YOUR FUTURE STARTS HERE

CIT

full-time courses 2011

CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

cit's **mission**

To provide student-centred education with a career focus for the benefit of the personal, intellectual and professional development of the student and for the benefit of the whole of society.

governing **body**

Dr Paddy Caffrey, Chairman
Dr Brendan J. Murphy, President, CIT
Cllr James A. Corr
Cllr Catherine Clancy
Mr Ted Owens
Mr Barra Ó Briain
Cllr Aileen Pyne
Rt Rev. Canon G.A. Salter
Dr Áine Ní Shé
Mr John O'Sullivan
Mr Eoin Deane
Cllr Gearóid Buckley *
Ms Deirdre Conroy*
Ms Áine Piggott
Ms Valerie Gleeson
Ms Mary Keane
Mr Billy O'Neill
Mr Jim Woulfe
Mr Mark Whitaker
(August 2010)

* until 30th September 2010.

our **websites**

http://www.cit.ie

You can access course information on the web at: www.cit.ie which has complete details of full-time and part-time courses. The website also offers further information on Administration, Sports, the Arts, Alumni Association and up-to-date news.

http://modules.cit.ie

CIT has developed this website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

dates to **remember**

NOV 3 — **NMCI Open Day**
→ 3rd November 2010, Ringaskiddy
Further information available on www.nmci.ie

NOV 4 — **CIT Information Day for Guidance Counsellors**
→ 4th November 2010

NOV 20 — **CIT Open Day**
→ 20th November 2010, Bishopstown Campus

NOV 19/20 — **CIT Crawford College of Art & Design Open Day**
→ 19th and 20th November 2010, Sharman Crawford St.

NOV 20 — **CIT Cork School of Music**
BMus Honours Degree Open Day
→ 20th November 2010, Union Quay, Cork

FEB 1 — **CAO Closing Date**
→ 1st February 2011

APR 9 — **CIT Cork School of Music**
BMus Honours Degree Entrance Exam
→ 9th April 2011

APR 28 — **Cork Mechanical, Manufacturing &**
Biomedical Engineering Annual Exhibition
→ 28th April 2011

MAY 1 — **CAO Late Applications**
→ 1st May 2011

JUL 1 — **CAO Change of Mind**
→ 1st July 2011

AUG — **CIT Special Engineering Entrance**
Exam in Mathematics
→ August 2011

SEP 5 — **Registration of First Year Students at CIT**
→ Week commencing 5th September 2011

SEP 12 — **Start of Semester 1 at CIT 2011 - 2012**
→ 12th September 2011

JAN 30 — **Start of Semester 2 at CIT 2011 - 2012**
→ 30th January 2012

Institiúid Teicneolaíochta Chorcaí
Cork Institute of Technology

CORK INSTITUTE OF TECHNOLOGY

Institiúid Teicneolaíochta Chorcaí

incorporating

CIT CORK SCHOOL OF MUSIC
CIT CRAWFORD COLLEGE OF ART & DESIGN
NATIONAL MARITIME COLLEGE OF IRELAND

President: Dr. Brendan J. Murphy
Chairperson of Governing Body: Dr. Paddy Caffrey

Bishopstown, Cork, Ireland.
T: 021 432 6100
F: 021 454 5343
W: http://www.cit.ie

contents

student **life**

About Cork Institute of Technology

Whatever your plans and talents CIT has a course of study for you. We offer the full range of higher education qualifications, including Bachelor degrees and Honours Bachelor degrees, as well as postgraduate Masters and PhD degrees. There is a flexible "ladder" system in place, which, in many cases, allows you to progress from one award to the next. For those returning to education from employment or for those with other commitments, CIT has a varied part-time and evening programme, one of the largest at third level in the country.

CIT has four principal Campuses:

- Bishopstown Campus situated in the suburbs of Cork City
- CIT Crawford College of Art & Design (CIT CCAD) situated in Cork City
- CIT Cork School of Music (CIT CSM) situated in Cork City
- National Maritime College of Ireland (NMCI) situated in Ringaskiddy, Cork Harbour.

The Bishopstown Campus

The Bishopstown Campus is the main centre, and is the location for courses in Business, Science, Computing, Engineering and Humanities. Also located here are Student Services, Administration, Research Centres and Industry Support Centres.

The Bishopstown Campus is situated in the western suburbs of Cork City. Leisureworld Sports Centre, which includes both a 25m and an 18m swimming pool, is right next door. Just a few minutes walk away are the suburbs of Bishopstown and Wilton with shops, restaurants and sports facilities. The city centre is just a short bus ride away.

The Student Centre is the main focus for student activity and leisure. It has all the services you could hope for, such as a common room, restaurant, meeting rooms, banks and a supermarket. The Student Centre includes a medical clinic, a contemplative space, Students' Union offices and the careers and counselling service.

The Rubicon Centre is a business incubation centre for young graduates. It provides a supportive on-campus environment for start-up businesses.

The CIT Information Technology Centre consists of computer laboratories, seminar rooms and open access computer stations for hundreds of students. All these computers are fully networked and on-line.

CIT Crawford College of Art & Design (CCAD)

This is a self-contained College of CIT, located in Sharman Crawford Street. It is situated within walking distance of the city centre. The Department of Fine Art and the Department of Art & Design Education are based at the Sharman Crawford Street campus, offering programmes in Fine Art, Ceramics, and Art Education. The Department of Media Communications and the Department of Art Therapy are based at CIT Bishopstown campus offering programmes in Multimedia, Visual Communications, and Art Therapy. Facilities include lecture rooms, library, studios and personal work-areas for students. There are well equipped workshops and laboratories for an extensive range of specialist areas. The CCAD annual Degree Show is one of the highlights of the arts calendar in Cork.

CIT Cork School of Music (CSM)

CIT Cork School of Music (CSM) is a Constituent School of CIT and provides an Honours Bachelor of Music degree and a taught Masters of Arts in Music and has research students studying for MA and PhD degrees. The CSM has many award winning bands, chamber music ensembles, choirs, drama groups, opera groups, and orchestras – with the senior ones undertaking extensive national and international tours, broadcasting, and making commercial recordings.

National Maritime College of Ireland (NMCI)

This state-of-the-art College is located in Ringaskiddy, Co. Cork and provides training and education for the Merchant Marine and the non-military needs of the Irish Naval Service (INS). The NMCI provides education services of the highest quality. Specialist spaces including survival facilities, seamanship and shipwrights' workshops, fire fighting/damage control, jetty and lifeboat facilities and engine room are provided. The College also provides specialised simulation equipment in the areas of navigation, bridge training, communications, engineering-machinery operations, liquid cargo handling/damage control and vessel traffic systems. These facilities fully comply with the most up to date international standards and requirements. A multipurpose hall and sporting facilities are also included in the college.

services for **students**

Our Student Services aim to support the student community and provide opportunities for students to grow and develop in non-academic areas. Student Services also aim to assist students during periods of personal difficulty that may occur during their courses, in planning their futures and in progressing to employment or further study. Student Services consist of the following;

- Careers & Counselling
- Medical
- Accommodation
- Students' Union
- Sports Clubs and Societies
- Photocopying and Secretarial Bureau
- Student Support Team
- Coffee Dock
- Banks
- Mini-market
- Common Room
- Campus Radio

Accommodation Service

The Accommodation Office assists students in finding a suitable place to live. The service provides information and guidance to students on the accommodation most appropriate to their needs. If you would like any information on the student apartments, you can also contact them directly, see www.cit.ie/studentlife/ for details. The shared housing/lodgings list is available to students in early May and it is updated regularly.

Contact
Deirdre Falvey,
Accommodation Officer,
T: 021 432 6453
F: 021 432 6155
E: deirdre.falvey@cit.ie
accommodation@cit.ie

Types of Accommodation

1. Lodgings/Self Catering Lodgings (Living in a family home)

Lodgings:
Where a student receives breakfast, evening meal and light supper. Prices for this year are approximately:

Single room	5 day: €120
Twin room	5 day: €90
Single room	7 day: €140
Twin room	7 day: €110

Self Catering Lodgings:
Where a student lives with a family but has use of the kitchen to cook meals. Prices per week for this year are approximately:

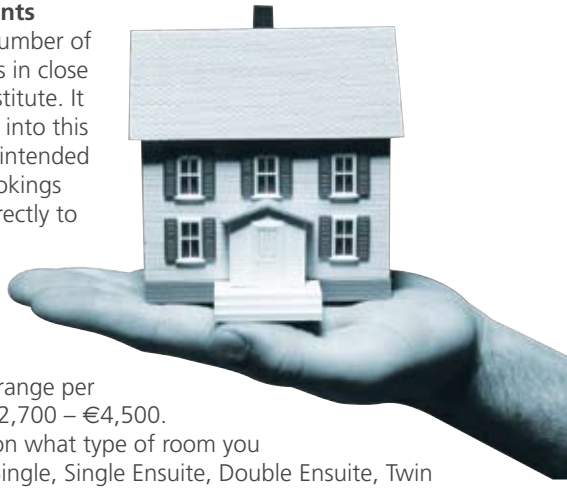
Single room:	€80
Twin room:	€70

2. Shared Houses/Flats

A list of houses/rooms in houses is available throughout the year and this is updated regularly, especially during the summer months. As there is a high demand for this type of accommodation, it is advisable to contact the Accommodation Office regularly for an updated list. The approximate price per week for this year is:

Single room:	€85
Twin room:	€70

3. Student Apartments/Hostels



Student Apartments
There are a large number of student apartments in close proximity to the Institute. It is advisable to look into this option early in the intended Academic Year. Bookings should be made directly to the apartments. Payment is normally made in two instalments. The approximate price range per academic year is €2,700 – €4,500. The cost depends on what type of room you choose (Standard Single, Single Ensuite, Double Ensuite, Twin Standard, Twin Ensuite etc). The average number of rooms per apartment is 3, 5 or 7. Students are advised to look at apartments before booking and to read leases carefully before signing them.

Finding a Place to Stay

The most popular ways of finding accommodation are:

- CIT Accommodation Office
- Newspapers
- Word of mouth
- Notice boards
- Shop windows
- Flat finding agencies
- Auctioneers

While every effort is made to facilitate students seeking accommodation, the Institute is not involved in any agreement/ contracts entered into between students and landlords. We are happy to discuss any problems students may have in their accommodation and try to help resolve them in a reasonable manner.

Information Leaflets on Tenants Rights, Student Possession Insurance & Fire Safety in Rented Accommodation are available from the Accommodation Office which is located on the 1st floor of the Student Centre, Bishopstown Campus.

Careers and Counselling Service

The Careers and Counselling Service is a free, integrated and confidential service available to all full-time current registered students of the Institute. The Service is committed to supporting and encouraging students to reach their academic and personal potential during their time at the Institute. The Service offers Career Guidance, Educational Guidance and Personal Counselling.

The integrated Careers and Counselling Service operates on a 'drop in' and appointment basis, and is located on the 2nd floor of the Student Centre, Bishopstown Campus. The Service is also available to students of the other CIT campuses.

Health Services

The Medical Centre, situated in the Student Centre on the Bishopstown Campus is open Monday to Thursday from 8.30am - 4.30pm and on Friday from 8.30am - 3.30pm. During term, it is staffed by eight doctors, two nurses and a secretary, and provides a comprehensive range of services suitable for the students' needs. The nursing service is available without charge to all students. Services of the doctor are provided free of charge to all students who have a medical card and at a nominal cost to other students.

After hours, a Family Doctor Service is provided by SouthDoc, Tel: 1850 335 999. This service operates at night and weekends. Students without a medical card have to pay the appropriate fee for this service at the time.

Reprographic Services

Situated in the Student Centre, the Reprographic Unit provides a range of copying and binding services including assistance with the production of projects and CVs. It produces and distributes internal Institute publications such as laboratory manuals and lecture materials. Photocopying facilities are provided in a number of different locations in the Institute including the Library and the Students' Union Office.

Chaplaincy/Student Support Team

Chaplaincy is a dynamic presence at CIT recognising and responding to the pastoral and spiritual needs of students and staff. The Student Support Team comprises a group of graduate students who work alongside a full-time professional Pastoral Care Team and they:

- Invite students and staff to liturgical celebrations, retreats and to opportunities for spiritual nourishment and expression;
- Provide a range of community building projects including: an Information Desk, and a weekly Institute newsletter (What's On);
- Respond to, intervene and are present at times of trauma, crisis, illness and bereavement;
- Offer a pastoral counselling bridge to, and support for professional counselling.

They look forward to meeting you throughout your time in CIT.

Students' Union

The Students' Union represents and defends its members on matters affecting their rights and interests as students of the Institute and as citizens and acts as a channel of communication between its members and the Institute and other bodies. The Union is one of the principal conduits for expression of students' opinions, and is recognised as such by the management of the Institute.

Students' Union Services
The ethos of the Students' Union is to provide quality services on a non-profit making basis to students. Whenever possible, services are provided at a lower price than any other retail outlet on campus or in the local vicinity. The Students' Union and Office/ Retail Outlet is open daily from 9am to 5pm and is located on the 1st floor of the Student Centre, Bishopstown Campus. The services available from the Office include:

- Travel
- Night Shuttle
- Entertainment
- Publications/Communications

The Arts

The arts scene throughout the Institute is supported by full-time Arts Officer Sarah Morey. The role of the Arts Office is to work with students and staff in developing and supporting arts related projects and to promote arts activities in all campuses. CIT offers students a wonderful opportunity to engage with and develop their talents, meet new friends and get involved in the arts. Students have an opportunity to develop their interests in the arts by joining arts related societies such as dance, drama or the dj society to name a few or they can get involved in the various arts activities organised throughout the year by the Arts Office.

Artsfest – A celebration of the Arts
A major festival in the National Arts diary, 'Artsfest', is organised by staff and students of the Institute. The festival has featured famous international, national and local performers. On campus, the festival involves students from a wide variety of societies. Students have the opportunity to become involved in performing in the festival, helping backstage or creating site specific work. This festival offers students a unique opportunity to engage with the arts during college life.

CIT Alumni Association

The CIT Alumni Association enables graduates to keep in touch with developments at CIT and maintain contacts with friends, classmates and faculty staff from college days. The main aim of the Association is to provide a professional and social network that will be of mutual benefit to CIT alumni and the Institute. CIT provides all alumni with free membership of the Association.

Sports & Leisure

Sports Office
The Sports Office facilitates students and their club and is responsible for the management and upkeep of all sports facilities in the Institute. A section in the office is dedicated solely for club members to work on club business, design posters, make phone calls, and access the internet. The Sports Office plays a key role in the life of CIT assisting students in the running of clubs and interacting with people of similar interests.

Sport in CIT is supported by:
- Sports Officer and Acting Sports Officer
- Sports & Societies Administrator
- GAA Development Officer
- Part-time Soccer Facilitator
- Gym Supervisors
- Sports Hall Co-ordinator

The Gym may be used by all full-time staff and students and is open Monday - Friday 8am - 9pm and Saturday 10am - 4pm. T: (021) 432 6872.

New students should look out for Clubs Day during 'Freshers Week', when each club gives information of its activities and recruits new members. CIT participates at the highest level of competition amongst the country's third level institutions and is a member of CUSAI (Council of University Sports Association of Ireland) which is the Governing Body for sports in Institutes of Technologies and Universities and whose aim is to promote and develop third level student sport in Ireland.

In the 2009/2010 academic year, the Institute featured prominently in a number of events and had numerous successes including:

- Athletics Indoor Championship: 400m Bronze
- All Ireland Junior Boxing Intervarsities Heavyweight: Silver
- Camogie: Ashbourne Shield Finalists
- Ladies Football: Lynch Shield Winners
- Tae Kwon Do: Perpetual Shield Winners and numerous individual medal winners at the Intervarsities
- Racquetball: Munster Intervarsity Champions
- Hockey: Intervarsities Plate Finalists, All-Ireland Mixed Tournament Finalists and All-Ireland Indoor Tournament Finalists
- Table Tennis: 2nd team overall at the Intervarsities, and 2nd and 3rd individuals at the Intervarsities (Snr)

CIT's excellently prepared sports grounds played host to numerous competitions throughout the year including numerous schools matches in gaelic football, hurling, soccer and rugby.

CIT hosted many prominent Colleges competitions including the All-Ireland Schools & Intervarsity Cross Country, the CFAI Umbro Cup Finals, the Camogie Ashbourne and Purcell competitions. CIT provides training facilities for various local and inter-county teams including the Cork Ladies Football teams from under-age to senior level, Cork Senior and Minor Camogies and Cork Minor Hurlers and Footballers and the Cork Kennedy Cup team. CIT also hosted the prestigious Cork City Sports in July.

