience of farming and to apply and develop their knowledge and skills. The student will be monitored by the host farmer and by Teagasc staff and the student will keep a reflective work log. Students are also encouraged to seek placements overseas e.g. New Zealand and the UK.

The Industrial Placement allows learners to apply and develop their skills in the agri-food industry. The placement is designed to meet the needs of industry whilst providing the student with a broader skills-base. The practical element of employment will complement the course content and help develop skills that are essential in today’s work environment. Students will be placed for work experience for a minimum of 15 weeks during semester 6. The industrial placement will be organised by WIT and monitored by the employer, WIT staff with the student keeping a reflective work log.

Career Opportunities
- Senior technical positions in Quality Control in Agri-food industries
- Sales and marketing in agri-businesses
- Technical personnel in organisations offering environmental and other services to farmers
- Startup agriculture-based businesses
- With further qualifications, graduates are qualified to teach Agricultural Science, work in farm advisory services and follow postgraduate studies.

Kildalton College
Students on this course take nine modules at Kildalton College of Agriculture. Transport is provided.

STUDENT VIEW
“I won the Dairymaster Student Award and got the opportunity to spend the six month work placement in New Zealand on a dairy farm which was one of the highlights of my studies at WIT. I would recommend any student with a keen interest in agriculture and in particular the science aspect to consider this course.”

Robert Tobin
BACHELOR OF SCIENCE IN
AGRICULTURE

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

ADVANCED ENTRY
Students who have successfully completed a Level 6 QQI-FET (FETAC) approved course at Kildalton College or equivalent can apply to transfer into Year 2 of the BSc in Agriculture.

DURATION
3 years

POINTS 2018
Min: 367
Range: 367 - 601

Farm Placement
In the second year of the course students spend 12 weeks on farms specially chosen by Teagasc in order to get practical experience on high quality commercial farms. A number of students choose to travel overseas for farm experience e.g. New Zealand.

Career Opportunities
- Managers of modern farm enterprises
- Managers in Agri-Food cooperatives
- Managers in Meat processing plants
- Sales positions in Agribusiness

Follow on study
BSc (Hons) in Land Management in Agriculture - WD156

Course Aims
Agriculture is of major importance to the Irish economy and most farms are family-operated with the farmer being the owner and manager and operator.

The first two years of the course concentrates on equipping the student with the knowledge and skills needed to manage a modern commercial farm. The third year aims to expand the student’s business, managerial, scientific and IT skills.

Stamp Duty Exemption
This course fulfils the requirements for stamp duty exemption or land transfer for farmers (Green Cert.)

Kildalton College
Students take agriculture-based modules at Kildalton Agricultural College and scientific related modules are taken at WIT. A free bus service operates between WIT and Kildalton.

Course Outline

YEAR ONE

SEMIESTER ONE
Introduction to Farm Accounts
Plant Biology
Communication Skills
Computer Applications
Mechanisation & Safety
Animal Breeding & Welfare

SEMIESTER TWO
Chemistry for Land Sciences
Agriculture in the Economy
Animal Biology
Animal Production
Agricultural Mechanisation
Tillage Crop Production

YEAR TWO

SEMIESTER THREE
Environmental Science
Crop Technology
Dairy Production
Cattle Production
Agricultural Soils Management
Sheep Production
Mechanisation

SEMIESTER FOUR
Placement

YEAR THREE

SEMIESTER FIVE
Agriculture and Environment
Food Analysis & Animal Feed Biotechnology
ICT & Business Writing
Marketing for Small Business
Business Management
Farm Buildings
Fabrication

SEMIESTER SIX
Quality Food Production
Food Safety Management Systems
Agricultural Entrepreneurship
Financial Management Systems
Project Research & Design
Farm Business

Student View
"How close-knit WIT is and the smaller class sizes means that everybody gets to know each other so well. The practical work was very hands on and we did things such as grass walks, machinery identification, feed and grass knowledge, animal assessments and tractor driving. Going to college in Waterford was a great experience and I would highly recommend it."

John Waters
**BACHELOR OF SCIENCE IN**

**FORESTRY**

<table>
<thead>
<tr>
<th>ENTRY REQUIREMENTS</th>
<th>ADVANCED ENTRY</th>
<th>DURATION</th>
<th>POINTS 2018</th>
<th>COURSE LEADER</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 subjects: O6/H7</td>
<td>Graduates of the Teagasc QQI-FET (FETAC) Level 5 Certificate in Forestry or QQI-HET (FETAC) Level 6 Advanced Certificate in Forestry may apply directly for entry onto the BSc in Forestry (WD076).</td>
<td>3 years</td>
<td>Min: 215</td>
<td>Tom Kent</td>
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<tr>
<td>English or Irish: O6/H7</td>
<td>Mathematics: O6/H7</td>
<td></td>
<td>Range: 215 - 601</td>
<td>BAgrSc (Forestry), MSIF</td>
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<td></td>
<td>Email: <a href="mailto:tkent@wit.ie">tkent@wit.ie</a></td>
<td>Tel: 051 302646</td>
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**ENTRY REQUIREMENTS**
- 5 subjects: O6/H7
- English or Irish: O6/H7
- Mathematics: O6/H7
- Foresters may apply to be placed on the Forest Service register of Approved Foresters.

**ADVANCED ENTRY**
Graduates of the Teagasc QQI-FET (FETAC) Level 5 Certificate in Forestry or QQI-HET (FETAC) Level 6 Advanced Certificate in Forestry may apply directly for entry onto the BSc in Forestry (WD076).

**DURATION**
- 3 years

**POINTS 2018**
- Min: 215
- Range: 215 - 601

**COURSE LEADER**
- Tom Kent
- BAgrSc (Forestry), MSIF
- Email: tkent@wit.ie
- Tel: 051 302646

**What is Forestry?**
Forestry is the study of forests as a natural resource. Forests are an important part of the environment, provide timber and other products and are used for a wide range of recreation activities. The role of foresters is to manage forests so that people can benefit from this natural resource on a sustainable basis. Foresters may work with landowners in planting new forests, manage existing forests or work with sawmills in harvesting and supplying timber.

**Course Aims**
The course is professionally accredited by the Society of Irish Foresters. Graduates may apply to be placed on the Forest Service register of Approved Foresters.

**Career Opportunities**
BSc in Forestry graduates are widely employed in the Irish forest sector:
- State Bodies: Coillte, Teagasc, Forest Service, Department of Agriculture, Food and the Marine
- Forest Management Companies: Forest Enterprises Ltd., Forestry Services, SWS Forestry, Western Forestry Cooperative Society, Green Belt, The Forestry Company, Irish Forest Unit Trust, Irish Wood Producers
- Sawmills: Laois Sawmills, Murrays Timber Group

Graduates have also found professional employment in the UK, Australia and Canada.

**Fieldwork & Placement**
Fieldwork and field trips are an essential element of the course and 25% to 50% of each module consists of fieldwork elements. Fieldtrips are used to apply technical skills, demonstrate forest operations and processes, gather information for analysis and meet professionals in their working environment. Locations include Coillte and private forests, wood processing industries and JFK Arboretum. All students undertake a company placement in semester 4 and placements may be organised in other countries. All students will carry out a forest management plan of Lismore Estate in third year, involving extensive fieldwork in mapping, inventory, valuation and forest operation, protection and management planning.

**Follow on Study**
BSc (Hons) in Land Management in Forestry - WD157

WIT Forestry also has transfer links with DN271 - the Bachelor of Agricultural Science (Forestry) degree, UCD; and honours degrees in forestry at University of Aberdeen, Scotland; University of the Highlands & Islands, Scotland and Master’s degrees in forestry at University of Wales, Bangor.

**COURSE OUTLINE**

**YEAR ONE**

<table>
<thead>
<tr>
<th>SEMESTER ONE</th>
<th>SEMESTER TWO</th>
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</thead>
<tbody>
<tr>
<td>Plant Biology</td>
<td>Forest Surveying &amp; Mapping</td>
</tr>
<tr>
<td>Forest Establishment</td>
<td>Fundamentals of Forestry</td>
</tr>
<tr>
<td>Mechanisation &amp; Safety</td>
<td>Wood Science</td>
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<tr>
<td>Dendrology</td>
<td>Earth Science</td>
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<tr>
<td>Mathematics for Forestry</td>
<td>ICT for Forestry</td>
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<tr>
<td>Information &amp; Communication Technology for Forestry</td>
<td>Chemistry for Land Scientists</td>
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**YEAR TWO**

<table>
<thead>
<tr>
<th>SEMESTER THREE</th>
<th>SEMESTER FOUR</th>
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<tbody>
<tr>
<td>Timber Technology</td>
<td>Placement</td>
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<tr>
<td>Forest Measurement</td>
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<td>Forest Protection</td>
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<td>Forest Soils</td>
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<tr>
<td>Forestry &amp; the Environment</td>
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<tr>
<td>Applied Geographical Information Systems</td>
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</table>

**YEAR THREE**

<table>
<thead>
<tr>
<th>SEMESTER FIVE</th>
<th>SEMESTER SIX</th>
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<tbody>
<tr>
<td>Forest Economics</td>
<td>Plantation Silviculture</td>
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<tr>
<td>Sustainable Forest Management</td>
<td>Commercial Forestry Practices</td>
</tr>
<tr>
<td>Principles of Silviculture</td>
<td>Forest Engineering</td>
</tr>
<tr>
<td>Forest Inventory</td>
<td>Small Enterprise Management</td>
</tr>
<tr>
<td>Forest Harvesting</td>
<td>Forest Management Plan</td>
</tr>
</tbody>
</table>

**STUDENT VIEW**

“The course is both practical and scientific and the course subjects are very relevant to the industry. If this forestry course did not exist in the South East I would not have a job today. The course gave me a good general background to the Irish forest industry and through course work, projects, reports and especially deadlines I found that the course prepared me well for my working life. Without doubt my favourite element of the course was the regular forestry related field trips.”

Kevin Power
BACHELOR OF SCIENCE IN
HORTICULTURE

Waterford - Kildalton College (WD096)
Dublin - National Botanic Gardens (WD097)

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
3 years

POINTS 2018 - KILDALTON (WD096)
Min: 206
Range: 206 - 432

POINTS 2018 - DUBLIN (WD097)
Min: 240
Range: 240 - 544

ADVANCED ENTRY
Students who have successfully completed a QQI-FET (FETAC) approved Level 6 award and who successfully complete bridging studies, can apply to transfer into Year 2 of the BSc in Horticulture. Older awards will be mapped to the level of new awards, along with experience, in order to assess entry onto the BSc in Horticulture.

COURSE LEADER
Dr Cara T. Daly
Email: cdaly@wit.ie

What is Horticulture?
Horticulture is a very diverse industry and career opportunities exist in a wide variety of areas, from producing plants for garden centres, working on golf courses, landscaping, through to fruit and vegetable production. Many horticulturists are managers or self-employed and need business as well as horticultural skills.

Course Aims
This is a three year full-time course designed to train professional horticulturists. The course is run in conjunction with Teagasc. Students can choose to study in Waterford at WIT and Teagasc, Kildalton College OR they can study in Dublin at the Teagasc College in the National Botanic Gardens. There are separate CAO codes for the Waterford and Dublin locations.

Careers Opportunities
- Employment as gardeners in public parks and grounds
- Landscape design
- Landscape construction
- Greenkeeping - maintenance of golf courses and sports fields
- Nursery stock production
- Garden maintenance contractors

Kildalton College - WD096
Students on this course study both at WIT and at Kildalton College, Piltown. The laboratory-based scientific and business modules are taken at WIT and the horticulture-based modules are taken at Kildalton. A free bus service operates between Kildalton and WIT.

National Botanic Gardens - WD097
Students on this course will be based in the Teagasc College at the National Botanic Gardens, Glasnevin, Dublin 9.

Placement
In year 2, one semester is spent on placement either in Ireland or abroad. This is an opportunity for you to see and implement the key horticultural skills you have learnt in college.

Follow on Study
BSc (Hons) in Land Management - WD158

COURSE OUTLINE

YEAR ONE

SEMINAR ONE
Communication Skills and Computer Applications
Horticulture Skills 1
Plant Biology
Plant Knowledge 1
Plant Protection
Sat and Growing Media

SEMINAR TWO
Chemistry for Land Scientists
Horticulture Building Construction
Horticulture Mechanisation and Safety
Horticulture Skills 2
Plant Knowledge 2
Plant Propagation

YEAR TWO

SEMINAR THREE
Biodiversity and Horticulture
Financial Analysis for your Business
Garden Management and Plant Selection
Sustainable Food Production
Landscape Design
Nursery Stock Production
Sporturf Science
Lab Skills for Plant Micro-Propagation (Waterford Only)

SEMINAR FOUR
Placement
Note: Students who have already undertaken placement as part of their previously completed qualification, will be required to complete 6 other modules.

YEAR THREE

SEMINAR FIVE
Horticulture Sales and Marketing
Introduction to Scientific Writing and Data Analysis
Managing your Business
People Management
Landscape Design
Nursery Stock Production
Sporturf Science
Sustainable Food Production
Lab Skills for Plant Micro-Propagation (Waterford Only)

SEMINAR SIX
Arboriculture
Horticulture Project and Seminar
Law for Horticulturists
Tax for Horticulture
Field Crop Production
Garden Centre Operations
Greenkeeping
Landscape Design Advanced
Plants and Society

Level 1
Beekeping and Pollination Studies
Computer Aided Design
Interior Landscaping and Floristry
Protected Crop Production
Social and Therapeutic Horticulture

STUDENT VIEW
“T have a good grounding from studying in WIT and left capable of being placed in a huge diversity of jobs. We spent about half of our time in Kildalton College and were able to put the theory to the test, which is extremely important when you leave the safety of college and start in the real world. Try everything offered to you and relish any experience you can get, and remember Horticulture is too broad a topic for anyone to ever be a complete expert in, but find your niche in the industry, then get the experience.”

Paul Smyth
**STUDENT VIEW**

“...I found the year challenging but extremely interesting. Setting up and running the final year project was the highlight for me...it has encouraged me to progress further into research.”

William Burchill
Course Aims
This is a four-year full-time programme, and will prepare you for an exciting career in software development with specialisms in one of Automotive and Automation Systems, Cloud and Network Computing, Computer Forensics and Security, Game Development, Media Development or the Internet of Things. This is the longest running degree programme in WIT and our graduates are amongst the most sought-after computing graduates nationally.

Why is Applied Computing important?
If you are interested in software development, but are unsure as to where you would like to specialise, then Applied Computing is for you. You will learn about the basics of computing/software development, and then decide which of the specialisms you think best suits your personal interests, strengths and plans. Through the use of specialist streams, we can quickly react to industry trends, while always ensuring that you will become a strong programmer/software developer.

Subject Areas
In year 1 there is a strong focus on programming fundamentals (including web development) to provide you with a solid background for later years. You will study mathematics and physics so as to understand the fundamentals of computer science. You will be also introduced to fundamental computing concepts. In years 2, 3, and 4 you will take a specialism or ‘stream’. The final year project will give you the opportunity to apply your skills to a real world application. To learn more about Applied Computing (Common Entry) please visit www.wit.ie/wd001.

Career Opportunities
- Software Developer
- Applications Programmer
- Game Developer
- Embedded Software Engineer
- Cyber Security and Forensics Engineer
- Automotive Systems Software Engineer
- Software Engineer
- Big Data Developer
- Media Developer

Unique Features
If you know that you are interested in computing and in programming/software development but are not fully sure as to your strengths and/or interests, then this is the programme for you.
- Choice of specialism after first year when you will know more about those strengths/interests;
- Have unrivalled employment prospects; most students have job offers before they sit their final year examinations.

In particular, as a graduate of this programme, you will:
- Have excellent programming skills;
- Be an excellent problem solver

Follow on Study
Postgraduate programmes in WIT, such as the MSc in Computing (Enterprise Software Systems), or elsewhere. Many Applied Computing graduates go on to complete research masters and PhDs at our European Centre of Research Excellence, TSSG (below), and elsewhere.

Netlabs Integrated Research Building, West Campus
### Applied Computing (Common entry)

**COURSE & DEGREE OPTION OUTLINES**

#### Core Subject Areas

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<td>Data Structure &amp; Algorithms 1</td>
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<tr>
<td>MATHEMATICS &amp; PHYSICS</td>
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#### Degree Option

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<td>Network Theory</td>
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<tr>
<td>MEDIA DEVELOPMENT</td>
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#### Year One

**YEAR ONE**

- **Semester One**
  - Programming Fundamentals 1
  - Website Development 1
  - Computer Systems 1
  - The Computer Industry
  - Discrete Mathematics

- **Semester Two**
  - Programming Fundamentals 2
  - Web App Development 1
  - Computer Systems 2
  - Applied Calculus
  - Physics 1

- **Semester Three**
  - Data Structure & Algorithms 1
  - Relational Databases
  - Computer Networks
  - Mathematical Methods

- **Semester Four**
  - Data Structure & Algorithms 2
  - Applied Cryptology
  - Statistics & Probability

#### Year Two

**YEAR TWO**

- **Semester Three**
  - Professional Communications
  - Networks Infrastructure
  - Network Theory

- **Semester Four**
  - Secure Programming and Scripting
  - Forensic Accounting & Fraud Auditing

#### Year Three

**YEAR THREE**

- **Semester Five**
  - Web App Development 2
  - NoSQL Databases
  - Developer Operations
  - Professional Practice

- **Semester Six**
  - Mobile App Development 2
  - Distributed Systems
  - Data Mining 1
  - Project 1

#### Year Four

**YEAR FOUR**

- **Semester Seven**
  - Mobile App Development 2
  - Distributed Systems
  - Data Mining 2
  - Project 1

- **Semester Eight**
  - Functional Programming
  - The Connected Car
  - Free Elective

- **Semester Seven Electives**
  - Automotive Software Development
  - Advanced Driver Assistance Systems
  - Cloud Computing 1
  - Network & System Security
  - Criminal Evidence
  - Free Elective

- **Semester Eight Electives**
  - Automotive Option
  - Electronics Option
  - Game Development in C++
  - Mobile Game Development
  - Free Elective

- **Semester Seven Electives**
  - Free Elective
  - Emerging Media Technologies
  - Free Elective

*Course outline is subject to change.*
BACHELOR OF SCIENCE (HONS) IN
APPLIED COMPUTING
(AUTOMOTIVE & AUTOMATION SYSTEMS)

ENTRY ROUTE
WD001: Applied Computing (Common entry)

What is Automotive & Automation Systems?
The rising popularity of autonomous vehicles, hybrid and electric power trains, vehicle-to-cloud connectivity and ride-sharing schemes are currently altering our concept of mobility and our relationship with the car. Automotive software engineers are leading the development of these exciting innovative technologies which will have a profound effect on society.