As well as catering for the competitive athlete, CIT's Sport Clubs place a big emphasis on participation and fun and this is reflected in the growing numbers who take part. The Sports Office runs a number of activities such as aerobics, circuit training and 'fit for life' programmes. The sports facilities are ideally located on campus and are currently amongst the finest in Ireland. These include:

- Sports Hall
- Cardio Fitness Centre
- Fully equipped Gym and Weights Room
- Strength & Conditioning Gym
- Sprung Floor Studio
- 9 playing pitches (Football, Hurling, Soccer, and Rugby)
- International standard Athletics Track
- All-weather Astroturf Pitch
- Tennis court
- 1 mile outdoor jogging/walking path

CIT has an impressive Stadium with stand and dressing rooms which complement the playing pitches of CIT, some of which are fully floodlit. There is a full size astro-turf pitch. The athletics stand which was completed in April 2010 is another significant addition to the facilities which CIT has to offer. The 800 seater stadium also boasts an indoor 60 metre 5 lanes track, ideal for training in all weather conditions.

Sports Bursaries and Scholarships

To underline its commitment to sport, CIT annually awards Sports Bursaries to a wide range of sports for Seniors and Freshers. The Senior Bursary is €1000 while the Fresher Bursary is €500. It is expected that those awarded the bursaries will have high levels of achievement in their chosen sport and a full involvement and participation in this sport in the Institute.

For 2009/2010 CIT awarded 26 Fresher/Development bursaries and 45 Senior bursaries and also oversaw the awarding of a further 11 Munster Council GAA Scholarships, 1 Cadbury GAA Bursary and 1 EMC GAA Bursary.

These awards reflect the Institute's commitment to the development of a comprehensive sporting policy. The closing date for receipt of application for the 2011/2012 academic year is 4pm on the 30th September 2011 and application forms for both Bursaries and Scholarships are available after 2nd August 2011, when you have secured a place on a full-time course, by writing to:

The Sports Office,
Cork Institute of Technology,
Bishopstown, Cork.
T: 021 432 6825

CIT Sports Awards 2010 recipients: Anne Marie Ryan, Camogie; Ursula Day and Gillian O'Brien, Ladies Gaelic Football; and (at rear) Billy Allen, Motorsport; Cathal Owens, Athletics; Ronan Kinane, Racquetball; and Ross McBride, Tae Kwon Do.

Societies

Societies Office
Education means more than just academic learning. The diversity of CIT Societies means that practically every taste is catered for. During the academic year 2009/2010, there were 40 Societies in operation in CIT.

Grab the opportunity to experience something new or pursue an interest you have always wanted to explore. Why not get involved in the Film or Music Society or get to know your class by getting involved in a course related Society. Societies cater for students from all disciplines in CIT providing an opportunity for social activities including karting, paintball, bowling, ice skating and many more.

What's more, Societies in CIT are some of the best Societies in Ireland frequently winning at the Board of Irish College National Societies Awards. Students who are at the heart of running CIT Societies have achieved the honour of winning both National `Society of the Year' and `Most Improved Society' in recent years.

Societies Website
Check out www.citsocieties.ie for the most up to date information on Societies in CIT or to find a CIT Society to suit you.

Societies in CIT are supported by:
- Societies Officer
- Sports & Societies Administrator

How to Join a Society?
Societies Day in September is your first opportunity to check out and sign up to a society. The purpose of the day is to encourage participation in Societies and to raise awareness of the huge variety of Societies available for you in CIT.

Contact
The Societies Office,
Cork Institute of Technology,
Bishopstown, Cork.
T: 021 432 6740

Laura O'Callaghan and Laura Kaci, Photographic Society.

International Links

Erasmus University Charter
CIT holds an Erasmus Extended University Charter, which facilitates student exchanges and placements, as well as staff mobility, with a number of partner institutions and training organisations in Europe. CIT students can spend one or two semesters on an Erasmus exchange at one of the partner institutions abroad. Students can also carry out a funded training period at enterprises or research facilities in other European countries.

In addition to mobility programmes, CIT co-ordinates and participates in a broad range of transnational projects, such as Erasmus Intensive Programmes, of one or two weeks' duration located at one of the partner institutions. During the current academic year, students have participated in Intensive Programmes in Utrecht in the Netherlands, and Lahti in Finland.

Further details on Erasmus exchange and placement opportunities can be found on the CIT website: www.cit.ie/international

George J Mitchell Peace Scholarship
CIT is a participant in the George J Mitchell Peace Scholarship scheme, which provides the opportunity for study exchanges with the Maine Community College System in the USA.

Contact
Margaret Mulderrig
CIT International Office
T: +353 21 432 6689
F: +353 21 432 6685
E: margaret.mulderrig@cit.ie

What the students say...

"I lived in Leppävaara, outside Helsinki for 4 months in 2009, and it was a life changing experience. Going to a different country and immersing yourself in the culture, is one of the best things you can do while in college. Metropolia University of Applied Sciences is a modern, technical university with strong links to industry, which was also a great place to study while abroad. I also got the opportunity to travel; Estonia, Lapland and St. Petersburg in Russia, all of which were exciting and interesting places to visit. I'd strongly recommend Finland as an Erasmus location, and I'll be going back myself one day."

- Jack Higgins, BSc Computing student, who spent a semester at the Metropolia University of Applied Sciences, Helsinki, Finland.

"With the year coming to an end, I'm reflecting on how great it has been here. A white wonderland in winter, and now with spring warming the water, and barbeques filling the air with an appetising aroma, I am sorry to be leaving Sweden so soon … I would whole heartedly encourage any student thinking of studying abroad to go for it!"

- Thomas Lynch, final year BBS honours degree student, who spent his 4th year on an Erasmus exchange at Blekinge Tekniska Hogskola, Karlskrona, Sweden.

AUSTRIA • BELGIUM • BRITAIN • CANADA • CZECH REPUBLIC • DENMARK • FINLAND
FRANCE • GERMANY • GREECE • HUNGARY • ICELAND • INDIA • ITALY • NETHERLANDS
NORWAY • ROMANIA • POLAND • PORTUGAL • SPAIN • SWEDEN • USA

Research and Postgraduate Studies

Through its research activities at undergraduate and postgraduate levels, CIT provides a platform for students to learn how to think independently, to solve problems and to make discoveries. As a CIT student, you will have opportunities to engage in different levels of research related work across a broad spectrum of disciplines and from fundamental research to working directly with industry.

A strong and vibrant research-academic community delivers opportunities for postgraduate studies and awards that fall into the following categories:

- ***Taught Masters***
- ***Research Masters***
- ***Doctorate (PhD)***

Programmes are available in Engineering, Science, Business, Humanities, the Arts and Music.

- A Taught Masters programme involves a combination of lecture attendance, dissertation and course work.
- A Research Masters involves project work under the supervision of a highly qualified research leader and is examinable by thesis.

CIT research staff and leaders have attracted funding for activities from industry and a wide range of National and European programmes. This means that in areas of CIT research interest and expertise, financial support in the form of payment of fees and student grants is available to successful master's programme applicants. The usual programme duration is 21 months from the date of admission to the Masters Research Register.

A Doctorate (PhD) follows the same process as that of a Masters but involves more advanced original research work. The minimum duration for a PhD is three academic years from the date of admission to the PhD register. There is also a facility to transfer from the Masters to the PhD register in most circumstances.

Please refer to Faculty/Departmental information for details of the programmes available, areas of CIT research interest and expertise, qualifying criteria and contact details. Postgraduate opportunities are advertised regularly in the local and national press and they are also posted on the Institute's website.

The CIT Research Community

The NIMBUS Centre provides space for up to 80 researchers, including facilities for undergraduate project students, visiting postgraduate students and researchers from other institutions and dedicated industry visitor workstations, already in use, where company researchers can work in close collaboration with NIMBUS staff and use NIMBUS research facilities. NIMBUS is CIT's first dedicated research centre and is intended not only to be a showcase for CIT's research but also to demonstrate CIT's ability to translate innovative research into economic benefit.

Research in the Institute is organised into three main groupings: Strategic Research Clusters, which are large multidisciplinary groups of researchers working on high-level research of strategic importance to the nation; Specialist Industry Centres which work closely with companies; and Individual researchers or small groups.

The Strategic Research Clusters are:

- **Networked Embedded Systems** based in the Faculty of Engineering. Research concentrates on how best to use wireless technology to improve our daily lives.
- **BioPharmaChem**
  Research is focused on understanding and controlling harmful bacteria, viruses and toxins.
- **Photonics** based in the Faculty of Science. Research develops light-emitting devices that will help to drive the next generation of the internet by communicating faster.

The **Specialist Industry Centres** are national resource centres. They provide independent expertise, advice and assistance to different sectors of industry, business and government bodies.

The main centres in the Institute are:

- Clean Technology Centre
- Centre for Advanced Manufacturing & Management Systems
- Technologies for Embedded Computing Centre
- Center for Applied Photonics and Process Analysis
- Medical Engineering Design and Innovation Centre
- Centre for Surface & Interface Analysis
- National Centre for Membrane Technology.

Other groups include:

- Astronomy and Instrumentation Group which operates Blackrock Castle Observatory and Ireland's first fully-interactive science and engineering exhibition
- Energy Engineering Group.

For more details, see www.cit.ie

Academic Services

Computing Facilities
Information Technology is a key aspect of our courses, and the Institute is equipped with the most up-to date systems to meet students' needs. All departments have specialised computer laboratories for design, analysis, problem-solving and presentation in every field of study. In addition, the Institute provides students with open access computing facilities (for example in the Information Technology Centre, through departmental facilities, and through computers in the library). There is an Institute-wide LAN (local area network), providing fast access to the Internet through these facilities. The Information Technology Centre contains ten high tech computing laboratories and walk-in open-access computing facilities, including Internet.

Library
The library provides books, journals, audio-visual and electronic information resources appropriate to all subjects taught in the Institute. The library's services are fully automated. The on-line catalogue can be searched on any internet-accessible computer (http://library.cit.ie/). The library makes available networked PCs to students and staff. All of these can access the OPAC (On-line Public Access Catalogue), and a number of them are designated specifically for Internet searching.

The library provides access to:

- online resources; including journals, standards, and reports
- electronic catalogues of world wide libraries
- 500 study places

Other libraries are located in CIT Crawford College of Art and Design, CIT Cork School of Music and the National Maritime College of Ireland in Ringaskiddy, Co. Cork.

study at cit **the basics**

CHOOSING A COURSE
CAO COURSES AT CIT
THE NATIONAL FRAMEWORK OF QUALIFICATIONS
MODULARISATION AND SEMESTERISATION
COURSE STRUCTURES
THE LADDER OF PROGRESSION
HOW TO APPLY
CAO SYSTEM
ENTRY REQUIREMENTS
CIT MATHEMATICS EXAM
NON-STANDARD APPLICANTS
ACCESS
FETAC AWARDS
FEES
LIFELONG LEARNING

Five Steps to Choosing a Third Level Course

Step 1: *YOU AND YOUR INTERESTS*

What areas of occupation are you interested in? Do you have a flair for writing, music, sport or science? What are your leisure interests? Identify your own preferences and strengths - whatever they may be. Ask a professional such as your guidance counsellor for a test of occupational interests and preferences.

Step 2: *SUBJECTS*

If you are preparing for or have sat the Leaving Certificate, there will be particular subjects that you like; (these are often the subjects you perform best at). Your list of subjects will help you to select broad areas for third level. Talk to your subject teachers and your guidance counsellor. Be realistic when you weigh up your strengths, but don't underestimate yourself.

Step 3: *GET THE FACTS*

There's a lot of reliable information available about careers and courses. You can get this from:

- handbooks, leaflets, career books and reliable websites such as Qualifax.ie
- teachers
- guidance counsellors
- parents
- talking to people working in the career
- friends and relatives whose judgement you trust
- your own work experience or summer job
- open days at colleges

Don't be slow to enquire. People know this is important to you, and they will help if you ask.

Step 4: *BE FLEXIBLE*

Be open minded and flexible. Look at broad careers, not narrow jobs. Many people change jobs several times during their working lives. Look at all the levels: higher certificates, degrees, and honours degrees. Remember, CIT will assist you to progress along our "Ladder of Progression" from one level to the next.

Step 5: *KNOW THE SYSTEM*

Most students enter third level through the CAO Points System. Talk to your parents, teachers and counsellors and with their help try to estimate your CAO points level. Once again, be realistic, but don't underestimate yourself. Remember, the CAO is just a selection mechanism based on supply and demand. If you end up with "points to spare", that's okay; what's important is to choose a course that matches what you want.

The Points System

When you are considering points levels for courses, please be cautious. Points levels change from year to year due to supply and demand for places. The points levels for the coming academic year cannot be predicted, and past points levels are given as a general guide only. Most important of all, do not judge the quality of a course or its employment value from its points level.

How to Succeed at CIT

Full-time study at CIT requires a full-time commitment from you. The combination of academic and practical subjects in many of our courses can make for a very busy timetable - usually between 20 hours and 30 hours per week. This schedule means that excellent class attendance and regular study are vital.

In other words - consistent study and effort from day one are the secret of success!

CAO HONOURS DEGREE (LEVEL 8) LIST

CAO Code	HONOURS BACHELOR DEGREES	Page
CR 105	Chemical and Biopharmaceutical Engineering	60
CR 106	Software Development	97
CR 108	Mechanical Engineering	65
CR 109	Structural Engineering	50
CR 112	Multimedia	115
CR 116	Software Development and Computer Networking	98
CR 121	Music (at CIT Cork School of Music) *	107
CR 150	Business Information Systems	29
CR 220	Fine Art and Ceramic Design (at CIT Crawford College of Art & Design) *	113
CR 305	Science (Common Entry)	85
CR 310	IT Management	99
CR 312	Web Development	100
CR 320	Biomedical Science (Joint CIT/UCC)	90
CR 325	Pharmaceutical Biotechnology	91
CR 330	Herbal Science	92
CR 333	Nutrition and Health Science	93
CR 340	Analytical Chemistry with Quality Assurance	95
CR 360	Instrument Engineering	87
CR 365	Environmental Science & Sustainable Technology	88
CR 400	Accounting	26
CR 420	Marketing	23
CR 500	Engineering (Common Entry)	49
CR 510	Sustainable Energy	67
CR 520	Biomedical Engineering	68
CR 560	Architectural Technology	56
CR 565	Interior Architecture	58
CR 570	Quantity Surveying	53
CR 572	Construction Management	52
CR 580	Electrical Power Systems	63
CR 590	Electronic Systems Engineering	61
CR 600	Visual Communications *	116
CR 660	Tourism	33
CK 606	Architecture (Joint CIT/UCC)	55

* Restricted Application/Early Assessment Procedures

CAO BACHELOR DEGREE/HIGHER CERTIFICATE (LEVEL 6 & 7) LIST

CAO Code	BACHELOR DEGREES	FOLLOW-ON COURSES AT CIT	Page
CR 001	Applied Physics & Instrumentation ▲	BSc (Honours) Degree	89
CR 006	Applied Biosciences ▲		
	Degree Award options: Food and Health Science or Applied Biosciences and Biotechnology	BSc (Honours) Degree	94
CR 007	Analytical & Pharmaceutical Chemistry ▲	BSc (Honours) Degree	96
CR 010	Agriculture ▲		31
CR 011	Horticulture		32
CR 016	Computing ▲	BSc (Honours) Degree	101
CR 021	Business Studies ▲		
	Degree Award options: Accounting or Business and Management or Marketing	BBus (Honours) Degree	24
CR 022	Business Administration ▲		
	Degree Award options: Administration or Business and Management or Marketing	BBus (Honours) Degree	30
CR 023	Accounting ▲	BBus (Honours) Degree	27
CR 031	Social Care	BA (Honours) Degree	41
CR 032	Recreation & Leisure ▲	BBus (Honours) Degree	42
CR 041	Tourism ▲	BBus (Honours) Degree	34
CR 042	Hospitality Management ▲	BBus (Honours) Degree	35
CR 046	Transport Management & Technology ▲	BSc (Honours) Degree	71
CR 051	Civil Engineering ▲	BEng (Honours) Degree	51
CR 052	Construction ▲		
	Degree Award options: Construction Management or Quantity Surveying	BSc (Honours) Degree	54
CR 053	Interior Architecture	BSc (Honours) Degree	59
CR 061	Electronic Engineering ▲	BEng (Honours) Degree	62
CR 062	Electrical Engineering ▲	BEng (Honours) Degree	64
CR 071	Mechanical Engineering ▲		
	Degree Award options: Mechanical Engineering or Manufacturing Engineering	BEng (Honours) Degree	66
CR 072	Building Services Engineering ▲	BSc (Honours) Degree	
		BEng (Honours) Degree	70
CR 075	Biomedical Engineering ▲	BEng (Honours) Degree	69
CR 090	Architectural Technology	BSc (Honours) Degree	57
CR 094	Nautical Science (at NMCI)	BSc (Honours) Degree	
		Ship's Master Level	76
CR 095	Marine & Plant Engineering (at NMCI)	Chief Engineer Level	77
CR 300	Science (Common Entry)	BSc (Honours) Degree	86
CR 620	Early Years Education	BA (Honours) Degree	43
CR 640	Culinary Arts	BBus (Honours) Degree	36
CR 650	Bar Management	BBus (Honours) Degree	37
CR 805	Marine Electrotechnolgy (at NMCI)		78

ENTRY	HIGHER CERTIFICATE	FOLLOW-ON COURSES AT CIT	
CR 655	Culinary Studies	BBus or BA Degree > BBus (Honours) Degree	38
CR 657	Hospitality Studies	BBus Degree > BBus (Honours) Degree	39
CR 659	Bar Supervision	BBus Degree > BBus (Honours) Degree	40
CR 888	Information Technology Support	BSc Degree > BSc (Honours) Degree	102

▲ Students who successfully complete Year 2 of programmes marked with "▲", and who do not wish to progress to the Year 3 will receive the Higher Certificate qualification.