Similarly, high-tech industries are embracing new smart manufacturing technologies whereby industrial systems can communicate and cooperate to improve efficiency. Software control and configuration of manufacturing and robotic processes increases flexibility, reduces waste and energy use and improves product quality.

The Automotive & Automation Systems option gives you the specialist knowledge and practical skills required for a rewarding career in the automotive and automation sectors. Both Irish-based and international companies are urgently seeking skilled graduates who are able to create innovative software solutions for these industry sectors.

Course Aims
This course will equip you with the concepts and practical skills needed to specify, design, develop, integrate and test a wide range of networked embedded systems that monitor their environment using sensors and then process this sensor data to effect changes in the controlled system, which could be, for example, a car engine, an autonomous vehicle path, a climate control system, a robotic assembly line or a manufacturing operation.

Subject Areas

Unique Features
Through ongoing collaboration with industrial partners, students gain access to state of the art tools, processes and technologies used in this sector, covering a range of topics such as embedded software development, driver assistance systems, industrial automation, and automotive software design. This knowledge and skillset are not only sought after in the automotive and automation industries, but also in aerospace, medical and other embedded software engineering environments.

Career Opportunities
Students of this course have worked in the following roles in Ireland, Germany, UK and China:
- Automotive software developer
- Automotive software integration specialist
- Automotive software team manager
- Vehicle networking specialist
- Formula 1 racing car control system engineer
- Hybrid vehicle motor control software developer
- Climate Control System software developer
- Fleet management software team leader

Opportunities for Further Study
There is a possibility of doing M.Sc. or Ph.D. research at the Automotive Control Group in WIT (www.wit.ie/automotive).

STUDENT VIEW

“...The Automotive and Automation Systems stream provided me with the necessary skills and hands-on industry experience to enable me to get the job I wanted. If you have an interest in low level programming, hardware and automotive technology then this is the stream for you.”

Kieran Sinnott – Automotive Software Engineer with Schrader Electronics Ltd., Co. Antrim
Why is Cloud and Network computing important?
We live in an increasingly connected society whether it is through social media, content streaming, online purchases or businesses managing their supply chain. Such connectivity needs to be managed and optimized, and is increasingly done using cloud computing architecture. YouTube and Netflix for example, rely on people with skills in this area.

Course Aims
The Cloud & Networks option will develop a strong underlying knowledge of how network communications and Cloud infrastructure is designed, implemented and managed. Students will work with the latest technologies from leading companies such as Amazon, Cisco, Red Hat and IBM. Graduates who are able to configure, manage and troubleshoot applications and services in Cloud based systems are in high demand across many domains.

Students will learn how to configure reliable, fault-tolerant, secure Cloud infrastructure systems using popular environments such as Amazon Web Services and Google Cloud Platform. Students will take some modules from the Security stream to develop the essential skills required in modern Cloud environments.

Career Opportunities
Graduates who are able to configure, manage and troubleshoot applications and services in Cloud based systems are in high demand across many domains. Recent graduates are eagerly sought after by many local companies such as Red Hat, Errigal, Done Deal, Routematch, Sun Life Financial Services to name but a few.

Follow on study
Many graduates of this stream subsequently undertake the taught MSc in Computing (Enterprise Software Systems), however as graduates will have developed a highly sought after Cloud technologies skillset, many choose to undertake this programme in part-time mode. This programme has been developed in a modular design and the flexibility facilitates part-time students taking modules over a number of years.

Other graduates have opted to undertake research Masters and PhD career paths both locally, within WIT’s TSSG research center, and beyond.

Stephen believes that the programme’s biggest strength is the final year project. He comments that the course is so well-designed that by fourth year, each student is in a position to create something of genuine value - and not just in an educational setting.” In fact, Stephen’s project was sponsored and mentored by RedHat (www.redhat.com). This gave him access to professional software developers for advice on the project. Since finishing his degree, Stephen is working with RedHat Waterford as an Associate Software Engineer.

Stephen Coady
Course Aims
The BSc (Hons) in Applied Computing (Computer Forensics & Security) is a computer science degree with a specialism in the securing, monitoring and investigating of computers, digital devices and data. It also covers programming, computer networks, operating systems and web technologies. It allows you to investigate, decode and decipher the digital world in which you live.

Why is Computer Forensics and Security important?
People generate vast amounts of data every day with each person leaving a digital footprint across the web. Your data is used by companies to sell you products and to see what you are interested in. Your data is also used by hacktivists, cyber criminal gangs and different states that are engaged in a cyberwar and information war with these companies and with each other. Understanding this area allows you to protect everything in your life, such as family, friends, energy, money, transport, even the food and water you consume.

Subject Areas
Year 1: You develop an understanding of the need for security and forensics, and where these fit in the modern world.

Year 2: You delve deeper into the areas of cryptography, data recovery and fraud. You learn how programming vulnerabilities lead to the exploitation of devices and data.

Year 3: Advances your skills in penetration testing, ethical hacking, responding to attacks, conducting network investigations, python scripting, cloud services and law while you are prepared to spend the second half of year 3 in industry or abroad on an Erasmus programme.

Year 4: In your final year there is also a focus on emerging and mobile devices, online investigations, data mining and acting as an expert witness.

Unique Features
Students will learn how data works at a low level, how it is stored and accessed on any digital device, what happens when you press File>Save As at the level of 1’s and 0s’. Students will discover how to keep data secure, safe and encrypted. In addition, students will be able to sniff packets from a computer network and look inside them or analyse where the traffic on the network is going, and what it is doing.

Students will examine websites and applications to see how they are vulnerable to attack and will learn how to ethically hack and perform penetration tests on computer systems. Furthermore, students will learn how to use open-source intelligence techniques to ethically find out information about people online and to investigate digital devices such as phones or Internet of Things devices.

This programme differs from the BSc (Hons) in Computer Forensics & Security by an emphasis on Physics rather than Operating Systems.

Career Opportunities
- Anti-Malware Analyst
- Information Security Specialist
- Network Security Specialist
- Data Analyst
- Cybersecurity Software Engineers

Follow on Study
Students who complete the BSc (Hons) in Applied Computing (Computer Forensics & Security) may avail of taught Masters programmes in the area. Also, the unique knowledge and skill set in this course would allow you to pursue postgraduate research opportunities at MSc and PhD level.

The Computer Forensics and Security degree being offered at WIT was for me, an amazing opportunity to become educated in the real world application of technologies across all aspects of digital forensics and incident response management. Attending Cyber Crime Conferences has provided me with a greater understanding of the complexities and culture of cyber security and has rubber stamped the importance of education in this growth area. This degree course has something for everyone, offering unique insights into a fascinating world.

Judy O’Brien

STUDENT VIEW

The Gallery and Walton Building, Cork Road Campus
What is the Internet of Things?
Use your voice to play music, buy tickets or reserve a table at your favourite restaurant. Control your home heating or open your front door for a parcel delivery from anywhere in the world using your smart watch. These are example applications of the Internet of Things. The Internet of Things (IoT) involves connecting any device to the internet; enabling them to communicate with people, applications, and other devices. This includes everything from mobile phones, washing machines, headphones, lamps, cars and almost anything you can think of.

The BSc (Hons) in Applied Computing (Internet of Things) will give you the knowledge and skills required to connect devices and build smart cities, smart environments, smart agriculture as well as industrial applications, security & emergency operations, health monitoring and home automation.

Course Aims
Be a programmer and a maker! Be a hacker and a creator! This course aims to place you in a unique position - top class programming abilities combined with a solid understanding of how electronic devices work and connect to the internet. You will be equipped with the knowledge and skills required to build the internet services and devices of the future!

Subject Areas
The subjects you will study are based on the 6 subject areas that are critical to IoT; Programming, Data Science, Devices and Electronics, Networks and Cloud, Mathematics, and Project.

Unique Features
The course has a strong focus on practical collaboration and experimentation. You will do a Project module in every year of the course where you will design and build your own IoT applications. By the end of the course you will have a portfolio of projects that showcases your skills and ability to potential employers. Furthermore, the course team encompasses expertise from the WIT research community active in the IoT domain. In particular, the combined expertise of research teams at Telecommunications Software & Systems Group (TSSG), Automotive Control Group (ACG) and Convergent Technologies Research Group (CTRG) have strongly influenced the course and researchers from these groups are part of the delivery team.

Career Opportunities
You will have career opportunities across a range of employers in various sectors, from Irish based start-ups in agritech to large multinationals in smart healthcare. Some example career roles that are available include:
- Software developer/engineer (Internet of Things)
- Internet of Things integration specialist
- Product developer
- IoT networking specialist
- IoT project manager

Opportunities for Further Study
Successful completion of the BSc (Hons) in Applied Computing (Internet of Things) will give you opportunity to apply to several MSc courses both at Waterford Institute of Technology (such as the MSc in Computing (Enterprise Software Systems)) and other third level colleges. Also, the unique knowledge and skill set in this IoT course will enable you to apply for MSc by research or PhD in several research groups in Engineering and Computing.

STUDENT VIEW

“I found WIT was the only institution currently offering an undergrad degree in IoT so I moved to Ireland to study. Having completed my first year, I am thrilled with the result. 1st Year is an excellent balance of theory and practical, covering a wide spectrum of necessary topics; Maths, Physics, Programming and Electronics to name a few, which are all taught by very approachable instructors. Also, through an instructor’s connection, I had a summer internship with a USA tech company as their only 1st year graduate. I highly recommend the program!”

Jonathan Gillespie
**Course Aims**

Game developers design and create video games for computers and mobile devices. In this stream, students will develop a portfolio of playable games and game prototypes using high-level game development tools such as Unity and Unreal Engine. In addition, they will develop proficiency in high-performance game development using industry-standard languages such as C++, C#, and JavaScript.

Genres of games which students will develop include 2D side-scrolling platformers, first-person shooters and survival games in 2D/3D. Students will develop skills to enable them to create games ranging in technical complexity from indie and casual games up to AAA high-end commercial games.

**Subject Areas**

In Year 1 you will start to create 2D platformer or side-scrolling games using C#. In year 2, you will create 3D assets as well as 3D games, and you will also learn how to design a successful game through game design. In Year 3, you will be introduced to C++ for games, and also run a small size game development project where you will need to combine (and plan for) the necessary resources for your game.

Year 3 contains a flexible semester, where you may opt for a work placement with a relevant company, giving you real-world industry experience. Other options include studying abroad or engaging in volunteer work. In Year 4, you will strengthen your C++ programming skills, develop mobile games, and create more advanced 3D games.

**Unique Features**

This stream provides strong practical skills in terms of game development and game production. You will learn all the skills expected of a game developer, such as proficiency in C# and C++, project management, resource and assets management, a good understanding of game design, experience in developing 2D and 3D games, the ability to pitch and promote a game and to document its creation, and you will also create your own portfolio and demos that you will be able to show to future employers.

**Career Opportunities**

- Game Developer
- Game Designer
- Game Animator

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**STUDENT VIEW**

“I returned to college as a mature student having undertaken a level 5 FETAC course, which was a daunting experience. I had an interest in game design but also science. Since graduating I have found employment in a virtual reality company here in Waterford where we create experiences like the Apollo 11 and build platforms such as Oculus Rift and HTC vive.”

**Bill O’Keeffe**
What is Media Development?
The Media Development path is chiefly concerned with user experience and the presentation of information in a pleasing and efficient manner – sometimes, form is functionality. Humans interact with computer systems and media through a variety of means; web, mobile apps, desktop, etc. This coincides with the exponential growth of mixed media mechanisms such as YouTube, Podcasting, streaming, etc.

If you’re a creative person interested in learning the technical skills needed to make high-quality content for the Internet then Media Development is the path you’re searching for.

Course Aims
An increasing number of IT professionals must be competent in areas of design and media. This means having a working knowledge of audio/visual creation, editing and manipulation tools; a strong sense of User Experience and literacy with current design trends. The professional must be able to apply the digital media knowledge back to traditional forms of computing. This course melds the general content of Applied Computing, with aspects of creative media.

Subject Areas
- Sound and Video recording and editing
- Design
- User Experience
- Scriptwriting
- Programming
- Internet media standards

Unique Features/Work Placement
Practical results are at the heart of the media development stream. You will learn to create higher quality audio/visual assets as you move through the semesters. Upon graduation, you will have an impressive media portfolio that demonstrates your skills and creativity. Many of the projects you’ll undertake will be industry-driven, following on our strong links with broadcast media outlets, content creators, IT companies and web-based organisations.

Career Opportunities
Two business areas that have experience consistent growth over the past twenty years are computing and media. BSc (Hons) in Applied Computing (Media Development) would qualify you for a number of roles such as App Developer, In-House Editor, User Experience (UX) Designer, Web programmer and other roles that haven’t even been invented yet!

Follow On Study
Successful completion of the BSc (Hons) in Applied Computing (Media Development) will give you opportunity to apply to several MSc courses both at Waterford Institute of Technology (such as the MSc in Computing) and other third level colleges and universities. Also, the strong media skillset combined with general computing expertise would allow you to pursue postgraduate research opportunities at MSc of PhD level.
# Bachelor of Science (Hons) in Computer Forensics & Security

**Entry Requirements**
- 2 subjects: H5
- 4 subjects: O6/H7
- English or Irish: O6/H7
- Mathematics: O3/H7

**Duration**
- 4 years

**Points 2018**
- Min: 288
- Range: 288 - 511

**Course Aims**
As a student of Ireland’s longest running undergraduate degree in the area of Computer Forensics and Security you will develop a strong underlying knowledge of how data, storage and communications work down to bit level. You learn how to secure data and technologies and how to investigate these when things go wrong.

**Why is Computer Forensics and Security important?**
Students who undertake this course will become aware of the value of data in storage and in transit and the need for security. When reconstructing what has happened on a digital device, they are able to adapt to the use of new tools to aid in their analysis.

You will explore issues relating to system and network security as well as ethical hacking techniques for penetration testing. You will learn how to respond to a suspicious incident and the importance your actions can have. You will also learn how to collect and examine network data for types of evidence as well as to generate statistical, session and alert information. Being a strong programmer helps with skills such as secure software development and reverse engineering. Modules in law and business help prepare you for working in a range of roles that you may pursue as a career.

**Subject Areas**

### Year One
- Semester One
  - Programming Fundamentals 1
  - Website Development 1
  - Computer Systems 1
  - Discrete Mathematics
  - Physics 1
  - The Computer Industry

- Semester Two
  - Programming Fundamentals 2
  - Web App Development 1
  - Computer Systems 2
  - Applied Calculus
  - Intro to Security & Forensics
  - Creative Problem Solving

### Year Two
- Semester Three
  - Data Structure & Algorithms 1
  - Relational Databases
  - Computer Networks
  - Mathematical Methods
  - File Systems Forensics
  - Operating Systems

- Semester Four
  - Data Structure & Algorithms 2
  - Software Eng. Practice
  - Applied Cryptography
  - Statistics & Probability
  - Secure Prog. & Scripting
  - Forensic Acc. & Fraud Audit

### Year Three
- Semester Five
  - Web App Development 2
  - NoSQL Databases
  - Developer Operations
  - Professional Practice
  - Network Forensics
  - Legal Principles of Computer Forensics

- Semester Six
  - Learning Portfolio – Flexible Semester
  - Ind. Placement
  - OR Study Abroad
  - OR Professional Cert.
  - OR Voluntary Organisation Project

### Year Four
- Semester Seven
  - Mobile App Development 1
  - Data Mining 1
  - Distributed Systems
  - Project 1
  - Network Systems & Security
  - Criminal Evidence

- Semester Eight
  - Free Elective
  - Data Mining 2
  - Project 2
  - Device Forensics
  - Online Forensics

### Follow on Study
Students who complete the BSc (Hons) in Computer Forensics & Security may avail of taught Masters programmes in the area. Also, the unique knowledge and skill set in this course would allow you to pursue postgraduate research opportunities at MSc and PhD level.

**COURSE LEADER**
John Sheppard BSc
Email: jsheppard@wit.ie
Tel: 051 302073

**STUDENT VIEW**

“I am extremely grateful for everything I have done, learned and the friends I have made over the last four years while enrolled on the BSc (Hons) in Computer Forensics & Security degree. I feel that everything I have studied has really prepared me for working in the industry as I go forward. This degree has given me the opportunity to work in a field that is exciting and at the cutting edge of technology.”

David Walsh

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www.wit.ie
Course Aims

The aim of this programme is to enable students to develop software with the most modern methods of software technology for all areas of application.

On completion of the programme, students will have the skillset necessary to become competent software developers and business analysts; and students will have the necessary skills and knowledge to meet the needs of today’s software industry. The course will also equip the student with the other skills required to work in the software systems industry, including the ability to work as part of a development team, and the ability to work with the system user through all stages of system development.

Why is Software Systems Development important?

People, and businesses such as Google, Facebook and Amazon, generate vast amounts of data every day with each person leaving a digital footprint across the web. This programme will produce software developers, who can manage this data for businesses to give them a competitive advantage, by equipping them with core skills in data science and information systems allied to excellent software development skills. This programme provides you with the opportunity to become a well-rounded software developer with an opportunity to specialise in one of Technology Commercialisation, Psychology, or a European language. There is a demand for high quality software developers with multi-disciplinary skills.

Subject Areas

In year one there is a strong focus on programming and website fundamentals to provide you with a solid background for later years. You will be also introduced to software engineering concepts, and fundamental computing concepts using Raspberry PI’s for example. In years 2 and 3 you will study specialist modules in mobile and web app development, database systems, and information systems. More on subject areas at www.wit.ie/wd151.

Unique features

Students will specialise in a multi-disciplinary area of their choice. Technology Commercialisation focuses on creating new technology products to meet customer needs. The aim of the Psychology stream is to use the principles of psychology as an objective means of studying human behaviour and apply this within an IT context. The French and German streams aim to enhance the linguistic and cultural knowledge of students.

In year 3 you have the option to complete work placement or study abroad. Studying abroad has become a popular choice for all our students especially those who have chosen the European language elective.

Follow on Study

Graduates from this programme can transfer into the final year of the BSc (Hons) in Software Systems Development - WD210.

STUDENT VIEW

Currently working in Red Hat, a Waterford-based software company, Laura speaks highly of her lecturers. “My course lecturers were very active in engaging with prospective employers in order to give students the best opportunity to start their careers.” Laura cites her Erasmus experience as the highlight of her studies.

Laura Fitzgerald
Course Aims
The programme is designed to equip you with the skillset required to work in an array of computing roles in industry. You will develop secure software with the most modern methods of software technology for all areas of application, and you will have the ability to analyse, select, and utilise appropriate emerging technologies for the development of a software solution. You will be able to store, manage and mine data for businesses, and to develop systems to enable organisations to extract value from such data.