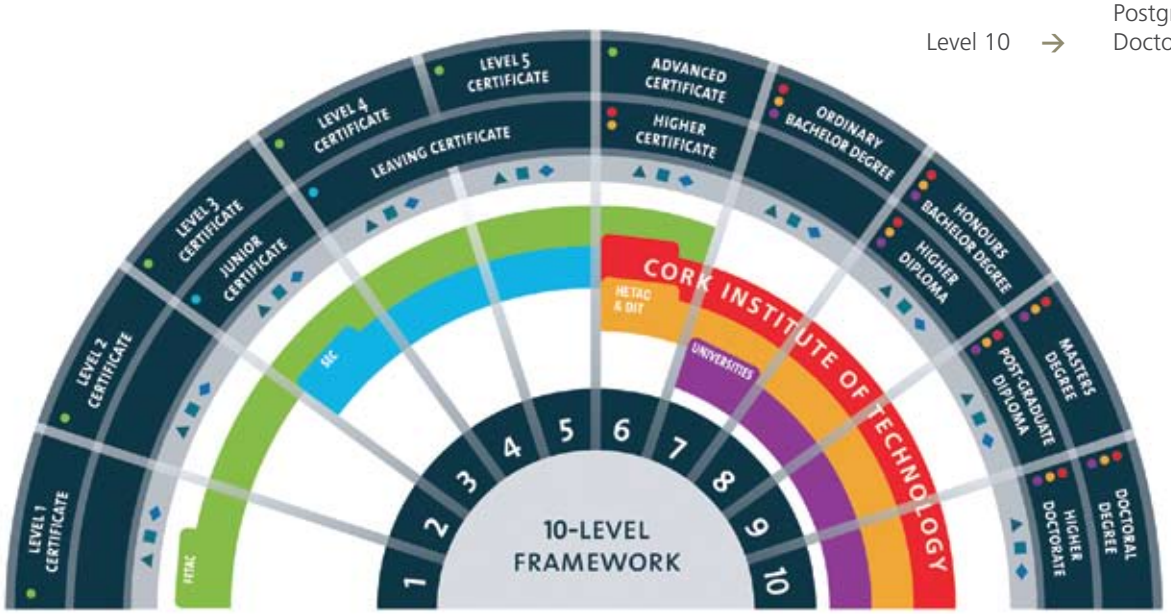
The National Framework of Qualifications

The Framework is an official national system for describing and linking all educational qualifications. The Framework has been established by the National Qualifications Authority of Ireland (NQAI), a state body set up under the Qualifications Act 1999.

At third level, the Framework describes and links all the qualifications awarded by Institutes of Technology and Universities.

The third level major award types (Level 6 to Level 10) are as follows:

Level 6	→	Higher Certificate
Level 7	→	Bachelor Degree
Level 8	→	Honours Bachelor Degree Higher Diploma
Level 9	→	Masters Degree Postgraduate Diploma
Level 10	→	Doctoral Degree (PhD)



Modularisation and Semesterisation

The Basics of Semesters and Modules

Semesters
Each year of a full-time course is divided into two equal parts called semesters. Each semester is of 15 weeks duration, including the assessments. Semester I typically begins in September and ends in January while Semester II begins in February and ends in May.

Modules
A module is a stand-alone unit of learning and assessment and is completed within one semester. A full time student will normally study 6 modules in each semester.

Credits
Credits are awarded to learners who successfully complete the assessments in a module. Each semester is worth 30 credits and a full-time year of study is worth 60 credits. This is in line with an international system called the European Credit Transfer System (ECTS).

The "CIT" Module - Creativity, Innovation and Teamwork
Every first year student, no matter what the course, takes this module in Creativity, Innovation and Teamwork. This is designed to motivate you for a lifetime of independent learning. The "CIT" module will also help you to map your way through the third level system.

Full details of every programme and module, including outcomes, content and assessment, can be found online at: http://modules.cit.ie

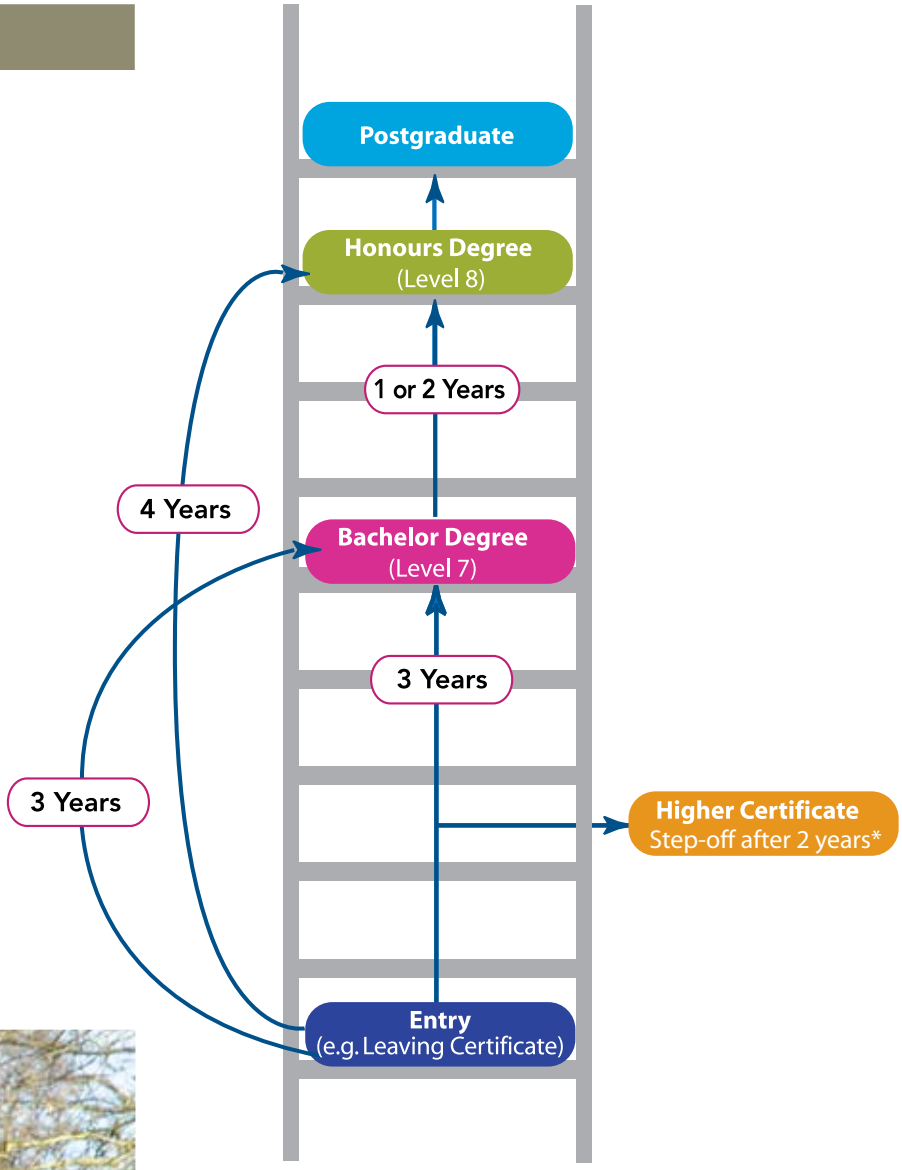
Course Structures at CIT

CIT has designed its courses in a very flexible way in order to give you the option of graduating at different levels – bachelor degree, honours degree, professional and postgraduate. This "Ladder" enables you to progress through the system to qualifications appropriate to your personal requirements.

Options at Entry
There are two main entry streams for full-time students.

CIT offers many **four year Honours Degrees**. Students commit to the full four year programme from the start. These courses are shown in the CAO Level 8 list.

Alternatively, we have a great variety of Bachelor **Degree programmes of three years duration**, which are shown in the CAO Level 7 list. Most of these degrees have the option to add on another year of study to gain an Honours Degree. Many of our three-year bachelor degree programmes also have an "exit option" after two years. Students who successfully complete Year 2 of these programmes and who do not wish to progress to Year 3 will receive a Higher Certificate Award.



* For many three-year Bachelor Degree courses, students who successfully complete year two and who do not wish to progress to year three will receive a Higher Certificate award.

CIT's Ladder of Progression

Progression from Bachelor Degree to Honours Bachelor Degree

There are over thirty honours degree courses on offer at CIT. Most of these can be accessed from the bachelor degree level. Progression from a bachelor degree to an add-on honours degree normally requires a 50% average in the bachelor degree examination. In some cases other requirements may apply. Further details are contained in the descriptions of particular courses in this handbook.

How to Apply

In this section you will find some basic information on how to apply for the full-time course of your choice. For reference purposes, there is much more detail in the Yellow Pages at the back of this Handbook.

- For all first year undergraduate full-time courses in CIT, you should apply through the Central Applications Office (CAO). Follow the procedures as laid down in the CAO Handbook 2011.
- For other courses see the 'Direct Entry Courses' in the Yellow Pages at the back of this Handbook.

The CAO Points System

Standard applicants for first year courses will be awarded points by applying the points scale in the table below to the results obtained in the Leaving Certificate Examination. This is the normal CAO points scale. The SIX best results in one sitting of the Leaving Certificate examination will be used for points calculation. Applicants are reminded that the points required for a course vary each year according to supply and demand for places. Please note that meeting the minimum entry requirements is a separate matter to the calculation of CAO points.

Leaving Certificate Grade	Higher Paper Points	Ordinary Paper Points
A1	100	60
A2	90	50
B1	85	45
B2	80	40
B3	75	35
C1	70	30
C2	65	25
C3	60	20
D1	55	15
D2	50	10
D3	45	5

Minimum Entry Requirements

The following is a general guide – requirements for particular courses may vary.

For most Degrees on the CAO Level 7 List:
(but see exceptions listed below)

- Leaving Certificate Grade D3 at Ordinary or Higher Level in 5 subjects including Mathematics and either English or Irish.

For most Honours Degrees on the CAO Level 8 List:
(but see exceptions listed below)

- Leaving Certificate with two higher C3 grades and 4 ordinary D3 grades, including Mathematics and either English or Irish.

Minimum entry requirements may be satisfied by the results of more than one Leaving Certificate.

The minimum entry requirements may be varied for Non-Standard Applicants and holders of FETAC awards; see the Yellow Pages at the back of this Handbook.

Exceptions

Minimum entry requirements for some CAO courses are different from the foregoing; examples are:

- Some BEng Honours Degree courses - CR105, CR108, CR109, CR500, and CR520
- BMus (Honours) CR121*
- Fine Art and Ceramic Design (Honours) CR220*
- BA (Honours) in Visual Communications CR600*
- BSc (Honours) in Biomedical Science CR320
- Courses in the National Maritime College of Ireland CR094, CR095, and CR805
- BBus (Honours) in Accounting CR400
- BA in Social Care CR031
- BBus in Accounting CR023
- BA in Early Years Education CR620
- BBus Recreation & Leisure Management CR032
- Higher Certificate in Culinary Studies CR655
- Higher Certificate in Hospitality Studies CR657
- Higher Certificate in Bar Supervision CR659

*Early Assessment Procedures apply

Full details of minimum entry requirements for courses are outlined in the relevant course information section of this Handbook. Applicants are advised to check the relevant subjects, tests and dates very carefully. In particular, there are early assessment procedures for some courses.

CIT Mathematics Exam

CIT will hold a Special Mathematics Examination in August 2011 for applicants who have expressed an interest in CIT Level 8 Engineering (Honours) Degree programmes that require certain minimum levels of performance in Mathematics. The purpose of the examination is to provide such applicants with a "second chance" opportunity to achieve these minimum Mathematics entry requirements.

How it Works
Example 1
The Honours Engineering degrees (CR105, CR108, CR109, and CR520) require a Higher C3 Mathematics grade in the Leaving Certificate. Alternatively, this requirement may be satisfied by:

- achieving a specified grade in the CIT Special Entrance Examination in Mathematics
  OR
- a HC3 in Leaving Certificate Applied Mathematics plus HD2 in Leaving Certificate Mathematics.

Example 2
The Common Entry Engineering programme CR500 requires a D3 or better in Leaving Certificate Higher Mathematics or an A2 or better in Leaving Certificate Ordinary Mathematics. This requirement may alternatively be satisfied by achieving a specified grade in the CIT Special Entrance Examination in Mathematics.

Important Information About the Special Entrance Examination in Mathematics
This examination is not obligatory and CAO points are not awarded. It is used only to establish a qualifying mathematics standard for certain CIT courses. It does not interfere in any way with any application you may have made to other courses or colleges within the CAO system.

If you think you may need to avail of this facility, you should check in the summer 2011 on the CIT website at www.cit.ie/maths for updates on the application procedure, syllabus, and sample papers.

Contact: *admissions@cit.ie*

Non-Standard Applicants

Special Category (Non-Standard) Applicants

CIT welcomes applications from Special Category Applicants. These are applicants who may be assessed on a basis different from the CAO Points System. There are six categories, detailed on Page 3 of the CAO Application Form. If you wish to be considered as a special category applicant you should tick the relevant box on Page 3 of the CAO form. For more information, see the Yellow Pages at the back of this Handbook.

Access

CIT is committed to ensuring that education is a basic right, not a privilege. Our Access Service believes that equal access, equal opportunities and equal treatment are key principles to support access to higher education.

The CIT Access Service is aimed at four main target groups;

- People who are socio-economically disadvantaged
- Mature Students
- Students with Disabilities
- Ethnic Minorities

The Access Service organises supports such as information sessions, school visits, parents' information sessions, student shadowing, induction programmes, the Mature Student Support Network and financial assistance.

See Yellow Pages at the end of this Handbook.

Contact
Deirdre Creedon
Access Officer
Tel: 021 433 5140
E-mail: deirdre.creedon@cit.ie

FETAC Awards: Admission to CIT

How FETAC Awards are graded in the CAO

FETAC operates within the National Framework of Qualifications, and its awards have been placed at Level 5 or Level 6 of the framework as appropriate. Holders of FETAC awards at Level 5 of the Framework of Qualifications should apply through the CAO system. An overall CAO point score is calculated based on results in the best 8 modules presented and this score is used to place applicants in the same rounds of CAO offers as Leaving Certificate applicants. FETAC applicants must present a full award containing 8 modules. This full award may be accumulated over more than one academic year. For more details, please see the Yellow Pages at the back of this Handbook.

Fees

Tuition Fees
Tuition Fees are covered by the terms of a government scheme under which the State pays the tuition fees of eligible full time, non-repeat undergraduate students (from Ireland and the EU) who are not previously graduates. Applicants are advised to check with the website www.studentfinance.ie/.