Why is Software Systems Development important?
People, and businesses such as Google, Facebook and Amazon, generate vast amounts of data every day with each person leaving a digital footprint across the web. This programme will produce software developers, who can manage this data for businesses to give them a competitive advantage, by equipping them with core skills in data science and information systems allied to excellent software development skills. This programme provides you with the opportunity to become a well-rounded software developer with an opportunity to specialise in one of Technology Commercialisation, Psychology, or a European language. There is a demand for high quality software developers with multi-disciplinary skills.

Follow on Study
Postgraduate programme in WIT, such as the MSc in Computing (Enterprise Software Systems) or the MSC in Computing (Information Systems Processes) or elsewhere. Many Software Systems Development graduates go on to complete research masters and PhDs.

Subject Areas
In year one there is a strong focus on programming and website fundamentals to provide you with a solid background for later years. You will be also introduced to software engineering concepts, and fundamental computing concepts using Raspberry Pi’s for example. In years 2, 3, and 4 you will study specialist modules in mobile and web app development, database systems, business analytics, information systems and computer security. More on subject areas at www.wit.ie/wd210.

Unique features
Students will specialise in a multi-disciplinary stream of their choice. Technology Commercialisation focuses on creating new technology products to meet customer needs. Students will be exposed to lean analytics and metrics which will guide their decision making in understanding the commercial viability of a new technology.

The aim of the Psychology stream is to use the principles of psychology as an objective means of studying human behaviour and apply this within an IT context. Students will be encouraged to address the centrality of the human, both as a user and a developer.

The French and German streams aim to enhance the linguistic and cultural knowledge of students. We live in an increasingly globalized world and companies are constantly expanding overseas and dealing with clients from all over the world, so being able to understand and converse with people abroad is an important skill.

In year 3 you have the option to complete work placement or study abroad. Studying abroad has become a popular choice for all our students especially those who have chosen the European language elective.

Career opportunities
- Mobile App Developer
- Software Developer
- Systems Developer
- Programmer/Analyst
- Database Developer
- Web Developer
- SAP Specialist
- Business Analyst
- Data Analyst

Course outline is subject to change.
BACHELOR OF SCIENCE IN
MULTIMEDIA APPLICATIONS
DEVELOPMENT

ENTRY REQUIREMENTS
5 subjects: O6/H7
English or Irish: O6/H7
Mathematics: O6/H7

DURATION
3 years

POINTS 2018
Min: 186
Range: 186 - 476

COURSE LEADERS
Sinead O’Riordan, BSc, MA
Email: soriordan@wit.ie
Jacqui Woods-O’Brien, BSc, MSc
Email: jwoods-obrien@wit.ie

Course Aims
Multimedia Applications Development enables students to create innovative and creative computer applications. Graduates will be skilled in both computing and creativity to work in today’s highly dynamic, high-tech digital environment.

Why is Multimedia Applications Development important?
There is an increasing demand for IT professionals with the skillset required to drive and support the digital media industry within Ireland. The aim of the course is to provide graduates with the knowledge to work in the domains of computing, creativity and digital media.

Subject Areas
Students on this programme will study a broad range of subject areas including Web Development, Graphic Design, Animation, Media Production, Databases, Programming and Mathematics.

Unique features
This is a three year programme designed to provide students with the knowledge, skills and practical experience in the core areas of computing while specialising in multimedia.

Students using innovative tools and technologies, become proficient in programming and digital media to create custom-built interactive applications. The Flexible Semester facilitates professional development, enhances knowledge and technical skills, through a number of different opportunities, see Course Outline below.

Follow on Study
Graduates from this programme can transfer into the final year of the BSc (Hons) in Creative Computing – WD211

Career opportunities
- Software Support and Development
- Web Development
- Graphic Design
- Animation
- Pipeline/Production Management

All graduates will be comfortable working in the diverse areas of multimedia, both in application development and content creation, as part of a multi-disciplinary team.

COURSE LEADERS
Sinead O’Riordan, BSc, MA
Email: soriordan@wit.ie
Jacqui Woods-O’Brien, BSc, MSc
Email: jwoods-obrien@wit.ie

STUDENT VIEW
WIT’s BSc in Multimedia Applications Development was an easy choice as it offered both graphic design and software development. The course was challenging and opened up many opportunities for continued study such as database, web development, software development, video and audio production, just to name a few.”
Brid Mackey

| COURSE OUTLINE |
| YEAR ONE |
| SEMESTER ONE |
| Creative Programming Fundamentals 1 |
| Graphic Design 1 |
| User Experience Design |
| Introduction to Creative Media |
| Computer Systems 1 |
| Communication Skills |
| SEMESTER TWO |
| Creative Programming Fundamentals 2 |
| Website Development 1 |
| Digital Imaging |
| Pipeline Design Concepts |
| Computer Systems 1 |
| Mathematics for Problem Solving |

| YEAR TWO |
| SEMESTER THREE |
| Website Development 2 |
| Graphic Design 2 |
| 2D Animation |
| Audio Production |
| Database Fundamentals |
| Mathematics for Graphics and Statistics |
| SEMESTER FOUR |
| Web App Development 1 |
| Web Design and Development |
| 3D Modelling Fundamentals |
| Video Production |
| Database Systems |
| Professional Practice |

| YEAR THREE |
| SEMESTER FIVE |
| Learning Portfolio – Flexible Semester |
| Ind. Placement |
| OR Study Abroad |
| OR Professional Cert. |
| OR Voluntary Organization Project |
| SEMESTER SIX |
| Web App Development 2 |
| Digital Graphic Design |
| 3D Animation Practice |
| Software Engineering |
| NoSQL Databases |
| Multimedia Networks |
# Bachelor of Science (Hons) in Creative Computing

**Entry Requirements**
- 2 subjects: H5
- 4 subjects: O6/H7
- English or Irish: O6/H7
- Mathematics: O5/H7

**Duration**
- 4 years

**Points 2018**
- Min: 265
- Range: 265 - 478

## Course Aims
This degree course has been designed to provide you with the knowledge, skills and practical experience within the cross-disciplinary domains of technology and creativity and will allow you pursue a career in a dynamic, high-tech digital and creative industry.

### Why is Creative Computing important?
Enterprise Ireland has identified digital media content as a high growth area in Ireland, with business start-ups in digital media running at twice the rate anticipated. The unique cross-disciplinary nature of this course will foster technical and creative knowledge to work in the domains of technology, creativity and management of digital media.

### Subject Areas
This programme is designed to provide students with the knowledge, skills and practical experience in the core areas of computing and creativity. Students using innovative tools and technologies, become proficient in programming and digital media to create custom-built interactive applications. The flexible semester facilitates professional development, enhances knowledge and technical skills. Find out more at www.wit.ie/wd211.

### Follow on Study
On successful completion of this Level 8 course, you are eligible to avail of a range of taught and research postgraduate programmes.

### Unique features
Students gain theoretical and practical skills using innovative industry standard tools and technologies to become proficient in Creative Computing. These skills enable students to design and develop creative custom-built software applications.

This computing course specializes in areas of creativity such as graphic design, video and audio production, and 2D and 3D animation. In the final year students are given the freedom to focus on specialist areas of interest, through their choice of elective modules and project subject area.

### Placement
All students undertake Flexible Semester in year 3, allowing them to put academic theory into practice. There are a number of options available to students during this semester – please consult Course Outline below. Flexible Semester kick-starts the creation of a network of potential contacts for future careers.

### Career opportunities
- Graphic Design
- Animation
- Pipeline/Production Management
- Digital Film/TV/Broadcasting
- Mobile Application Development
- Web Development
- Software Support and Development

### Course Outline

<table>
<thead>
<tr>
<th>Year One</th>
<th>Year Two</th>
<th>Year Three</th>
<th>Year Four</th>
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</thead>
<tbody>
<tr>
<td><strong>Semester One</strong></td>
<td><strong>Semester Three</strong></td>
<td><strong>Semester Five</strong></td>
<td><strong>Semester Seven</strong></td>
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<tr>
<td>Creative Programming Fundamentals 1</td>
<td>Website Development 2</td>
<td>Learning Portfolio – Flexible Semester</td>
<td>Mobile App Development 1</td>
</tr>
<tr>
<td>Graphic Design</td>
<td>Graphic Design 2</td>
<td></td>
<td>Project 1</td>
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<tr>
<td>User Experience Design</td>
<td>2D Animation</td>
<td>OR Placement</td>
<td>Computer Security</td>
</tr>
<tr>
<td>Introduction to Creative Media</td>
<td>Audio Production</td>
<td>OR Study Abroad</td>
<td>Project Management</td>
</tr>
<tr>
<td>Computer Systems 1</td>
<td>Database Fundamentals</td>
<td>OR Professional Cert</td>
<td>Data Visualisation</td>
</tr>
<tr>
<td>Communication Skills</td>
<td>Mathematics for Graphics and Statistics</td>
<td>OR Voluntary Organisation Project</td>
<td>3D Lighting and Rendering</td>
</tr>
</tbody>
</table>

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<tr>
<th><strong>Semester Two</strong></th>
<th><strong>Semester Four</strong></th>
<th><strong>Semester Six</strong></th>
<th><strong>Semester Eight</strong></th>
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</thead>
<tbody>
<tr>
<td>Creative Programming Fundamentals 2</td>
<td>Web App Development 1</td>
<td>Web App Development 2</td>
<td>Mobile App Development 2</td>
</tr>
<tr>
<td>Website Development 1</td>
<td>Web Design and Development</td>
<td>Digital Graphic Design</td>
<td>Project 2</td>
</tr>
<tr>
<td>Digital Imaging</td>
<td>3D Modelling Fundamentals</td>
<td>3D Animation Practice</td>
<td>Integrated Marketing</td>
</tr>
<tr>
<td>Pipeline Design Concepts</td>
<td>Video Production</td>
<td>Software Engineering</td>
<td>Multimedia Databases</td>
</tr>
<tr>
<td>Computer Systems 1</td>
<td>Database Systems</td>
<td>NoSQL Databases</td>
<td>3D Animation and Transmedia</td>
</tr>
<tr>
<td>Mathematics for Problem Solving</td>
<td>Professional Practice</td>
<td>Multimedia Networks</td>
<td>Advanced Graphic Design</td>
</tr>
</tbody>
</table>

Semester Outline is subject to change.
Course Aims
This three year programme will provide you with the skills to work in the computer industry in a wide variety of different jobs. You will develop your knowledge about the critical role played by technology in organisations; become proficient in analysing, designing and developing computer systems and you will acquire the skills that will allow you to integrate various technologies together to form technical solutions for businesses across a wide range of industries.

Why is Information Technology important?
Information Technology plays a crucial role in all aspects of modern organisations. Currently, there is a shortage of people who have the skills to understand, design, develop and integrate technologies to develop solutions for problems that exist across all sectors of businesses, such as banking and healthcare.

Subject Areas
In first year there is a strong focus on understanding and appreciating the critical role technology plays in modern life, developing a basic set of core technical skills. In the subsequent years you will study specialist modules like NoSQL databases, Cloud Computing, Computer Security and Mobile Applications Development that will build on the knowledge gained in first year and equip you with the skills to become a specialist in technology integration, allowing you to gain employment in a diverse set of industries across the world.

Unique features
This course is built on two core computing areas, both of which have a high demand for graduates:
- Databases and Information Systems,
- Secure computer networks and cloud computing.

You will initially acquire skills in these specific areas and subsequently in their integration that will facilitate the development of creative and innovative technical solutions to solve problems in an array of businesses. At the beginning of year 3 you have the option to complete work placement or study abroad, which is a fantastic opportunity to experience a different culture and environment.

Follow on Study
On successful completion of this Level 7 course, you are ideally prepared for the BSc (Hons) in Information Technology Management (WD220). You are also eligible to avail of a range of other Level 8 programmes within WIT and elsewhere.

Career opportunities
- Computer Technician
- Data Administrator
- Database Developer
- Information Architect

COURSE OUTLINE

YEAR ONE

SEMESTER ONE
Programming Essentials 1
Website Development 1
Computer Systems 1
Communication Skills
Systems Analysis, Design & Testing
Mathematics Fundamentals

SEMESTER TWO
Programming Essentials 2
Web Design & Development
Computer Systems 2
Creative Problem Solving
BIS and Processes
Statistical Analysis

YEAR TWO

SEMESTER THREE
Programming Essentials 3
Database Fundamentals
Computer Networks
Introduction to Cloud Computing
Enterprise Applications
Network Theory Fundamentals

SEMESTER FOUR
Web App Development 1
Database Fundamentals
Networks Infrastructure
Introduction to Computer Security
Professional Practice
Further Statistics

YEAR THREE

SEMESTER FIVE
Learning Portfolio – Flexible Semester
Ind. Placement
OR Study Abroad
OR Professional Cart
OR Voluntary Organisation Project

SEMESTER SIX
Mobile App Development 1
NoSQL Databases
Automated Cloud Services
Application Security
Digital Transformation of Information Systems
Enterprise Data Exchange & XML

STUDENT VIEW

“I completed the BSc in Information Technology and I really enjoyed the course. It gave me a great foundation in computing with a high practical content. The course enabled me to be able to work on my own initiative and within a team environment which is critical for my current position. The lecturers on my course were always very helpful and supportive. The flexible semester was a great part of the course. I took this opportunity to travel to Canada for 6 months. I would highly recommend the BSc in Information Technology to any student currently thinking about computing at WIT.”

Eibhin McCormack
Course Aims
This is a one year full-time programme that will provide you with the skills to create technical solutions and manage an array of technologies that are used in the computer industry. You will develop an in-depth knowledge about integrating diverse technologies in organisations, be able to critically assess various types of software, evaluate options and make recommendations on how to design, develop and implement complex solutions. In particular you will acquire the project planning skills that will allow you to plan activities and complete a project that will enable you to showcase the diverse skills you will acquire during the year.

Why is Information Technology Management important?
Information technology plays a crucial role in all aspects of society. Currently, there is a shortage of people who have the skills to critique, design and develop complex technical solutions and in particular manage the integration of diverse technologies that solves problems and provides efficiencies across all types of organisation.

Follow on Study
After completing this programme you will be eligible to apply for a one year level 9 programme at WIT, such as the MSc in Computing (Information Systems Processes), or elsewhere.

Unique features
This course is built on technology management; specifically it focuses on managing data, administering databases, monitoring networks and applying system security protocols. You will be able to critically assess and make recommendations on the various technologies that underpin the operation of modern businesses and subsequently play a strategic role in the development and management of complex technical solutions.

Subject Areas
In this course there is a strong focus on managing technology and appreciating how complex systems often require innovative and creative solutions. You will be introduced to concepts such as data warehousing and business intelligence, project management, database administration, system security and cloud computing. You will complete a project that will enable you to demonstrate the skills acquired during the year and facilitate you to develop expertise in diverse and exciting areas of computing.

Career opportunities
Graduates of the BSc (Hons) in Information Technology Management may find employment in the following positions:
- Project Manager
- Systems Architect
- Data Administrator
- Security Technician
- Network Manager

STUDENT VIEW
“I attended an open evening where I spoke to two graduates, they gave me an overview of what to expect throughout the duration of the course which was very helpful. My class in first year was a mix of students of all ages and educational levels so it was quite a varied group. The first two or three weeks were quite disorientating, as you don’t know where the classrooms are, but after this initial period everything became routine. My 4th year project was a Morse code Training application which aims to teach people Morse code. The inspiration came to me having learned Morse code while in the Navy.”

Robert O’Brien
How to apply to WIT

This section is intended to assist you in applying for a place at WIT. Please read it carefully as admission to most of our courses is by way of a competition from which you will be eliminated if you don’t follow the rules. All applicants should have a good understanding of the nature and content of the courses for which they apply, so we advise you to read carefully the full course descriptions.

STANDARD APPLICATION:

A standard application is from a candidate who:

a) Is presenting Leaving Certificate or QQI FET / FETAC Certificate examinations results to meet the minimum entry requirements, and

b) Has no previous third level education (in institutes of technology, universities, colleges of education, colleges of art and design, or their equivalents abroad), and

c) Is not of mature years (23 years of age on 1 January of the year of entry).

Standard Applicants apply normally through the CAO by 1 February.

Applicants with disabilities and how to apply:

In accordance with the definition prepared by the Association for Higher Education Access and Disability (AHEAD), the Institute defines a student with a disability or learning difficulty as follows:

“A student is disabled if she or he requires a facility which is not part of the mainstream provision of the college concerned, to enable participation in the college to the full extent of her or his capabilities and without which she or he could be educationally disadvantaged in comparison with peers”.

The Institute welcomes applications from people with disabilities and applicants with disabilities should apply normally through the CAO by 1 February.

The Disability Coordinator for Waterford Institute of Technology is Laura Hartrey, 051 302871, disabilityoffice@wit.ie.

NON-STANDARD APPLICATION:

A non-standard application is one that does not meet the definition of a standard application.

The special categories are:

• GCE/GCSE
• Other School Leaving exams
• NCV Level 2/3
• FETAC Level 5/6
• Further Education (other than QQI)
• Mature
• Higher/Third Level Education

Persons wishing to make a non-standard application must tick the relevant box on the CAO form.

Although the Institute will try to assess all non-standard applications on the basis of the information provided, it reserves the right to call such applicants to the Institute to assess their case. Assessments are based on the documents provided at application.

Key CAO dates to remember:

1 February 2019: Initial CAO Deadline
1 May 2019: Late Applications deadline
1 July 2019: Change of Mind deadline
August 2019: First round of offers*

*Further offers may be made in subsequent rounds if all places are not filled following the first round offers.

Key points in filling out your CAO application:

• Apply through CAO, www.cao.ie
• Complete parts A and B of the CAO application form
• Non-standard applicants should provide as much relevant, supplementary information as possible
• Read the CAO handbook carefully
How to apply through the CAO

Detailed information on how to apply through the CAO system is available from the CAO (Central Applications Office) or at www.cao.ie.

Applications are made online at www.cao.ie

When making your application, it is very important to list your courses in genuine order of preference and, in addition, to understand the admission policies of Waterford Institute of Technology. www.wit.ie/admissionspolicies

WIT will communicate with you via email. It is your responsibility to ensure your email address is correct on the CAO.

WHO APPLIES TO THE CAO:
• EU citizens presenting with Irish Leaving Certificate or QQI FET / FETAC Certificate qualifications.
• EU citizens presenting with other European School Leaving qualifications.
• Non-EU citizens presenting with Irish Leaving Certificate or QQI FET / FETAC Certificate qualifications.
• Non-EU citizens presenting with other Non-European School Leaving qualifications.
• Refugees presenting with Irish Leaving Certificate, QQI FET / FETAC Certificate qualifications, European School Leaving qualifications or Non-European School Leaving qualifications.