Student Services, Registration and Examination Fees
An annual fee*, set by the government for student services, registration and examinations is payable to the Institute. For students who have been notified that they have been awarded a TLT Grant, Higher Education Grant or VEC Scholarship, the fee is paid on their behalf by the grant authority. Other full time students must pay the fee by a specified date, of which they will be notified.
* (The fee in 2010/2011 is €1500)

Lifelong Learning & Part-time Study

If you are a mature student who is interested in studying at third level, CIT has a lot to offer you. There are opportunities in all the courses described in this Full-Time Handbook, plus hundreds more courses offered on a part-time or evening basis, which are described in the "CIT Continuing Education Courses 2010-2011" Handbook, or on the CIT website www.cit.ie

No Points Race for Mature Students

As a mature applicant (over 23) you can apply through the Central Applications Office (CAO) for a full-time course. The CAO points system will not be a barrier – you are treated as a "non-standard applicant" and you will be considered by CIT on the basis of your experience and suitability for the course.

Recognition of Prior Learning (RPL)

CIT has a process which allows you to get recognition for what you already know relevant to a particular programme of study. Your 'prior learning' can be what you have learned in training programmes, in courses or through your work and life experiences. By having this learning recognised you may be able to reduce the amount of time you need to study to get your qualification. For more details, please see the Yellow Pages at the back of this Handbook and the website http://www.cit.ie/rpl

Department of Continuing Education

Evening and Part-time Study
The Department of Continuing Education in CIT operates one of the largest programmes of part-time study in Ireland. This offers alternative routes to success through education, for example, for those who entered employment on completing their second-level education. Many courses leading to professional qualifications are also provided as well as short courses for industry. The Department provides approximately 160 courses leading to Higher Certificate, Bachelor Degree, Honours Bachelor Degree, Postgraduate, Professional and Trades qualifications.

The ACCS scheme operates for many of these courses. This means that you can accumulate credits and modules and build at your own pace towards a recognised degree.

Details of these courses are in CIT's Continuing Education Handbook 2010-2011, or on CIT's website www.cit.ie

Contact
Paul Mahony
Head of Department of Continuing Education
T: 021 432 6554
E: adulted@cit.ie

Educational Opportunities Department

CIT's Educational Opportunities Department has the general aim of increasing participation in higher education by people such as mature students and adults who wish to retrain or upgrade their qualifications.

Courses offered through the Educational Opportunities Department include:
- Higher Certificate in Business (Designed to equip mature students with skills and knowledge to avail of new business related employment opportunities).
- Higher Certificate in Science in Good Manufacturing Practice & Technology (This course aims to produce skilled technicians in the industrial sciences, with particular emphasis on manufacturing technology, an Accelerated Technician Course).

The Department operates a guidance and advisory service for those interested in pursuing its courses. For further information, see the Educational Opportunities Department pages in this Handbook.

business & **humanities** at a glance

CAO Courses

Level 8
CR 150 BBus (Honours) in Business Information Systems
CR 400 BBus (Honours) in Accounting
CR 420 BBus (Honours) in Marketing
CR 660 BBus (Honours) in Tourism

Level 7
CR 010 BSc in Agriculture
CR 011 BSc in Horticulture
CR 021 Business Studies
Degree Award options:
BBus in Accounting or
BBus in Business and Management or
BBus in Marketing
CR 022 BBus in Business Administration
Degree Award options:
BBus in Business Administration or
BBus in Business and Management or
BBus in Marketing
CR 023 BBus in Accounting
CR 031 BA in Social Care
CR 032 BBus in Recreation & Leisure Management
CR 041 BBus in Tourism
CR 042 BBus in Hospitality Management
CR 620 BA in Early Years Education
CR 640 BBus in Culinary Arts
CR 650 BBus in Bar Management

Level 6
CR 655 Higher Certificate in Arts in Culinary Studies
CR 657 Higher Certificate in Arts in Hospitality Studies
CR 659 Higher Certificate in Arts in Bar Supervision

Follow on Degrees

Level 8
BBus (Honours)
BBus (Honours) in Hospitality Management
BA (Honours) in Social Care
BA (Honours) in Early Years Education

Postgraduate Programmes

MBus (Taught)
MBus (by Research)
PhD

Marketing (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 420	At least two Leaving Certificate subjects at Grade C3 minimum (Higher Level) together with a further four subjects at Grade D3 minimum (Ordinary or Higher Level). The six subjects must include Mathematics and either English or Irish.	Brian McGrath Department of Management & Marketing T: 021 432 6640 E: brian.mcgrath@cit.ie

AWARD

Bachelor of Business (Honours) in Marketing

CR 420 **CAO Points 2009**
Round 1 Points 280
Final Points 250

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Business, Accounting, and Economics.

About Marketing
Marketing, the process responsible for identifying, anticipating and satisfying customer requirements profitably, is essential for business success. Marketing is important in building customer relationships as well as creating product awareness. Marketers must address what the company sells, what price it charges, how it promotes its products, and where it sells them. Marketing uses a sophisticated set of disciplines, requiring a broad understanding of technology, how to research and use data, plus a good grounding in a variety of social and business areas.

Year 1 provides the student with a foundation in core business subjects. Subsequent years will include instruction in buyer behaviour, marketing research, communications, information analysis, information technology, strategic marketing, international marketing, branding and advertising, sales operations and management, public relations, retailing, services marketing, and applications to specific products and markets.

There is an extensive range of career opportunities in areas such as Market Research, Brand Management, Advertising, Promotion, Direct Marketing, Services Marketing, International Marketing and Sales Management.

Further Studies
Honours graduates may be eligible to apply for a postgraduate degree at Master's level.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Introduction to Marketing
Behavioural Science 1
Business Mathematics & Statistics
Introduction to Microeconomics
Electives (Choose 1)
French 1
German 1.1
Italian 1.1
Spanish 1.1
Public and Business Institutions

SEMESTER 2
Introduction to IT
The Macroeconomy
Marketing Strategy Principles
Financial Accounting 1
Introduction to Selling
Electives (Choose 1)
French 2
German 2 with Communications
Italian 1.2
Spanish 1.2
Communications
Free Choice Module

Business Studies (Common Entry)

Level 7 CAO Code	Admission Requirements	Enquiries
CR 021	Leaving Certificate Grade D3 at Ordinary or Higher level in five subjects including Mathematics and either English or Irish.	Brian McGrath Department of Management & Marketing T: 021 432 6640 E: brian.mcgrath@cit.ie

AWARDS

Bachelor of Business in Accounting
Bachelor of Business in Business and Management
Bachelor of Business in Marketing

Students applying under CR 021 share a common Year 1. They will not be required to choose their preferred specialisation until the start of Year 2.

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Progress to Honours Degree

CR 021	CAO Points 2009
Round 1 Points	300
Final Points	300

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Business.

Helpful Leaving Certificate subjects
Accounting, Business, and Economics.

About Business
Business courses aim to provide a broad business education with many opportunities to specialise. The courses are designed to be employment oriented. They are structured to give an interesting variety of topics, choice of specialist areas and choice of levels of qualifications, and they also provide the necessary skills for those seeking to set up their own enterprises.

If you would like a broad range of business topics, with the opportunity to choose a business specialism such as Marketing, Business and Management or Accounting at a later stage, you should apply for CR 021.

The course is graded by continuous assessment of projects in addition to mid and end of module examinations. Lectures are supplemented by tutorials and case studies. Projects are an essential part of student development as they emphasise the importance of a properly developed and well researched business model.

Marketing graduates are qualified for positions in manufacturing and service industries. Their roles may be in marketing, sales, customer relations, market research or brand management.

Business and Management graduates have a broad range of abilities which may lead to employment, in an administrative capacity, in areas such as accounting, marketing, computing, banking, insurance, travel and retailing.

Accounting graduates obtain employment in areas such as banking, computing, insurance or general management. Many graduates obtain positions as accounting trainees, completing professional accountancy examinations on a part-time basis while in employment.

Further Studies
For details, see www.cit.ie

Subject to availability of spaces and specialisation, suitably qualified graduates are eligible to apply for entry to Year 4 (final) of

- → BBus (Honours) in Accounting
- → BBus (Honours) in Marketing
- → BBus (Honours)

The Honours Bachelor of Business Degrees satisfy the degree requirements of the Teaching Council. As with other degrees, a training and teaching qualification such as a HDip is also required.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Abina Kenneally
ACCOUNTANT

Abina graduated with a first class honours degree having specialised in Accounting. This in turn gave her valuable exemptions for the CPA professional examinations, which she completed as an evening student at CIT. Abina is an Associate Partner with O'Reilly McCarthy, and manages its taxation department. Her work is varied and incorporates both auditing and taxation for clients from individuals to large sized companies. Abina advises that it is important to be an organised and self-motivated person. "There's a lot of dedicated study required before your final qualification."

>>

Business Studies (Common Entry)

First Year Modules

SEMESTER 1

Creativity, Innovation and Teamwork
Behavioural Science 1
Business Mathematics and Statistics 1
Introduction to Microeconomics
Financial Accounting 1
Electives (Choose 1)
Public and Business Institutions
French 1
German 1.1
Italian 1.1
Spanish 1.1

SEMESTER 2

Behavioural Science 2
Business Mathematics and Statistics II
The Macroeconomy
Financial Accounting 2
Introduction to Information Technology
Electives (Choose 1)
Communications
French 2
German 2 with Communications
Italian 1.2
Spanish 1.2

Graduate **Profile**

Dave O'Rourke SENIOR MARKETING AND COMMUNICATIONS EXECUTIVE

"I graduated from CIT with a Bachelor Business (Honours) Degree and did a HDip in Marketing Practice in NUI Galway. I work for ABB - the world leading power and automation company and am responsible for the way ABB positions itself in the Irish market and for implementing its global marcomms strategies into the Irish organisation. CIT gave me an excellent, broad understanding for business and marketing. There was great support from the lecturing staff and CIT was a great social outlet for me with the many great sports clubs and societies. I feel the education and support I received in CIT set me on the correct path in my career and still stands to me today."

Business Options at CIT

ENTRY OPTIONS		AWARD LEVEL	DETAILS	ADD-ON LEVEL 8 QUALIFICATIONS
CR021	BUSINESS STUDIES	7	OPTION 1: ACCOUNTING	ACCOUNTING OR BUSINESS
			OPTION 2: BUSINESS AND MANAGEMENT	BUSINESS
			OPTION 3: MARKETING	MARKETING OR BUSINESS
CR022	BUSINESS ADMINISTRATION	7	OPTION 1: BUSINESS ADMINISTRATION	BUSINESS
			OPTION 2: BUSINESS AND MANAGEMENT	BUSINESS
			OPTION 3: MARKETING	MARKETING OR BUSINESS
CR023	ACCOUNTING	7		ACCOUNTING OR BUSINESS
CR150	BUSINESS INFORMATION SYSTEMS	8		
CR400	ACCOUNTING	8		
CR420	MARKETING	8		
CR010	AGRICULTURE	7		
CR011	HORTICULTURE	7		

PLEASE NOTE: CR021, CR022, CR023 and CR010: Students who successfully complete Year 2 and who do not wish to progress to Year 3 will receive a Higher Certificate award.

Accounting (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 400	Leaving Certificate in six subjects (including Mathematics and either English or Irish), three of which must be at least Grade C3 Higher Level and three at least Grade D3 Ordinary Level. Mathematics must be at least D3 Higher Level or B3 Ordinary Level.	Colm Barry Murphy Department of Accounting and Information Systems. T: 021 432 6415 E: colm.barrymurphy@cit.ie

AWARD

Bachelor of Business (Honours) in Accounting

CR 400 **CAO Points 2009**

Round 1 Points	360
Final Points	360

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Accounting, Business, and Economics.

About Accounting
All businesses need to record details of their trading transactions (e.g. sales and purchases) so that they know who owes them money and what money they owe. This information is also used to assess the financial 'health' of the business and to make plans for the future. On a day-to-day basis, accountants are involved in making many decisions necessary for the efficient operation of the business. Therefore, a well-run accounting function is critically important to the long-term management of a business. This course offers a firm base for either further academic study or for pursuing a professional qualification with one of the professional accountancy bodies.

Graduates will have received a broad business education and work for a variety of global, national and local accountancy firms such as KPMG, PWC, Ernst and Young, Deloitte and Touche and many others.

Upon successful completion of the Honours Degree, students gain exemptions from the professional accountancy bodies. Having successfully completed the professional accountancy exams, students can enter industry or stay in practice and work for a firm of accountants.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates may be eligible to apply for Postgraduate programmes at Masters level.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

- Creativity, Innovation & Teamwork
- Accounting & Computer Applications 1
- Business Management 1
- Introduction to Microeconomics
- Law
- Cost & Management Accounting 1

SEMESTER 2

- Accounting & Computer Applications 2
- Business Management 2
- Contract and Tort Law
- The Macroeconomy
- Introduction to Marketing
- Cost & Management Accounting 2

Graduate **Profile**

David Coughlan

"The Accounting course in CIT was really beneficial in preparing me for the work place. I work with KPMG in Cork, a leading professional services firm. I work in the Financial Services group in the Audit Department where my work mainly involves the audit of funds. I'm currently training to be a Chartered Accountant and hope to pass my ACCA exams in 2013. One of the best decisions I've made was choosing CIT and studying there has played a massive role in helping me to get to where I am today."

Accounting

Level 7 CAO Code	Admission Requirements	Enquiries
CR 023	Leaving Certificate in five subjects (including Mathematics and either English or Irish), three of which must be at least Grade C3 Higher Level and two at least Grade D3 Ordinary Level. Mathematics must be at least D3 Higher Level or B3 Ordinary Level.	Sylvia Dempsey Department of Accounting and Information Systems T: 021 432 6328 E: sylvia.dempsey@cit.ie

AWARD
Bachelor of Business in Accounting

hd
Progress to Honours Degree

CR 023 **CAO Points 2009**
Round 1 Points 330
Final Points 330

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Business in Accounting.

Helpful Leaving Certificate subjects
Accounting, Business, and Economics.

About Accounting
All businesses need to record details of their trading transactions (for example, sales and purchases) so that they know who owes them money and what money they owe. On a day-to-day basis, accountants are involved in making many decisions necessary for the efficient operation of the business. Therefore, a well-run accounting function is critically important to the long-term management of a business.

This course offers a firm base for either further academic study or for pursuing a professional qualification with one of the professional accountancy bodies.

Students who graduate with the Bachelor of Business (Accounting) will find an interesting range of job opportunities in a variety of accountancy practices or in industry. Most subjects focus in-depth on the accounting discipline.

Students are entitled to exemptions from the professional bodies on successful completion of this programme and further exemptions on successful completion of an Honours Degree.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to Year 4 (final) of
- → Bachelor of Business (Honours) in Accounting or
- → Bachelor of Business (Honours)

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Aisling Cahill
ACCOUNTANT

"Throughout my time in CIT, I received great support and career advice. Not only did I receive the accounting skills and knowledge base needed to launch a successful career - essential communication, interpersonal and team building skills were also incorporated into the course. I decided that management accounting was the area I wanted to specialise in and found the concept of working in industry very appealing. I'm currently studying for my CIMA exams where I got fantastic exemptions - a real head start due to CIT's well structured accounting programme. I am now working with the Kerry Group in a Commercial Accounting role for Spreads."

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Accounting & Computer Applications 1
- Business Management 1
- Introduction to Microeconomics
- Law
- Cost & Management Accounting 1

SEMESTER 2
- Accounting & Computer Applications 2
- Business Management 2
- Contract and Tort Law
- The Macroeconomy
- Introduction to Marketing
- Cost & Management Accounting 2

Accountancy Professional Bodies

Please Note: All exemptions are subject to periodic review by the bodies concerned.

CIT provides the Higher Certificate in Business; Higher Certificate in Business in Accounting; BBus in Accounting; BBus (Honours) in Accounting; and the BBus (Honours). These are full-time courses which lead to either partial or full exemption from examinations. For up to date information, please contact the relevant Accountancy Professional Bodies.

Accounting Exemptions

The professional bodies in the accountancy field are:

- The Chartered Institute of Management Accountants ***CIMA***
- The Institute of Certified Public Accountants in Ireland ***CPA***
- The Association of Chartered Certified Accountants ***ACCA***
- The Institute of Chartered Accountants in Ireland ***ICAI***

The Chartered Institute of Management Accountants

The Chartered Institute of Management Accountants provides an internationally recognised professional accountancy qualification which entitles the successful student to Chartered status as a professional accountant.