ENTRY REQUIREMENTS:
• Entry points required for courses are dependent on demand. Recent points are listed on course pages and on the quickguide to courses.
• We have set out the standard required for qualification in the course descriptions. If you do not meet these, you cannot be offered a place, even if your points are higher than the minimum.
• In the case of the Leaving Certificate you may combine results from more than one sitting for the purposes of entry requirements only.
• For European/non-European school leaving qualifications, see www.wit.ie/yourapplication
• For English language requirements, see www.wit.ie/englishrequirements

RECEIVING AN OFFER:
In order to receive an offer of a place you must:
1. Be qualified for the course, and
2. In the event that there is competition for places, you must attain the required minimum points.
3. We will offer places to qualified applicants in order of decreasing point scores and the minimum score will be that attained by the last candidate offered a place.
4. Decisions on applications are normally taken in August.
5. If an applicant does not indicate that further documents should be expected and/or if they fail to indicate the date by which they will be available, WIT will assume the application is complete and the applicant will only be assessed on the basis of the material to hand.
6. All offers of places will be sent by post from the CAO and will be available online at www.cao.ie

MATHS INITIATIVES:
• Bonus points will be awarded for Higher Level Maths. See www.wit.ie/bonuspoints
• Maths Entry Exam is designed to assist students who have not met the required maths grade for entry into WIT. It will not provide additional points. See www.wit.ie/mathsentryexam

ABSENCE AT APPLICATION AND OFFER STAGE:
Experience has shown that difficulties can arise if you are not available at application and offer stage. It is strongly recommended that you should be at the correspondence address during the application process and in August when offers of places are issued. If this is not possible, have another person at the address briefed clearly on what to do. If you fail to deal with your application or an offer properly and on time you may lose the place.

OFFER PROCEDURES:
Offers will be issued independently in respect of Level 8 and Level 7/Level 6 courses, so that some applicants may receive two offers of places simultaneously.

OFFER ACCEPTANCE:
• If you receive more than one offer, you may make successive acceptances but an acceptance automatically cancels and supersedes any previous acceptance(s) - you may have only one current acceptance in the entire CAO system.
• You may view an offer on the CAO website at www.cao.ie and accept online.
• In addition, formal Offer Notices will be sent by post together with the necessary instructions as to how to proceed.
• You may accept an offer either online or by complying in full with all instructions set out in the Offer Notice. Do not do both.

LAPSE OFFERS:
An offer will lapse unless you accept it within a specified period, i.e. unless the online or paper acceptance is received in the CAO by 5.15pm on the Reply Date set out in the Offer Notice.

StartWIT:
Registration and orientation for first-year students will take place in early September. Classes will also commence for first-year students in early September.

DEFERRING A PLACE:
WIT will consider sympathetically requests from applicants, who, having been successful in gaining a place in the Institute, decide that they wish to defer their entry until the following year.
For more information on deferrals, visit www.wit.ie/deferrals

REGULATIONS:
All applications, offers and registration processes are subject to the full regulations of the Institute which are available at www.wit.ie/regulations

www.wit.ie
How to apply: Qualifications other than the Leaving Certificate

QGI FET / FETAC

Waterford Institute of Technology welcomes applications from applicants who are presenting QGI FET / FETAC Level 5 or Level 6 awards. This scheme provides for the scoring of applicants presenting QGI FET / FETAC (NCAVA) examination results.

QGI FET / FETAC introduced a new awards system known as the Common Awards System or CAS. All QGI FET / FETAC awards will be part of CAS from 2014. Please refer to the QGI FET / FETAC website www.qgi.ie for changes to the award structure.

A full QGI FET / FETAC award normally contains eight modules. Where a full award is accumulated over more than one academic year, it is the responsibility of the applicant to apply to QGI FET / FETAC for a full award. A Component Certificate/Record of Achievement does not meet these minimum entry standards.

An applicant’s QGI FET / FETAC score can be achieved over multiple sittings i.e. over more than one certification year, between 1 August and 31 July.

APPLICATION PROCESS

• Applicants must apply through the CAO system.
• Application can be made online at www.cao.ie
• Applicants must ensure to enter their PPS number in the relevant box in Section A.
• Applicants must have obtained a full QGI FET / FETAC award.
• Progression is on the basis of achieving a Level 5 or 6 major award, with a minimum credit value of 120.
• A Component Certificate/Record of Achievement is not sufficient.
• Applicants presenting full QGI FET / FETAC Level 5 or Level 6 awards will not be required to meet minimum entry requirements based on Leaving Certificate results. The QGI FET / FETAC award is accepted in its own right.
• In the case of WD027 BA (H) in Music, applicants must apply to the CAO by 1st February, attend and pass the Music Assessments in order to be eligible to compete on QGI FET / FETAC results.

MINIMUM ENTRY REQUIREMENTS

The following minimum entry requirements will apply to graduates of QGI FET / FETAC Level 5 seeking admission to courses at Waterford Institute of Technology:

• Higher Certificate (Level 6): Minimum entry: QGI FET / FETAC Level 5 or Level 6 award.
• Ab-initio Degree (Level 7): Minimum entry: QGI FET / FETAC Level 5 or Level 6 award.
• Ab-initio Honours Degree (Level 8): Minimum entry: QGI FET / FETAC Level 5 or Level 6 award including a distinction grade in at least three modules.

WARNING: Applicants presenting specific QGI FET / FETAC awards. The table below sets out the number of “QGI FET / FETAC” places currently available in WIT:

<table>
<thead>
<tr>
<th>PROGRAMME</th>
<th>TOTAL PLACES</th>
<th>QUOTA FOR QGI FET / FETAC INTAKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WD116 – General Nursing</td>
<td>51</td>
<td>4 places</td>
</tr>
<tr>
<td>WD117 – Psychiatric Nursing</td>
<td>43</td>
<td>4 places</td>
</tr>
<tr>
<td>WD120 – Intellectual Disability Nursing</td>
<td>25</td>
<td>4 places</td>
</tr>
</tbody>
</table>

Please consult the latest edition of “Nursing/Midwifery a Career for You” on www.nursingcareers.ie for details.

Whilst QGI FET / FETAC applicants may meet the requirements outlined above and be eligible for a nursing degree programme, due to the small number of places available, a random selection system is operated by the CAO.

QGI FET / FETAC SCORING

The scoring scheme only applies where all the requirements for the major award are met, i.e. when the named component awards specified have been achieved to a minimum of 120 credits.

See the QGI FET / FETAC qualifications section at www.cao.ie for further details.

Level 5 and 6 Certificates, i.e. major awards, achieved before the introduction of CAS are also scored according to the system outlined above. To view the list of QGI FET / FETAC awards, see www.fetac.ie/fetac/awardsinfo/directory/directory.htm

QGI FET / FETAC results cannot be added to Leaving Certificate points. Where applicants have taken both exams, the higher points will be considered for rating purposes.

LEAVING CERTIFICATE VOCATIONAL PROGRAMME

WIT treats the link modules as a single subject and awards points as follows:

Pass: 28 points           Merit: 46 points           Distinction: 66 points

This is automatically computed by the CAO and will count if it is one of your 6 best subjects. It will not, however, substitute an honour where one or more are required.

LEAVING CERTIFICATE APPLIED PROGRAMME

The Leaving Certificate Applied Programme was designed primarily to prepare for the transition from school to working life. It is not intended for direct transfer into third level. However, students with the LCAP who have completed a QGI FET / FETAC award can be considered for entry.

ADVANCED ENTRY

Waterford Institute of Technology offers a range of undergraduate courses to those who already hold third-level educational qualifications or have significant professional experience.

Admission into years 2, 3, 4 or 5 is subject to the availability of places. Prior to applying we advise that you review the set minimum entry requirements for your specific programme of choice.

Please note that you must provide all documentary evidence (i.e. certified copy of examination results script, Award Certificates) in support of your application to Advanced Entry Admissions prior to your application being considered by the relevant Academic Head of Department. Once an outcome is determined (successful/unsucessful), you will be issued an email to the address provided by you at time of application.

For more information visit www.wit.ie/advancedentry.
STUDENT CONTRIBUTION
The Student Contribution Charge for the academic year 2018/2019 is €3,000. The Student Contribution is an annual charge directed by the Higher Education Authority. All third level students are liable to pay this fee unless they qualify for a SUSI grant.

GRANTS
All new grant applications for 2018/2019 must be made online to SUSI (Student Universal Support Ireland) through www.susi.ie or telephone 0761 087874. If approved, SUSI will pay the Student Contribution on behalf of the student directly to Waterford Institute of Technology. It is not necessary to have received an offer of a college place or to be enrolled in college in order to apply online.

For students who have paid this fee in the interim, this will be refunded by the grants office.

For further information on grants please log onto:
www.citizensinformation.ie
www.studentfinance.ie

TUITION FEES
Generally, first time undergraduate students pursuing a full time programme will qualify for free tuition fee funding. Please refer to www.studentfinance.ie for full details of the “Free Fees Initiative” (F.F.I.) scheme. A student who qualifies under the F.F.I. will be exempt from paying tuition fees to WIT. Those students who do not qualify under the F.F.I. will be liable to pay all tuition fees depending on the programme they choose to complete.

WIT STUDENT CARD
This is a €15.00 charged to all first year students for the issue of a student card. This WIT card is required for access to student facilities. Where a student already holds a valid WIT Card from previous years a new card is not required.

CONTACT INFORMATION
The Fees & Grants Office is located within the Finance office on the 1st floor of the Tourism & Leisure Building at the Main Cork Road Campus and operates within the following hours only:

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Monday</td>
<td>2.00pm – 4.00pm</td>
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<tr>
<td>Tuesday</td>
<td>10.30am – 12.30pm</td>
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<td>Wednesday</td>
<td>10.30am – 12.30pm</td>
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<tr>
<td>Thursday</td>
<td>2.00pm – 4.00pm</td>
</tr>
<tr>
<td>Friday</td>
<td>2.00pm – 4.00pm</td>
</tr>
</tbody>
</table>

Fees & Grants staff can be contacted by phone or email at all times.

Janet Syms
051 845692 / fees@wit.ie

Denice Power
051 302088 / grants@wit.ie

Marie Cummins
051 302048 / mcummins@wit.ie

Disclaimer: The Grants & Fees section is a simplification of the rules and it should not be taken as a formal expression of the regulations, as schemes may be changed by parties other than WIT. Information is correct at time of print.
Mature students

Going to college is an exciting time, full of expectation, trepidation and hope for the future. It can also be an anxious time, no more so than for students coming back into further education after being away from it for a few (or many) years. At WIT we have lots of support services to help you in deciding what option is best for you and in your transition to college life.

FREQUENTLY ASKED QUESTIONS

Do I qualify as a Mature Student?
A mature student is someone who is at least 23 years of age on 1st January of the year of entry to an undergraduate course and who may not meet the normal admission requirements. There is no upper age limit.

Why should I consider third level education as a mature student?
Mature students decide to enter third level education for a variety of reasons:
- To complete their education and get a qualification
- To further develop an interest in a given subject
- To improve their job prospects
- To retrain for another career
- To develop their social and personal skills

How do I apply for a place on an undergraduate course?
There are two main steps to take:
- Complete your CAO application by 1 February 2019. Note that there is a late application deadline of 1 May 2019.
- See Mature Applicant policy documents for details regarding additional assessment processes for WIT courses.
  Web: www.wit.ie/admissionspolicies

Note: You must apply for Nursing & Music courses by 1 February.

Selection Process - Music Applicants
If an applicant includes WD027 BA (Hons) in Music (Level 8) as a choice, applicants will not be scored for WD027 and will be assessed solely on the basis of the WIT Music Audition.

Mature Applicant Policy
For full information, please refer to the Mature Applicant policy at www.wit.ie/admissionspolicies

Mature Applicant – Change of Mind
The Change of Mind facility becomes available after 1 May and the closing date is 1 July. The Change of Mind Facility affords mature applicants an opportunity to change the order of preference only of their course choices. If applicants introduce a new programme to their list of choices by way of Change of Mind, they will compete for a place on that programme based on their Leaving Certificate or equivalent results only. They will not compete as a mature applicant.

Restricted Application Course – WD027 BA (Hons) in Music – if added for the first time via a Change of Mind is invalid and will not be considered. Closing date is strictly 1 February for application to this course.

Mature Applicant - Decisions & Offers
Successful candidates will be offered a place in the highest of their course preferences to which they are entitled (if any). This will be done, independently, in respect of level 8 and level 7/level 6. Applicants may, therefore, receive two offers at the same time, one for the highest level 8 preference to which s/he is entitled and the other for the highest level 7/level 6 preference to which s/he is entitled. Offers to mature applicants are normally made in Round A from the CAO, which normally happens in early July, in advance of the Leaving Certificate offers.

Mature Applicant - Deferral of Places
WIT will consider sympathetically requests from applicants, who, having been successful in gaining a place in the Institute, decide that they wish to defer their entry until the following year.

Additional Assessment
See the Mature Applicant policy documents for details regarding additional assessment processes for WIT courses.
www.wit.ie/admissionspolicies
Can I get funding to assist my return to study?
If you are currently unemployed, you may be eligible for the Back to Education Allowance scheme. Contact your local Social Welfare Office for information.

Many mature students are eligible for a grant while attending college. Full details are available from www.studentfinance.ie. The grant process can take some time so we advise you to start early. See page 112 for Money Matters.

Do I need to have Irish Nationality to apply?
No, but to apply through the CAO, you must hold an EU birth certificate or passport and be resident in an EU member state for three of the five years prior to entry to an undergraduate course or have official refugee status. Non-EU applicants are welcome, but will be subject to fees and must apply directly to the international office at WIT. In addition, if English is not your first language, you will be required to provide evidence of proficiency in the language.

For more information see www.wit.ie/international

Are there additional supports for mature students?
REGSA - The Regional Education Guidance Service for Adults provides information and educational/career guidance and one-to-one consultations to adults who are making choices about returning to education, retraining or up-skilling for a career change.

For information, see www.regsa.ie

WIT’s support service: Student Life & Learning
• Student Life & Learning coordinates a number of activities for registered mature students. These include: mature student induction, various workshops which include study skills and exam techniques.
• Mature Student Summer School. This is a ‘taster’ programme run in June for adults who are considering returning to education.
• A drop-in service providing advice and support in relation to wider academic and non-academic services, such as course transfers, deferrals, counseling, medical, disability services, and chaplaincy services.
• The Careers Office provides services to mature students.

For information, see www.wit.ie/sll

Informal supports (eg. course leaders, the Students’ Union, other class mates, other members of clubs and societies) often play a big role in supporting all students at WIT.

Disclaimer: All rules & regulations regarding mature applicant selection are correct at time of print, but may be subject to change.

More information:
Email: maturestudent@wit.ie
Web: www.wit.ie/mature

Top Tips for Mature Students

• Choose your course carefully. Find something you enjoy and then find a way to make it pay. You know more than you think so don’t be worrying. Worrying and stressing use up time and energy you may as well use for studying.

• When it comes to exams, you won’t be asked anything you haven’t been told in class, so...

• Go to your lectures!

• The only stupid question is the one that goes unasked

• For matures students… treat college like being self-employed with one big pay day at the end.
Outreach

At WIT, we understand that finding out information on all aspects of going to third level is important to you. Whether it’s information on courses, entry points, accommodation, clubs and societies or students supports, the Schools’ Liaison and Outreach team are available to give you advice and assistance to ensure you make the right decisions.

WIT OPEN DAYS
For a full list of open events, visit www.wit.ie/events

WIT Autumn Open Days
Friday and Saturday, 23 and 24 November 2018
Venue: WIT Arena, West Campus, Carriganore
Primarily aimed at 6th Year Leaving Certificate students, their parents and guidance counsellors looking to explore the full range of courses on offer at WIT.

WIT Spring Open Days
Friday and Saturday, 29 and 30 March 2019
Venue: Main Campus, Cork Road
Our Spring Open Days will assist students in confirming their CAO choices and preferences through attending a series of information talks and workshops across all discipline areas.

Try WIT EVENTS
For a full list of try events, visit www.wit.ie/try

Prospective students can learn more about the courses and careers they are considering for their future by taking part in WIT Taster Days.

Try Nursing - 30 October to 2 November 2018
Try Business - 5 December 2018
Try Sport - 22 February 2019
Try Music - 28 February 2019

Ask WIT EVENTS
For a full list of ask events, visit www.wit.ie/cao

Throughout the year WIT hosts a number of Ask WIT events to assist students with their CAO applications, course choices and offers. Prospective student and their parents can visit our dedicated drop-in centre, take part in live web chats, call our CAO helpline or text WIT.

Ask WIT: CAO 1 February Web Chat
30 January - 01 February 2019

Ask WIT: QQI-FET (FETAC) Progression Web Chat
12 March 2019

Ask WIT: CAO Change of Mind events
27 June - 1 July 2019

Ask WIT: CAO Offers events
19 August - 21 August 2019

CAMPUS TOURS

School Groups
From September to June each year we welcome secondary school groups to campus. With a member of the Schools’ Liaison team as your guide, the school group campus tour gives prospective students the opportunity to see our campus first-hand, learn about WIT’s history, student life, residential life, dining, and campus safety.

Cork Road and College Street Campus Tours
With a WIT Graduate Ambassador as your guide, our campus tours give prospective students, their parents and friends the opportunity to see our campus first-hand, learn about WIT’s history, student life, residential life, dining, and campus safety. Individual campus tours are approximately 60 minutes.

WIT Arena and Sports Campus Tours
With a WIT Graduate Ambassador as your guide, the WIT Arena and Sports Campus tour gives prospective students, their parents and friends the opportunity to explore the state-of-the-art sports facilities at our Carriganore Campus. Explore our gym facilities with the latest PreCore and EXIGO equipment, high performance gym, dance studio, 2km cross country run set, 2500 seated arena, full sized flood lit 3rd generation GAA pitch, rugby and soccer pitches and physiotherapy rooms. WIT Arena & Sports Campus tours are approximately 60 minutes.

To book
Email: campustours@wit.ie
www.wit.ie/campustours

SCHOOL TALKS

From September to June each year our Schools’ Liaison team and Graduate Ambassadors are available to visit schools. To arrange for a speaker to visit your school please visit www.wit.ie/teachers

CAREERS FAIRS

To arrange for a WIT representative to attend a careers fair, please get in touch with us.

CONTACT
Email: schoolsliaison@wit.ie
Tel: +353 51 845534
Calendar of events
(September 2018 - August 2019)

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OPEN DAYS

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Friday 23 November, 9am - 2pm
Saturday 24 November, 9am - 2pm
Venue: WIT Arena, West Campus, Carriganore, Waterford

WIT Spring Open Days:
Friday 29 March, 5.30pm - 7.30pm
Saturday 30 March, 9am - 2pm
Venue: Main Campus, Cork Road, Waterford

CONTACT US

Tel: 051 845534
Email: schoolsliaison@wit.ie

www.wit.ie