The syllabus is made up of three elements:

1. The Managerial level - six exams;
2. The Strategic level - three exams;
3. The Test of Professional Competence in Management Accounting (TOPCIMA) - one exam based on a case study.

Enquiries

The Chartered Institute of Management Accountants,
45-47 Pembroke Road,
Ballsbridge,
Dublin 4.
T: (01) 643 0400
E: dublin@cimaglobal.com
or
Sylvia Dempsey,
Department of Accounting and Information Systems.
T: 021 432 6328
E: sylvia.dempsey@cit.ie

The Institute of Certified Public Accountants in Ireland

With over 5,000 members and students, the Institute of Certified Public Accountants in Ireland is one of Ireland's main accountancy bodies. The CPA qualification is recognised as equivalent to those of other statutory bodies in the EU and the qualification is included in the EC Directive on the recognition of professional qualifications - the Mutual Recognition Directive (89/48/EEC).

To qualify as a Certified Public Accountant requires passing four examinations i.e. Foundation 1, Foundation 2, Professional 1 and Professional 2.

CPA students are required to complete a minimum of 3 years relevant supervised training. CPA training can be gained in practice, in 'industry' or through a combination of both.

Enquiries

The Institute of Certified Public Accountants in Ireland,
17 Harcourt Street,
Dublin 2.
T: +353 1 425 1000
or
Gerard Forde,
Department of Accounting and Information Systems.
T: 021 432 6328
E: gerard.forde@cit.ie

The Association of Chartered Certified Accountants

Membership of the ACCA is internationally recognised as a professional accounting qualification. The ACCA Qualification is designed to provide the accounting knowledge, skills and professional values which will deliver finance professionals who are capable of building successful careers across all sectors, whether they are working in the public or private sectors, practising in accounting firms, or pursuing a career in business. In order to qualify as an ACCA member, you will complete:

- 14 exams (nine of which are eligible for exemption);
- relevant practical experience, with a minimum of three years;
- a Professional Ethics module.

Enquiries

Students' Department,
The Association of Chartered Certified Accountants,
9 Leeson Park,
Dublin 6.
T: (01) 498 8900
E: students@ie.accaglobal.com
or
Colm Barry-Murphy
Department of Accounting and Information Systems.
T: 021 432 6415
E: colm.barrymurphy@cit.ie

The Institute of Chartered Accountants in Ireland

The Institute of Chartered Accountants was founded in 1888. Its members are in professional practice and in all types of industry including public practice, information systems, financial management, financial services, corporate finance and treasury management in industry, in commerce or in the public service.

Every successful CA must:

- Gain work-experience under a training contract with a Recognised Training Organisation;
- Pass professional exams (CA Proficiency 1, CA Proficiency 2 (or Professional 3) and the Final Admitting Exam);
- Demonstrate competence in Information Technology.

Enquiries

ICAI,
Chartered Accountants House,
47-49 Pearse Street,
Dublin 2
T: (01) 637 7200
or
Sylvia Dempsey,
Department of Accounting and Information Systems.
T: 021 432 6328
E: sylvia.dempsey@cit.ie

Business Information Systems (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 150	At least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at grade D3 minimum (Ordinary or Higher Level). The six subjects must include Mathematics and either English or Irish.	Don Crowley Department of Accounting and Information Systems T: 021 432 6328 E: don.crowley@cit.ie

AWARD

Bachelor of Business (Honours) in Business Information Systems

CR 150 **CAO Points 2009**
Round 1 Points 310
Final Points 310

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Accounting, Economics, Mathematics, and Business.

Work Placement
Students are required to complete a work placement (typically ranges from three to six months) in a systems related function in business. It will involve a set of agreed objectives for your placement, as well as the assistance of a person on site and a member of the academic staff at CIT.

About Business Information Systems
The aim of the honours degree is to educate and train students in a wide range of Business and Information Systems skills. Business Information Systems involves a strong mix of business related and technology related topics. This will include a knowledge of systems integration; management; marketing; accounting and management accounting; information communication technology strategy; computer applications; enterprise resource planning systems; legal studies; entrepreneurship; international business; project management and systems analysis and development. The course is assessed by end of module examination and through a significant amount of continuous assessment and project work throughout the four years.

The graduate develops a large range of skills and abilities which may lead to employment in diverse jobs/areas such as a Systems Analyst; Project Manager; Management Consultant; Systems Administrator; Webmaster; Business Analyst; Customer Relationship Management; Management Accountants; Purchasing and Supply Chain Management; Logistics; Business Development Manager; Enterprise Systems Manager; Operations Management; Financial Analyst; Marketing and Market Research across a large variety of industries, including manufacturing, food processing, software, as well as banking and financial services. Starting salary (general guideline only): €25,000 - €50,000.

Further Studies
For details, see www.cit.ie

Honours graduates may be eligible to apply for a post-graduate programme at Masters Level.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Daniel Mulcahy
BUSINESS ANALYST

"At second level, my attributes were in business subjects and I had a strong interest in IT. The main reason I would recommend CIT to prospective students would be the invaluable support system offered by the lecturers. I secured a position in BearingPoint in Dublin, which is one of the world's largest providers of management and technology consulting services to Global 2000 companies and government organisations in 60 countries."

First Year Modules

SEMESTER 1
- Creativity, Innovation and Teamwork
- Business Management 1
- Essentials of Business Programming 1
- Mathematics and Statistics for IS 1
- Business Information Systems 1
- Accounting Systems 1

SEMESTER 2
- Business Management 2
- Essentials of Business Programming 2
- Mathematics and Statistics for IS 2
- Business Information Systems 2
- Accounting Systems 2
- *Electives (Choose 1)*
- *Communications*
- *Free Choice Module*

Business Administration

Level 7 CAO Code	Admission Requirements	Enquiries
CR 022	Leaving Certificate Grade D3 at Ordinary or Higher level in five subjects including Mathematics and either English or Irish.	Finbarr Sheehan Department of Accounting and Information Systems T: 021 432 6673 E: finbarr.sheehan@cit.ie

AWARDS

Bachelor of Business in Business Administration
Bachelor of Business in Business and Management
Bachelor of Business in Marketing

hd
Progress to Honours Degree

CR 022 **CAO Points 2009**
Round 1 Points 265
Final Points 265

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Business in Business Administration.

Helpful Leaving Certificate subjects
Business, English, Mathematics, and Languages.

Work Placement
Students taking the Business Administration specialisation in Year 3 have a minimum 15 week work placement which involves working in an administrative function in a business. It involves a set of agreed objectives for the placement, as well as the assistance of a person on site and a member of the academic staff at CIT.

About Business Administration
Business Administration consists of the performance or management of business operations and thus the making or implementing of major decisions. The course aims to provide students with the technologies and practices which are essential to manage in a modern organisational environment.

The course is taught through lectures, tutorials and workshops. There is a strong emphasis on practical work. The course is graded by end of module examinations as well as continuous assessment.

On successful completion of Year 2, students can continue on the Bachelor of Business in Business Administration or students may opt to transfer to the Bachelor of Business in Business and Management or the Bachelor of Business in Marketing. These degrees are described in the section on Business, CR 021, in this Handbook.

Business Administration graduates undertake a wide range of administrative duties and may obtain employment in areas such as office administration, financial services, banking, insurance, travel, translation, desktop publishing, customer service, health service, local authorities, customer contact centres and fund services.

Further Study Option
For details, see www.cit.ie

Qualified students are eligible to apply for an Honours Bachelor Degree course, subject to availability of places.

Graduate **Profile**

Colm Murphy
MARKETING EXECUTIVE

Colm commenced studying Business Administration and specialised in Marketing in his third year. He furthered his studies with an Honours Degree in Business and progressed to a Postgraduate Higher Diploma in Marketing Practice. Colm's first position was as a Marketing Executive with VME Retail Systems Ltd. and has recently taken up a position in Oracle, where he is responsible for promotion, brand management and databases.

First Year Modules http://modules.cit.ie

SEMESTER 1
Creativity, Innovation & Teamwork
Text Processing 1
Information Technology for Administrators 1
Accounting 1
Introduction to the Web
Electives (Choose 1)
Business Mathematics & Statistics I
Behavioural Science 1
French 1
German 1.1
Italian 1.1
An Ghaeilge

SEMESTER 2
Text Processing 2
Business Information Technology 1
Communications
Office Management
Financial & Cost Accounting
Electives (Choose 1)
Behavioural Science 2
French II
German 1.2
Italian 1.2
Business Mathematics & Statistics II
Free Choice Module

Agriculture

Level 7 CAO Code	Admission Requirements	Enquiries
CR 010	Leaving Certificate Grade D3 at Ordinary or Higher level in five subjects including Mathematics and either English or Irish.	Marie Dorgan Department of Accounting & Information Systems T: 021 432 6328 E: marie.dorgan@cit.ie John Mulhern Clonakilty Agricultural College T: 023 883 2511 E: john.mulhern@teagasc.ie

AWARD
Bachelor of Science in Agriculture

This course is presented under a partnership arrangement between Cork Institute of Technology and Clonakilty Agricultural College, Co. Cork.

CR 010 **CAO Points 2009**
Round 1 Points 260
Final Points 240

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Science in Agriculture.

Helpful Leaving Certificate subjects
English, Mathematics, Biology, and Agricultural Science.

Work Placement
Students are required to complete a minimum 15 week work placement in Year 2 in an agriculture related business. It will involve a set of agreed objectives for your placement, as well as the assistance of a person on site and a member of the academic staff at Clonakilty Agricultural College or CIT.

Students can travel on work placement to international destinations like New Zealand, Australia, USA, or UK. It is a fantastic opportunity for students to travel and learn simultaneously. Placement can also be organised in Ireland.

About Agriculture
Agriculture is of major importance in the Irish economy. The agri-food sector contributes significantly to the GDP, employment and exports.

The course is unique in its mix of knowledge and skill in two normally distinct disciplines – science and business. Students attend both Cork Institute of Technology and Clonakilty Agricultural College throughout the course. In Year 1, students spend four days in Clonakilty and one day in CIT. In Year 2, the students spend three days in Clonakilty and two days in CIT. In Year 3 of the programme, students spend four days in CIT and one day in Clonakilty.

The course develops farming, business and management skills to enable graduates to follow careers as successful commercial farmers or in the agri-business sector. It will provide graduates with the skills they will need to be able to participate actively in policy decisions – whether they are local, regional or international – which will influence their profession and its role in a modern economy.

Further Studies
The course enables graduates to proceed to follow on honours degree courses or gain significant exemptions from honours degree courses in Ireland or abroad.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Ivan Deane
QUALITY CONTROL

Ivan graduated from CIT with a BSc in Agriculture. "Alternating between CIT and Clonakilty Agricultural College was very beneficial as it gave me an in-depth view of the practical side of agriculture while ensuring that the theory and business end was covered also."

Using his qualification, Ivan began work with Shannonvale Foods in Clonakilty where his role is based in Quality Control. He ensures that the high standards of excellence are maintained through monitoring and controlling of the manufacturing processes at the company.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Biology
- Farm Business Management 1
- Agricultural Mechanisation 1
- Crop Science 1
- Animal Management 1

SEMESTER 2
- IT & Mathematics
- Food Science
- Farm Business Management 2
- Crop Science 2
- Animal Management 2
- *Electives (Choose 1)*
- *Agricultural Mechanisation 2*
- *Free Choice Module*

Horticulture

Level 7 CAO Code	Admission Requirements	Enquiries
CR 011	Leaving Certificate Grade D3 at Ordinary or Higher level in five subjects including Mathematics and either English or Irish.	Caroline O'Reilly Department of Accounting & Information Systems T: 021 432 6672 E: caroline.oreilly@cit.ie John Mulhern Clonakilty Agricultural College T: 023 883 2511 E: john.mulhern@teagasc.ie

AWARD
Bachelor of Science in Horticulture

This course is presented under a partnership arrangement between Cork Institute of Technology and Clonakilty Agricultural College, Co. Cork.

CR 011 **CAO Points 2009**
Round 1 Points 230
Final Points AQA

Full-time course duration
3 Years (6 Semesters)

Helpful Leaving Certificate subjects
English, Mathematics, and Biology.

Work Placement
Students are required to complete a work placement in Year 2 in a horticulture related business. It will involve a set of agreed objectives for the placement, as well as the assistance of a person on site and a member of the academic staff at Clonakilty Agricultural College or CIT.

About Horticulture
Horticulture is the science and technology of plant cultivation. There are two distinct areas within horticulture.

- **Amenity**: This includes landscape design along with constructing and maintaining parks, public areas, sports grounds, recreation facilities and roadsides. Interior landscaping is a specialism within amenity horticulture which is concerned with the design, installation, and maintenance of plantings in shopping centres, office buildings, hotels, residences, etc.

- **Commercial**: This involves growing crops for sale. Crops include fruit and vegetables, nursery stock and bedding plants.

Career options in Horticulture include; Retail Nursery and Garden Centre Management; Tree Management/ Arborist; Turf Management; Wholesale Nursery Producer; Environmental Planning; Landscape Design and Construction; Parks and Gardens Management; Flower Production and Research.

The course is unique in its mix of knowledge and skill in three normally distinct disciplines – business, science and art. Students attend both Cork Institute of Technology and Clonakilty Agricultural College throughout the course. In Year 1, students spend four days in Clonakilty and one day in CIT. In Year 2, the students spend three days in Clonakilty and two days in CIT. In Year 3 of the programme, students spend four days in CIT and one day in Clonakilty. Timetables vary slightly from one semester to the next and students must be flexible in terms of travel arrangements.

Further Studies
Suitably qualified graduates may proceed to follow on honours degree courses or gain significant exemptions from honours degree courses in Ireland or abroad.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Farm Business Management 1
- Horticulture Principles
- Agricultural Mechanisation 1
- Botany
- Introduction to Amenity Horticulture

SEMESTER 2
- Farm Business Management 2
- Horticulture Systems
- Computing Skills
- Food and Environmental Science
- Landscape Planning and Construction
- Grounds & Turf Grass Maintenance

Clonakilty Agricultural College

Tourism (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 660	Leaving Certificate in six subjects (including Mathematics and either English or Irish), two of which must be at least Grade C3 Higher Level and four at least Grade D3 Ordinary Level.	Kathleen Griffin Department of Tourism & Hospitality Studies T: 021 432 6136 E: kathleen.griffin@cit.ie

AWARD

Bachelor of Business (Honours) in Tourism

CR 660 **CAO Points 2009**

Round 1 Points	255
Final Points	255

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

A European language, Geography and Business Subject(s).

About Tourism

Tourism is a dynamic global industry through which people experience the culture, heritage, environment of other countries whether they are travelling for leisure, adventure or business. Tourism involves the management and operation of a wide array of businesses ranging from airlines, hospitality providers, cruise and ferry operations, tour operations, visitor and heritage attractions, travel agencies and tourism development organisations. Graduates can expect to progress to management, marketing and entrepreneurial careers in tourism and the tourism related businesses.

The course is delivered in semesterised and modularised format. Learning is based around class delivered lectures, field trips, practical lab classes, group and individual project work, and guest speakers from the field of tourism.

The course prepares students for management and supervisory positions in all sectors of tourism and service businesses.

Further Studies

Suitably qualified students may progress to a Masters Degree at CIT, and subsequently to Doctoral Studies leading to the award of a PhD.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

Creativity, Innovation & Teamwork
Introduction to Information Technology
Management Principles for Services
Tourism Principles & Practice
Group Elective (Choose 1)
French 1
Italian 1.1 (Beginners)
German 1.1 (Beginners)
Spanish 1.1 (Beginners)
English for Speakers of other Languages
Elective
Irish Tourism Experience 1

SEMESTER 2

Behavioural Science for Tourism
Economics for Services
Tourism Principles & Practice 2
Tourism IT Applications
Group Elective (Choose 1)
French 2 (Tourism)
Italian 1.2
German 1.2
Spanish 1.2
English for Speakers of other Languages 2
Electives (Choose 1)
Irish Tourism Experience 2
Hospitality Studies
Free Choice Module

Tourism

Level 7 CAO Code	Admission Requirements	Enquiries
CR 041	Leaving Certificate Grade D3 at Ordinary or Higher Level in 5 subjects including Mathematics and either English or Irish.	Aisling Ward Department of Tourism & Hospitality Studies T: 021 432 6363 E: aisling.ward@cit.ie

AWARD

Bachelor of Business in Tourism

hd
Progress to Honours Degree

CR 041 **CAO Points 2009**
Round 1 Points 240
Final Points 240

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Business in Tourism.

Helpful Leaving Certificate Subjects
Business Subjects, European Language, and Geography.

About Tourism
This course has a strong marketing and language element to equip students with the practical business and commercial skills needed in the industry.

Graduates are equipped with an insight and understanding of the operational and managerial aspects associated with the day-to-day operation of a tourism business. There are career opportunities in the promotion, planning and development of tourism projects and in the conservation of Ireland's natural and man made heritage. Many graduates progress to managerial and entrepreneurial positions in travel operations and travel agencies, in government and semi-state bodies, with airline and sea carriers and as tourism officers.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to Year 4 of
→ Bachelor of Business (Honours) in Tourism.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Introduction to Information Technology
Management Principles for Services
Tourism Principles & Practice
Group Elective (Choose 1)
French 1
Italian 1.1
German 1.1 (Beginners)
Spanish 1.1 (Beginners)
English for Speakers of other Languages 1
Elective
Irish Tourism Experience 1

SEMESTER 2
Behavioural Science for Tourism
Economics for Services
Tourism Principles & Practice 2
Tourism IT Applications
Group Elective (Choose 1)
French 2 (Tourism)
Italian 1.2
German 1.2
Spanish 1.2
English for Speakers of other Languages 2
Electives (Choose 1)
Irish Tourism Experience 2
Hospitality Studies
Free Choice Module

Graduate **Profile**

Shirley Kingston
PROJECT CO-ORDINATOR

Shirley has worked with Fáilte Ireland in Milan through the Leonardo Programme; as Tourism Development Officer in North Cork, and with Fáilte Ireland on tourism training projects. Her current role involves the business development of the smaller tourism enterprise through the Tourism Learning Networks initiative by Fáilte Ireland. The job involves coordinating and identifying development needs and skills, organising training programmes and seminars, and promoting training and development initiatives within the tourism sector.

Hospitality Management

Level 7 CAO Code	Admission Requirements	Enquiries
CR 042	Leaving Certificate Grade D3 at Ordinary or Higher Level in 5 subjects including Mathematics and either English or Irish.	Séamus Forde Department of Tourism & Hospitality Studies T: 021 432 6129 E: seamus.forde@cit.ie

AWARD

Bachelor of Business in Hospitality Management

hd
Progress to Honours Degree

CR 042	CAO Points 2009
Round 1 Points	230
Final Points	230

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Business in Hospitality Management.

Helpful Leaving Certificate subjects
English, Mathematics, and Business Subject(s).

Work Placement
Between first and second year, there is an organised work placement (minimum of 12 weeks) in a quality hospitality establishment in Ireland and increasingly with the option of an international placement. The placement will be matched to the student's area of interest and skill level. The work placement is a formal component of the programme and is awarded academic marks and credits.

About Hospitality Management
Providing professional hospitality involves both the social skills of a warm welcoming customer-friendly manner and the technical skills of food preparation, guest accommodation & reception, wine and beverage service together with a deep understanding of management and business organisation.

The course emphasises a creative, inventive, organised and entrepreneurial approach to a career in the hospitality industry. There is a strong focus on student centred learning and teaching methods include formal lectures, tutorials, and practical operations classes which equip the student with the core skills necessary for a career in the Hospitality sector. Many classes combine both individual and team project work and they are supported by a range of visiting speakers, industry visits, and field trips.

Graduates will specialise in areas of the hospitality business such as food & beverage management, conference & banqueting management or rooms division management. Others may become involved in sales & marketing, human resources management, training and development, or financial control. Others will aspire to senior general management positions or become involved in entrepreneurial activities and starting their own businesses. Starting salary (general guideline only): €22,000 - €26,000.

Accreditation
Bachelor Degree graduates are eligible to become members of the Irish Hospitality Institute.

Further Studies
For details, see www.cit.ie

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

First Year Modules http://modules.cit.ie

SEMESTER 1

Creativity, Innovation & Teamwork
Food Operations 1
Rooms Division and Bar 1
Accounting and Costing for Hospitality
Introduction to Information Technology
Electives (Choose 1)
Hospitality and Tourism
French 1
Italian 1.1 (Beginners)
German 1.1 (Beginners)
Spanish 1.1 (Beginners)
English for Speakers of other Languages 1

SEMESTER 2

Food Operations (2)
Rooms Division and Bar (2)
Business Mathematics for Hospitality Management
Economics for Services
Management Principles
Electives (Choose 1)
Hospitality & Professional Development
French 2 (Tourism)
Italian 1.2 (Beginners)
German 1.2 (Beginners)
Spanish 1.2 (Beginners)
English for Speakers of other Languages 2
Free Choice Module

Graduate **Profile**

Dan Murphy
HOTEL GENERAL MANAGER

One of the finest hotels in Galway is managed by Dan Murphy. After graduating from CIT, Dan was based at the Hilton Hotel in Chicago for five years where he went from Barman to Bar Supervisor to Banqueting and Conference Manager. He is now General Manager in the Galway Bay Hotel. Dan praises the industry placement system on the course, which sent him to two prestige hotels in Ireland for several months at a time - Adare Manor and Ashford Castle. Dan was recently awarded the Irish Hospitality Institute Award of Hotel Manager of the Year.

Culinary Arts

Level 7 CAO Code	Admission Requirements	Enquiries
CR 640	Leaving Certificate Grade D3 at Ordinary or Higher Level in 5 subjects including Mathematics and either English or Irish.	Catherine O'Mahony Department of Tourism & Hospitality Studies T: 021 432 6677 E: catherine.omahony@cit.ie

AWARD

Bachelor of Business in Culinary Arts

hd
Progress to Honours Degree

CR 640	CAO Points 2009
Round 1 Points	300
Final Points	300

Full-time course duration
3 Years (6 Semesters)

Helpful Leaving Certificate subjects
English, Mathematics, Business Subject(s), and Home Economics.

Work Placement
At the end of Year 1 and Year 2, there is an organised work placement in a quality hospitality establishment in Ireland and increasingly with the option of an international placement.

About Culinary Arts
The culinary arts may be defined as the study of food and wine and its impact on our society and way of life. The culinary arts contribute significantly to the worldwide hospitality and tourism industries. Practitioners of the culinary arts include restaurateurs, chefs, food critics, gourmets and educationalists.

A key aim is a well-educated graduate with the ability to learn and change to meet new challenges in their education and professional development. There is a strong focus on student centred learning. Teaching methods include formal lectures, tutorials and both individual and team project work.

Typical positions include:

- Executive Chef
- Pastry and Confectionary
- Culinary Managers in the industrial sector
- Culinary Arts Training and Education
- Food Writing and Styling
- Food Marketing, Promotion and Sales
- Food Product Development

Starting salary (general guideline only): €22,000 - €26,000.

Further Studies
For details, see www.cit.ie

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

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

Creativity, Innovation & Teamwork
Culinary Arts Principles
Culinary Arts Operations: Larder & International Cuisine
Principles of Culinary Food Safety
Management Principles for Services
Introduction to Information Technology

SEMESTER 2

Culinary Arts Operation
Culinary Production and Food service
Applied Principles of Kitchen Design and Sustainability
Business Mathematics for Hospitality Management
Economics for Services
Electives (Choose 1)
Culture and Origin of Food
Introduction to Wine Appreciation and Service
Free Choice Module

Graduate **Profile**

Aoife Cameron

Aoife studied the BBus in Culinary Arts which she described as a very versatile programme which covered a wide range of subjects. She subsequently continued her studies and graduated with a BBus (Honours) in Hospitality Management. She has appeared as one of the students profiled on the RTE TV programme, The Master's Apprentice. Aoife has worked in the renowned L'Ecrivain Restaurant in Dublin where she developed a keen interest in wines which she hopes will complement her career options in the future.

Bar Management

Level 7 CAO Code	Admission Requirements	Enquiries
CR 650	Leaving Certificate Grade D3 at Ordinary or Higher Level in 5 subjects including Mathematics and either English or Irish.	Tom Kelly Department of Tourism & Hospitality Studies T: 021 432 6677 E: tom.kelly@cit.ie

AWARD

Bachelor of Business in Bar Management

hd
Progress to Honours Degree

CR 650 **CAO Points 2009**

Round 1 Points	250
Final Points	250

Full-time course duration

3 Years (6 Semesters)

Helpful Leaving Certificate subjects

English, Mathematics, and Business Subject(s).

Work Placement

At the end of Year 1, there is an organised and monitored work placement in a quality licensed hospitality establishment in Ireland. The placement is from mid-May to the end of August, where the learner has the opportunity to apply the knowledge, insight and skills gained to the practices of the work place under the guidance of an experienced industry professional.

About Bar Management

This innovative three-year course emphasises a creative, organised and entrepreneurial approach to bar management. The course develops students' knowledge of the concepts and the processes that are essential to sound managerial practice as well as imparting the operational skills of drinks service and stylish food preparation and service.

Professional Bar Management is part of the worldwide growth in the tourism and hospitality industry and offers extensive opportunities for employment and enterprise creation.

Graduates can work in Ireland or abroad. This bachelor degree offers students the opportunity to acquire appropriate managerial skills and techniques that will enable them to be effective and efficient in bar management and the related food and entertainment industries.

Typical positions include:

- Bar Management
- Bar Training and Education
- Wine Retailing
- Stock and Financial Control
- Entrepreneurship/Bar Business ownership
- Club Management

Starting salary (general guideline only): €22,000 - €26,000.

Further Studies

For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to the one year add-on

- Bachelor of Business (Honours) in Hospitality Management.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

Creativity, Innovation & Teamwork
Introduction to Licensed Trade Operations
Food Service Operations for the Licensed Trade
Licensed Premises Regulations
Management Principles for Services
Introduction to Information Technology

SEMESTER 2

Licensed Trade Operations
Bar Food Operations
An Introduction to Wine Appreciation and Service
Business Mathematics for Hospitality
Economics for Services
Electives (Choose 1)
Communications
Free Choice Module

CIT's Bar Training Facilities

Culinary Studies

Level 6 CAO Code	Admission Requirements	Enquiries
CR 655	Grade D3 at ordinary level in five subjects including English or Irish. Mathematics must be passed at grade D3 ordinary or Grade B2 at Foundation Level or better. **FETAC awards accepted:** Any full FETAC Level 5 award is acceptable.	Liam Noonan Department of Tourism & Hospitality Studies T: 021 432 6677 E: liam.noonan@cit.ie E: hospitality@cit.ie

AWARD

Higher Certificate in Arts in Culinary Studies

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Progress to Degree and to Honours Degree

CR 655 CAO Points
New CAO Course Entry 2010

Full-time course duration
2 Years (4 Semesters)

Special Category Applications
Mature students (23 yrs on the 1st January on year of entry to the Course) and holders of the Leaving Certificate Applied with one year's relevant industrial experience may apply as Special Category Applicants through the CAO. They may be required to undertake an Institute interview.

Helpful Leaving Certificate subjects
English, Mathematics, Business Subject(s), and Home Economics.

Work Placement
Formal work experience is provided over the summer period between years 1 and 2. All students will have a formal, paid work placement in a good quality hotel or restaurant kitchen, which will be matched to the student's area of interest and skill level, where they will work under the guidance of an expert chef. The work placement is a formal component of the programme and is awarded academic marks and credits. The duration of the placement is a minimum of 12 weeks.

About Culinary Studies
This course is designed to meet the requirements of students who wish to pursue careers as Professional Chefs. It provides the perfect learning for a career in the wide world of cookery and food preparation, particularly for those who want to be a professional chef. Students will cover a course that is largely practical and is supported by theory subjects relating to the world of cookery.

Approximately 70% of the classes will be spent in practical classes and kitchens covering subjects such as cookery techniques, classical and traditional cookery, as well as specialist cookery from the Mediterranean, the Orient, other interesting world foods, pastry and confectionery larder and cold buffet.

Students will support their learning with classes about nutrition and food science, business and enterprise of restaurants and other food operations, food knowledge and gastronomy and applied computing skills. During the course the students work both individually and in teams preparing food and cooking for both small and large numbers of customers and participating in events. The teaching and learning facilities at the Department of Tourism and Hospitality Studies in CIT are recognised as being to the best European standard.

The course is supported by lectures from well known and specialist chefs and artisan food producers, as well as large food companies. Students will have the opportunities to visit both restaurants and food providers during the course.

Students will graduate as professional chefs ready to embark on exciting opportunities to develop their skills further whether at home or abroad. The opportunities for skilled chefs are extensive, whether it is working in a traditional role as a chef in a deluxe hotel, a stylish restaurant or bistro, or in popular pub food dining. Previous students hold exciting positions as Head Chefs and executive chefs in a wide variety of hotels and restaurants and other large scale food operations both at home in Ireland and throughout the world.

First Year Modules http://modules.cit.ie

SEMESTER 1
- Creativity Innovation and Teamwork
- Culinary Operations
- Culinary Skills
- Food Safety and Culinary Science
- Pastry and Larder Principles
- Introduction to IT

SEMESTER 2
- Culinary Operations 2
- Culinary Skills 2
- Nutrition
- Pastry and Larder Techniques
- Food Service Operations
- *Electives (Choose 1)*
- *Communications*
- *Free Choice Module*

There are other opportunities in food production such as Artisan food production, food product development, work place dining, health care, and food styling and critique. Many successful chefs open their own businesses be that an up market restaurant or trendy bistro, a modern coffee shop or welcoming café or catering for parties and events.

Graduates typically take time to travel overseas to gain further experience and enhance their skills.

Further Studies
For details, see www.cit.ie

Suitable qualified graduates are eligible to apply for entry to
- → Bachelor of Business in Culinary Arts
  or
- → Bachelor of Arts in Culinary Arts [part-time option]

and thereafter to
- → Bachelor of Business (Honours) in Hospitality Management.

Hospitality Studies

Level 6 CAO Code	Admission Requirements	Enquiries
CR 657	Grade D3 at ordinary level in five subjects including English or Irish. Mathematics must be passed at grade D3 ordinary or Grade B2 at Foundation Level or better. **FETAC awards accepted:** Any full FETAC Level 5 award is acceptable.	Breda Hickey Department of Tourism & Hospitality Studies T: 021 432 6137 E: breda.hickey@cit.ie

AWARD

Higher Certificate in Arts in Hospitality Studies

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Progress to Degree and to Honours Degree

CR 657 CAO Points

New CAO Course Entry 2010

Full-time course duration

2 Years (4 Semesters)

Special Category Applications

Mature students (23yrs on the 1st January on year of entry to the Course) and holders of the Leaving Certificate Applied with one year's relevant industrial experience may apply as Special Category Applicants through the CAO. They may be required to undertake an Institute interview.

Helpful Leaving Certificate subjects

English, Mathematics, Business Subject(s), Home Economics, and a European Language.

Work Placement

Formal work experience is provided for a minimum of twelve weeks over the summer period between Years 1 and 2. All students will have a formal, organised work placement in a good quality hotel or restaurant under the guidance of an experienced hospitality professional. The Placement will be matched to the student's area of interest and skill level. The work placement is a formal component of the programme and is awarded academic marks and credits.

About Hospitality Studies

This course replaces the former Advanced Certificate in Tourism Hospitality, and now provides access to 3rd level qualification for students in this exciting area of learning.

The course is designed to meet the skills requirements of students who wish to pursue careers within the hospitality sector. The graduates typically work in contact with the customer, in restaurants and bar operations or associated areas such as conference and banqueting. Equally they may work in areas associated with reception and rooms such as front office or reservations. The programme will focus on the operational skills required in hospitality sector accompanied by subjects related to the business of hospitality.

The opportunities for skilled hospitality professionals are extensive, whether it is working in the restaurants bars or reception in deluxe hotels, a stylish restaurant or bistro, or in a popular pub or cocktail bar.

Students typically take time to travel overseas to gain further experience and enhance their skills. Previous students work in many of the fine hotels and restaurants throughout Ireland and worldwide.

Many work in management positions in small stylish local hotels or larger corporate hotels. Some specialise in areas such as conference and banqueting. For the student prepared to work hard and who brings flair and passion to hospitality, the opportunities are endless.

Further studies

For details, see www.cit.ie

Suitable qualified graduates are eligible to apply for entry to

- → Bachelor of Business in Hospitality Management
  or
- → Bachelor of Business in Bar Management

and thereafter to

- → Bachelor of Business (Honours) in Hospitality Management.

First Year Modules

SEMESTER 1

Creativity Innovation and Teamwork
Food and Beverage Operations
Accommodation Operations
Culinary Skills
Introduction to IT
Electives (Choose 2)
Language: German or French
Business Maths for Hospitality

SEMESTER 2

Food and Beverage Operations
Culinary Skills 2
Hospitality Property Management
Personal Development and Career Planning
Electives (Choose 2)
Management for Administration
German or French

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

CIT's Restaurant Training Facilities

Bar Supervision

Level 6 CAO Code	Admission Requirements	Enquiries
CR 659	Grade D3 at ordinary level in five subjects including English or Irish. Mathematics must be passed at Grade D3 ordinary or Grade B2 at Foundation Level or better. **FETAC awards accepted:** Any full FETAC Level 5 award is acceptable.	Department Secretary Department of Tourism & Hospitality T: 021 432 6677 hospitality@cit.ie

AWARD
Higher Certificate in Bar Supervision

Progress to Degree and to Honours Degree

CR 659 CAO Points
New CAO Course Entry 2011

Full-time course duration
2 Years (4 Semesters)

Special Category Applications
Mature students (23yrs on the 1st January on year of entry to the Course) and holders of the Leaving Certificate Applied with one year's relevant industrial experience may apply as Special Category Applicants through the CAO. They may be required to undertake an Institute interview.

Helpful Leaving Certificate subjects
English, Mathematics, and Business Subject(s).

Work Placement
Formal work experience is provided for a minimum of twelve weeks over the summer period between years 1 and 2. All students will have a formal, monitored work placement in a good quality hotel bar, licensed premises or licensed restaurant under the guidance of an experienced hospitality professional. The Placement will be matched to the student's area of interest and skill level. The work placement is a formal component of the programme and is awarded academic marks and credits on completion.

About Bar Supervision
This course is designed to meet the skill and operation requirements of students who wish to pursue careers within the bar and licensed trade, as well as other areas such as the wine and spirit sector. The graduates typically work in contact with the customer, in bar operations whether in ultra-modern or traditional pubs, hotels and cocktail bars as well as in other businesses such as golf clubs and sports clubs.

The programme will focus on the operational skills required in licensed premises accompanied by subjects related to supervising and running the business and knowledge of wines spirits beers and other beverages.

The opportunities for skilled professionals are extensive, whether it is working in the bars and lounges in deluxe hotels, in popular pubs or cocktail bars, clubs or cruise liners. Graduates typically take time to travel overseas to gain further experience and enhance their skills. Typically students may work in roles such as;

- Bar Manager
- Bar Supervisor
- Food and Beverage Supervisor
- Off License Operations
- Wine Retail
- Beverage Purchasing
- Stock Control

Further Studies
For details, see www.cit.ie

Suitable qualified graduates are eligible to apply for entry to

→ Bachelor of Business in Hospitality Management
or
→ Bachelor of Business in Bar Management

and thereafter to
→ Bachelor of Business (Honours) in Hospitality Management.

First Year Modules

SEMESTER 1
Creativity, Innovation and Teamwork
Beverage Service Operations
Licensed Premises Regulation
Culinary Skills for Bar
Introduction to IT
Electives (Choose 1)
Wine Studies
Choice of languages

SEMESTER 2
Bar Operations
Beverage Studies
Food Service Operations
Communications
Environmental Health and Safety
Electives (Choose 1)
Tourism Studies
Managing People in Hospitality
Choice of Languages

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Social Care

Level 7 CAO Code	Admission Requirements	Enquiries
CR 031	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Roisín Lane Department of Social and General Studies T: 021 432 6863 E: roisin.lane@cit.ie

AWARD

Bachelor of Arts in Social Care

Please note: All applicants to the Bachelor of Arts in Social Care will be required to undergo Garda vetting. A number of places on the Bachelor Degree are usually available to mature students and other non-standard applicants. The Bachelor Degree is also available through ACCS on a modular study basis for persons working full-time in social care.

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Progress to Honours Degree

CR 031	CAO Points 2009
Round 1 Points	370
Final Points	350

Full-time course duration
3 Years (6 Semesters)

Helpful Leaving Certificate subjects
English.

Garda Vetting
Depending upon the outcome of the vetting process, the Institute reserves the following rights:
1. to not register a student
2. to remove an existing registered student
3. to delay the student's practice placement modules.

In all circumstances, it is the applicant student's responsibility to proactively disclose any convictions/cases pending. The Institute reserves the right to inform any placement agency of the existence of any convictions/cases pending.

Work Placement
Year 1: 6 week placement
Year 2: 12 week placement
Year 3: 60 days (spread over the two semesters)

Such placements enable the student to apply theory taught on the course to a professional placement and to appreciate the number of, and variety of, relevant work situations including:
- Residential care centres
- Community projects
- Youth centres
- Family casework
- Residential centres
- Adoption/fostering agencies
- Probation and welfare agencies
- Hostels for adolescence
- Travellers centres
- Special schools
- Centres for asylum seekers
- Centres for the elderly/aged.

About Social Care
Social Care is a profession where people work in partnership with those who experience marginalisation or discrimination, or who have special needs. Social care practitioners may work, for example, with children and adolescents in residential care; people with learning or physical disabilities; people who are homeless; people with alcohol/drug dependency; families in a community setting; or recent migrants to Ireland.

The course aims to strike a balance between theory and practice. Material from disciplines is organised and presented in ways which enable students to see its relevance to the objectives of the course, to the placement settings and their own supervised practice. The student will be given the opportunity of acquiring some practical skills needed in this type of work, such as household management, sport and leisure. Starting salary (general guideline only): €25,000 - €30,000.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to
→ Bachelor of Arts (Honours) in Social Care, 1 year full-time or by ACCS mode.

Postgraduate Programmes are available at CIT.

Graduate **Profile**

Christina Sieber
CHILD CARE LEADER

Christina was awarded a BA honours degree in Social Care. "I chose CIT specifically for the combination of lectures and practical work. Each year we had a placement, which allowed us to experience different areas in the social care field. My placements entailed work with an after care worker with the Health Board, as a classroom assistant in a special school, and in the Barrettstown Gang camp." Christina is now working in residential care and is also undertaking part-time lecturing in social care.

First Year Modules http://modules.cit.ie

SEMESTER 1
Creativity, Innovation & Teamwork
Lifespan Psychology
Home Management
Applied Social Studies 1
Sociology for Social Care
Personal & Professional Development 1

SEMESTER 2
Health, Recreation & Physical Activity
Professional Work Practice 1
Social Care Law 1
Communications, Research & Information Technology
Political Economy of Welfare
Electives (Choose 1)
Educational Disadvantage
Disability Studies
Free Choice Module

Recreation and Leisure Management

Level 7 CAO Code	Admission Requirements	Enquiries
CR 032	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Noel Collins Department of Social and General Studies T: 021 432 6307 E: noel.collins@cit.ie

AWARD

Bachelor of Business in Recreation and Leisure Management

Please note: All applicants to the Bachelor of Business in Recreation and Leisure Management will be required to undergo Garda vetting. A small number of places on the Bachelor Degree course are available for Non-Standard Applicants.

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Progress to Honours Degree

CR 032 **CAO Points 2009**
Round 1 Points 320
Final Points 320

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Business in Recreation and Leisure.

Helpful Leaving Certificate subjects
Business, English, Biology, and Accounting.

Garda Vetting
Depending upon the outcome of the vetting process, the Institute reserves the following rights:

1. to not register a student
2. to remove an existing registered student
3. to delay the student's practice placement modules.

In all circumstances, it is the applicant student's responsibility to proactively disclose any convictions/cases pending. The Institute reserves the right to inform any placement agency of the existence of any convictions/cases pending.

Sport aptitude
Active participation in sport is an advantage. However, applicants do not need to have exceptional ability or achievements in sport.

Work Placement
An integral and mandatory part of the course is a five-week block of work placement in an area of recreation and leisure during Semester 3.

About Recreation and Leisure Management
The course consists of lectures, tutorials, practicals, site visits and work placement.

The leisure industry is one of the fastest growing sectors of the economy. This has created a demand for personnel with specialist knowledge and skills in recreation and leisure. CIT's Recreation and Leisure course combines technical skills and competencies with a strong business base. The Bachelor Degree offers students the opportunity of acquiring appropriate practical and managerial expertise, which will enable them to be effective managers in the recreation and leisure industry.

The broad multi-skills approach adopted in the course offers access to a wide range of employment opportunities in the leisure industry: leisure centre management, personal training, sports coaching, swim teaching, lifeguarding, group exercise leadership, sports development, health promotion, and community recreation.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates may progress to
→ Bachelor of Business (Honours)

This award will greatly enhance the career prospects at management level, and also enable students to progress to the Higher Diploma in Education.

Graduate **Profile**

Mai O'Leary
SPORTS OFFICER

"My time at CIT was a valuable and enjoyable experience. It has allowed me to try many interesting jobs as a direct result of the electives in Gym Instruction, Exercise to Music, Lifesaving, Sports Coaching and Massage Therapy. As well as providing me with a solid knowledge base, my degree has allowed me to study for my Masters at the University of Bristol, where I specialised in Nutrition and Physical Activity Behaviour. The quality of lectures, both practical and theoretical, and the support from staff at CIT enhanced my choices and job potential within the Sport and Leisure Industry. Studying at CIT… I wouldn't have it any other way!"

First Year Modules http://modules.cit.ie

SEMESTER 1
Creativity, Innovation & Teamwork
Anatomy & Physiology
Financial Accounting 1
Sports Coaching 1
Electives (Choose 2)
Resistance & Circuit Training
Sports Psychology
Aquatics 1

SEMESTER 2
Business Sport and Leisure Administration 1
Exercise Health and Lifestyle
Sport and Leisure in Society 1
Economics for Recreation and Leisure
Electives (Choose 2)
Exercise to Music
Sports Coaching 2
Aquatics 2
Free Choice Module

Early Years Education

Level 7 CAO Code	Admission Requirements	Enquiries
CR 620	Leaving Certificate Grade D3 at Ordinary or Higher Level in 5 subjects including either English or Irish. There is no specific Maths requirement. Grade B2 or higher in Foundation Level Mathematics is recognised as one of the subjects (see the Yellow Pages at the back of Handbook).	Nuala Rearden Department of Social and General Studies T: 021 432 6651 E: nuala.rearden@cit.ie Department Secretary T: 021 432 6547

AWARD

Bachelor of Arts in Early Years Education

A number of places on the Bachelor Degree are available to mature students and other non-standard applicants. The Bachelor Degree is also available through ACCS on a modular study basis for persons working full time in Early Years Education. Prior to entry on this course, it is advisable to obtain some practical work experience in an early years setting. **Please note:** All applicants to the Bachelor of Arts in Early Years Education will be required to undergo Garda vetting.

hd
Progress to Honours Degree

CR 620 **CAO Points 2009**
Round 1 Points 370
Final Points 350

Full-time course duration
3 Years (6 Semesters)

Helpful Leaving Certificate subjects
English, and Business.

Garda vetting
Depending upon the outcome of the vetting process, the Institute reserves the following rights:
1. to not register a student
2. to remove an existing registered student
3. to delay the student's practice placement modules.

In all circumstances, it is the applicant student's responsibility to proactively disclose any convictions/cases pending. The Institute reserves the right to inform any placement agency of the existence of any convictions/cases pending.

Work Placement
Central to the degree at every stage is the Professional Work Practice (PWP) placement. This involves supervised hands-on experience in centres approved by the Institute, for example, centres such as Pre-Schools, Montessori Schools, Naíonraí and Centres for Children with Special Educational Needs. At present, the following are the work placement arrangements:
- → Year 1 - 6 weeks
- → Year 2 - 10 weeks
- → Year 3 - 10 weeks

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

The topics offer a student the opportunity to study Early Childhood from differing perspectives – educational, psychological, social, and cultural. The course also includes tuition in Art, Music and Drama, which will provide an extensive portfolio of child-centred activities. Attention is also paid to practical skills needed in this type of work such as child health, exercise and nutrition, and the physical care of children.

Employment opportunities include:
- early years childcare,
- early years education,
- children with specific learning needs,
- children's residential care centres,
- family and community support centres,
- after school services.

Starting salary (general guideline only): €20,000.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to the one year add-on
- → Bachelor of Arts (Honours) in Early Years Education.

Graduate **Profile**

Abina McCarthy

"Having completed the 2 year CACHE Level 3 and FETAC Level 5 Diploma in Early Years Care and Education course, I progressed to the Bachelor Degree course at CIT and graduated in 2008. I found subjects such as Psychology Law and Social Studies very applicable to my work. Creative Arts taught me so many skills for teaching and has really helped me to plan and create fun games and learning experiences for young children. At present, I am going to work in Koln (Germany) as part of an international Montessori group who looked for graduates of this course to teach English at the bilingual crèche."

First Year Modules http://modules.cit.ie

SEMESTER 1
Creativity, Innovation & Teamwork
Pedagogy 1
Sociology for Early Childhood Care & Education
Introduction to Creative Arts 1
Professional & Personal Development 1

SEMESTER 2
Developmental Psychology
Exercise and Play
Professional Work Practice 1
Early Childhood Law
Child Health Development
Electives (Choose 1)
Music, Art & Drama
An Ghaelige
Free Choice Module

Community Development

Level 7 Entry

Entry to the course is by direct application to the Admissions Office, CIT. Please note that application is NOT through the Central Applications Office (CAO).

Admission Requirements

A minimum of two years community involvement. Places will be awarded on the basis of interview, which will be held in May 2011.

Enquiries

Patricia Anderson
Cork Institute of Technology
T: 021 432 6703 E: paddy.anderson@cit.ie
W: http://www-deis.cit.ie

AWARD

Bachelor of Arts in Community Development

Application forms are available from the Admissions Office, CIT and the closing date for receipt of completed applications is 13 May 2011.

Progress to Honours Degree

Higher Certificate Option

Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Arts in Community Development.

Full-time course duration

3 Years (6 Semesters)

Garda vetting

Depending upon the outcome of the vetting process, the Institute reserves the following rights:

1. to not register a student
2. to remove an existing registered student
3. to delay the student's practice placement modules.

In all circumstances, it is the applicant student's responsibility to proactively disclose any convictions/cases pending. The Institute reserves the right to inform any placement agency of the existence of any convictions/cases pending.

How will the course be assessed?

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

Work Placement

At present, the placement is composed of supervised community work for a minimum period of twenty weeks. Generally, participants in the course will be active in community development work and this work will often meet the requirements of the placement.

About Community Development

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

Graduates of the degree programmes can expect to take supervisory/management/ leadership roles in community projects and within statutory agencies. It is envisaged that Higher Certificate holders will be qualified to seek employment in any of the following areas:

- Development workers within a Community Education Project.
- Development worker within a Community Resource Centre.
- Worker within a Community Development Project (CDP).
- Summer Project Organiser
- Co-facilitator in group work
- Skilled worker in Adult Literacy, community-based health and wellbeing programmes

Further Studies

Suitably qualified graduates may be considered to proceed to Year 4 of

- Bachelor of Arts (Honours) in Community Development.

First Year Modules

SEMESTER 1

Creativity, Innovation and Teamwork
Education
Portfolio Methods for RPL
ICT for Research and Reporting
Community Workplace
Sociology and Community

SEMESTER 2

Community Practice
Community Development
Group Work and Community
Social Analysis
Presentation and Project
Elective
Free Choice Module

Where applicants for the honours degree do not have a qualification at Diploma or Bachelor degree level in Community Development at the specified minimum level, they may be admitted on the basis of a learning portfolio that verifiably demonstrates learning performance equal to that specified by the learning outcomes of the BA Degree programme at CIT.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Business (for mature students)
Educational Opportunities Department

Admission Requirements

Application for courses run by the Educational Opportunities Department (EOD) is not through the Central Application Office (CAO). A special application form is required and is available from the EOD. Closing date is 30th May 2011.

Leaving Certificate is desirable but not essential. Relevant work experience, skills gained through experiential learning and other qualifications will be considered when assessing applications.

Enquiries

Educational Opportunities Department
E: eod@cit.ie
T: 021 433 5150

AWARD
Higher Certificate in Business

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Progress to Degree and to Honours Degree

Full-time course duration
2 Years (4 Semesters)

About Business
CIT welcomes applications from mature students to all of our courses (see the section in this Handbook entitled "Lifelong Learning & Further Study" for details). This course aims to equip mature students (i.e. 23 years of age by 1st January of the year of entry), with the necessary skills and knowledge to take advantage of new employment opportunities in areas such as accounting, marketing, computing, banking, insurance, etc.

Cost
No tuition fees are payable except by certain categories of student. Student services, registration and examination fees may apply, depending on circumstances of the student.

Note: The Third-Level Training Grant administered by local VEC offices are available for eligible students. The course is also recognised under the Back to Education Allowance Scheme, which in certain circumstances permits those participants in receipt of social welfare payments to retain these payments while completing the course.

Duration & Timetable
This is a full time course over two academic years. Lectures are time tabled from Monday to Friday between 9.00am – 2.00pm in so far as possible to accommodate the needs of mature students.

Mature Student Support Network
The Network provides support for mature students with organised workshops: e.g. Study Skills, Stress Management, the Third Level Experience etc. The Network provides students with peer support and assists students in managing college life. The Network also provides opportunities for social interaction with other mature students.

Contact
Deirdre Creedon
Access Office
Cork Institute of Technology
T: 021 433 5150
E: deirdre.creedon@cit.ie

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for the Bachelor Degrees in Business and thereafter, for the Bachelor of Business (Honours) degrees.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Behavioural Science 1
Business Mathematics and Statistics I
Introduction to Microeconomics
Financial Accounting 1
Electives (Choose 1)
Public and Business Institutions
French 1
German 1.1
Italian 1.1
Spanish 1.1

SEMESTER 2
Behavioural Science 2
Business Mathematics and Statistics II
The Macroeconomy
Financial Accounting 2
Introduction to Information Technology
Electives (Choose 1)
Communication
French 2
German 2 with Communication
Italian 1.2
Spanish 1.2

Graduate **Profile**

Olivia Coleman

"When I left school, I was fortunate enough to receive a job offer and was also offered a place in college. The lure of money was too strong and I embarked on a career for ten years in insurance. I enrolled in the course because I believed that it would lead to greater things. The lecturers were very approachable, but most of all the camaraderie I experienced among my fellow classmates, was wonderful. Everyone supported each other. I would recommend the course to anyone thinking of returning to education. I am currently studying for a Bachelor of Business in Management."

Good Manufacturing Practice & Technology Educational Opportunities Department

Admission Requirements

Application for courses run by the Educational Opportunities Department (EOD) is not through the Central Application Office (CAO). A special application form, available from EOD, is required, and the closing date is December 2010.

Individuals under the age of 23: Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.

Enquiries

Louise Byrne
Educational Opportunities Department
T: 021 433 5150
E: louise.byrne@cit.ie

Aaward

Higher Certificate in Science in Good Manufacturing Practice & Technology

Mature student applications are welcome (over 23 years of age by 1st January of year of entry). Leaving Certificate is desirable but not essential. Relevant work experience, skills gained through experiential learning and other qualifications, will be considered when assessing applications.

Progress to Degree

About Good Manufacturing Practice & Technology

This is a 17-month accelerated technician course, which emphasises Good Manufacturing Practice (GMP) & Technology targeting the Pharmaceutical, Biopharmaceutical and Medical Devices manufacturing sectors. The principal aim of this course is to provide a nationally accredited educational programme in Good Manufacturing Practice and Technology for people keen to work in production, quality assurance or validation roles within leading Pharmaceutical/Biopharmaceutical and Medical Devices manufacturing companies.

Work Placement or Project

The placement programme will familiarise the student with work practices and procedures and provide him/her with the opportunity to observe the practical application of theoretical knowledge gained on his/her programme. The placement is supported by a member of academic staff in CIT together with a workplace mentor. The aim of the industrial placement is to introduce the learner to structured employment in a relevant work sector and to develop in the learner an understanding of the organisation, its procedures and technology.

The project affords the student an opportunity to apply his/her learning from the course in a practical situation.

Cost

No tuition fees are payable except by certain categories of student. Student services, registration and examination fees may apply, depending on circumstances of the student.

Note: The Third-Level Training Grant administered by local VEC offices is available for eligible students. The course is also recognised under the Back to Education Allowance Scheme which in certain circumstances permits those participants in receipt of social welfare payments to retain these payments while completing the course.

Further Studies

For details, see www.cit.ie and Continuing Education Handbook 2010/2011.

Graduates holding the Higher Certificate in Science in Good Manufacturing Practice & Technology, or equivalent, are eligible to apply to the part-time add-on degree in

→ Bachelor of Science in Good Manufacturing Practice & Technology.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

Dec 2010 - Jan 2011
Selection and orientation of new students

SEMESTER 1 1 Feb 2011 - Jun 2011

- Creativity, Innovation and Teamwork
- cGMP1 and Quality Assurance
- Information Technology
- Fundamentals of Mammalian Cell Biology
- Mathematics for Manufacturing Operations
- Fundamentals of Chemistry
- Occupational Health, Safety and Environmental Management

SEMESTER 2 2 Jun 2011 - Jan 2012

- Industrial Placement or Project
- Introduction to Microbiology
- cGMP 2 and Quality Control
- Measurement Science

SEMESTER 3 3 Jan 2012 - Jun 2012

- Lean Manufacturing
- Organic and Inorganic Chemistry
- Calibration Science
- Contamination Control
- Cleanroom Management
- Manufacturing and Processing Technology
- *Electives (Choose1)*
- *Introduction to Biotechnology*
- *Free Choice Module*

Note: The running of the elective module will be dependent on a sufficient number of students enrolling on the course. The module may be withdrawn if this requirement is not fulfilled.

Business & Humanities Master Chart

Course Code	Course Name	Page No.	Initial Award	Duration in years	Higher Certificate Step-off Available	No. of 1st Year Places	Round 1 Points 2009	Final Points 2009	MINIMUM ENTRY REQUIREMENTS: No. of Subjects D3 (O/H)	No. of C3 (H) Grades	Maths Grade	English or Irish Grade	Early Assessment Procedures	INITIAL AWARD & PROGRESSION OPPORTUNITIES AT CIT: Higher Certificate	Bachelor Degree	Honours Bachelor Degree	Post Grad
CR021	Business Studies	24	Bachelor Degrees	3	✔ (Ref.1)	200	300	300	5	0	D3 (O/H)	D3 (O/H)			✔ (Ref.2/3/4)	✔ (Ref.5/6/7)	✔ (Ref.8)
CR400	Accounting	26	Honours Bachelor Degree	4		40*	360	360	6	3	D3 (H) or B3 (O)	D3 (O/H)				✔	✔ (Ref.8)
CR023	Accounting	27	Bachelor Degree	3	✔ (Ref.1)	40*	330	330	5	3	D3 (H) or B3 (O)	D3 (O/H)			✔	✔ (Ref.5/6)	✔ (Ref.8)
CR420	Marketing	23	Honours Bachelor Degree	4		40	280	250	6	2	D3 (O/H)	D3 (O/H)				✔	✔ (Ref.8)
CR150	Business Information Systems	29	Honours Bachelor Degree	4		60	310	310	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR022	Business Administration	30	Bachelor Degrees	3	✔ (Ref.1)	60	265	265	5	0	D3 (O/H)	D3 (O/H)			✔ (Ref.9/2/4)	✔ (Ref.5/7)	✔ (Ref.8)
CR010	Agriculture	31	Bachelor Degree	3	✔ (Ref.1)	40	260	240	5	0	D3 (O/H)	D3 (O/H)			✔		
CR011	Horticulture	32	Bachelor Degree	3		30	230	AQA	5	0	D3 (O/H)	D3 (O/H)			✔		
CR660	Tourism	33	Honours Bachelor Degree	4		30	255	255	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR041	Tourism	34	Bachelor Degree	3	✔ (Ref.1)	30	240	240	5	0	D3 (O/H)	D3 (O/H)			✔	✔	✔
CR042	Hospitality Management	35	Bachelor Degree	3	✔ (Ref.1)	32	230	230	5	0	D3 (O/H)	D3 (O/H)			✔	✔	
CR640	Culinary Arts	36	Bachelor Degree	3		32	300	300	5	0	D3 (O/H)	D3 (O/H)			✔	✔ (Ref.10)	
CR650	Bar Management	37	Bachelor Degree	3		20	250	250	5	0	D3 (O/H)	D3 (O/H)			✔	✔ (Ref.10)	
CR655	Culinary Studies	38	Higher Certificate	2		32	New Course	New Course	5	0	D3 (O) or B2 (F)	D3 (O/H)		✔	✔ (Ref.13)	✔ (Ref.10)	
CR657	Hospitality Studies	39	Higher Certificate	2		25	New Course	New Course	5	0	D3 (O) or B2 (F)	D3 (O/H)		✔	✔ (Ref.14)	✔ (Ref.10)	
CR659	Bar Supervision	40	Higher Certificate	2		25	New Course	New Course	5	0	D3 (O) or B2 (F)	D3 (O/H)		✔	✔ (Ref.15)	✔ (Ref.10)	
	Community Development	44	Bachelor Degree	3	✔ (Ref.1)	25			See Community Development						✔	✔	
CR031	Social Care	41	Bachelor Degree	3		80	370	350	5	0	D3 (O/H)	D3 (O/H)	✔ (Ref.11)		✔	✔	✔
CR032	Recreation & Leisure Management	42	Bachelor Degree	3	✔ (Ref.1)	80	320	320	5	0	D3 (O/H)	D3 (O/H)	✔ (Ref.11)		✔	✔ (Ref.5)	✔
CR620	Early Years Education	43	Bachelor Degree	3		40	370	350	5	0	(Ref.12)	D3 (O/H)	✔ (Ref.11)		✔	✔	
CR950	Good Manufacturing Practice & Technology	46	Higher Certificate	2		25	N/A		N/A	See Educational Opportunities Section of this Handbook				✔	✔		

Ref.1 Students who successfully complete Year 2 of the Bachelor Degree Programme and do not wish to progress to Year 3, will receive a Higher Certificate Qualification.
Ref.2 Bachelor of Business in Marketing
Ref.3 Bachelor of Business in Accounting
Ref.4 Bachelor of Business in Business and Management
Ref.5 Bachelor of Business (Honours)
Ref.6 Bachelor of Business (Honours) in Accounting
Ref.7 Bachelor of Business (Honours) in Marketing
Ref.8 Master of Business
Ref.9 Bachelor of Business in Business Administration
Ref.10 Bachelor of Business (Honours) in Hospitality Management
Ref.11 Applicants will be required to undergo Garda vetting.
Ref.12 No requirement for Mathematics. A Grade B2 or higher in Foundation Level Mathematics is recognised as a subject for CR620 and is awarded points as follows: Grade/Points A1/20; A2/15; B1/10; B2/5.
Ref.13 Bachelor of Business in Culinary Arts OR Bachelor of Arts in Culinary Arts
Ref.14 Bachelor of Business in Hospitality Management OR Bachelor of Business in Bar Management
Ref.15 Bachelor of Business in Bar Management
AQA All Qualified Applicants

* There will be 40 first year places available between CR400 Accounting (Level 8) and CR023 Accounting (Level 7).

NOTE: Round 1 Points 2010 can be found inside the back cover.
Number of First Year Places may change.

faculty of **engineering** at a glance

CAO Courses

Level 8
CR 105 BEng (Honours) in Chemical and Biopharmaceutical Engineering
CR 108 BEng (Honours) in Mechanical Engineering
CR 109 BEng (Honours) in Structural Engineering
CR 500 Engineering (Honours Common Entry)
CR 510 BEng (Honours) in Sustainable Energy
CR 520 BEng (Honours) in Biomedical Engineering
CR 560 BSc (Honours) in Architectural Technology
CR 565 BSc (Honours) in Interior Architecture
CR 570 BSc (Honours) in Quantity Surveying
CR 572 BSc (Honours) in Construction Management
CR 580 BEng (Honours) in Electrical Power Systems
CR 590 BEng (Honours) in Electronic Systems Engineering
CK 606 BSc (Honours) in Architecture

Level 7
CR 046 BSc in Transport Management & Technology
CR 051 BEng in Civil Engineering
CR 052 Construction
Degree Award options:
BSc in Construction Management or
BSc in Quantity Surveying
CR 053 BSc in Interior Architecture
CR 061 BEng in Electronic Engineering
CR 062 BEng in Electrical Engineering
CR 071 Mechanical Engineering
Degree Award options:
BEng in Mechanical Engineering or
BEng in Manufacturing Engineering
CR 072 BEng in Building Services Engineering
CR 075 BEng in Biomedical Engineering
CR 090 BSc in Architectural Technology

Follow on Honours Degrees

Level 8
BEng (Honours) in Building Energy Systems
BSc (Honours) in Process Plant Technology
BSc (Honours) in Advanced Manufacturing Technology
BSc (Honours) in Transport Management

Postgraduate Programmes

Master of Architecture
MEng (Taught)
MEng (By Research)
PhD

Engineering (Common Entry) > Honours

Level 8 CAO Code	Admission Requirements	Enquiries
CR 500	Leaving Certificate in six subjects (including Mathematics, and English or Irish), with at least two C3s at Higher Level. A minimum A2 grade in Ordinary Level Mathematics or a D3 grade in Higher Level Mathematics is required.	Des Walsh Department of Civil, Structural & Environmental Engineering T: 021 432 6765/ 6203 E: des.walsh@cit.ie

The Common Entry Engineering programme CR500 requires D3 or better in Leaving Certificate Higher Level Mathematics
OR
A2 or better in Leaving Certificate Ordinary Level Mathematics.
OR
A specified grade in the CIT Special Engineering Entrance Examination in Mathematics.
Please see 'The Basics' section in this Handbook.

CIT Maths Exam Option

CR 500 **CAO Points 2009**
Round 1 Points 310
Final Points 310

Helpful Leaving Certificate subjects
Mathematics, Engineering, Chemistry, Physics, and English.

About the Course
The Common Engineering Honours Entry Scheme is a one year programme for students interested in engineering as a career, but who may be unsure of which discipline to follow.

The Scheme allows the student to sample the various engineering disciplines on offer at CIT, followed by three years of specialisation.

On successful completion of Year 1, students can enter the second year programme of their choice from any of the following Honours Engineering Degrees:

- CR105 BEng (Hons) in Chemical and Biopharmaceutical Engineering
- CR108 BEng (Hons) in Mechanical Engineering
- CR109 BEng (Hons) in Structural Engineering
- CR520 BEng (Hons) in Biomedical Engineering

Applicants are advised to visit each of the course sites for detailed descriptions at www.cit.ie

Lectures are supplemented by tutorials, laboratory and fieldwork. There is continuous assessment of reports and projects in addition to mid and end of year module examinations.

Graduate engineers from the Honours Engineering Degree Programmes can choose from a range of excellent career opportunities working in the private or public sector with opportunities available at both National and International Level. Many graduates ultimately progress to senior management positions in their organisations. These Honours Engineering Degree Programmes also provide a basis for suitably qualified graduates to pursue more advanced studies.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Engineering Physics 1
Engineering Chemistry
Engineering Mathematics 101
CAD & Design 1
Introductory Mechanics

SEMESTER 2
Engineering Mathematics 102
Engineering Computing 1
Material Science & Engineering
Electives (Choose 3)
Applied Anatomy and Physiology
Biomedical Devices
CAD & Design 2
Engineering Mechanics 2
Introductory ThermoFluids
Land Surveying 1
Process Engineering Labs 1
Introduction to Industrial Biotechnology

Students with lower than a Grade C in Leaving Certificate Higher Level Mathematics are required to take a Mathematics bridging course between Semester 1 and Semester 2 (in January).

Structural Engineering (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 109	Leaving Certificate in six subjects, including either English or Irish, and including at least two C3s at Higher Level, one of which must be Mathematics. ▲	Brian O'Rourke Department of Civil, Structural & Environmental Engineering T: 021 432 6485 E: brian.orourke@cit.ie

AWARD

Bachelor of Engineering (Honours) in Structural Engineering

▲ The requirement for HC3 Mathematics may also be satisfied by HC3 in Applied Mathematics plus HD2 in Mathematics OR by a specified grade in the CIT Special Engineering Entrance Examination in Mathematics.

CIT Maths Exam Option

CR 109 **CAO Points 2009**

Round 1 Points	420
Final Points	410

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Mathematics, English, and Physics.

Work Placement
A Work Placement module (minimum of 8 weeks) is available as an elective module in Year 4 of the programme. Students may use appropriate work experience in the summer period between the third and fourth years to complete the module with assessment and credit allocated in Year 4. Third year students are offered guidance, advice and assistance with the necessary arrangements and approval for their work experience proposal in the second semester of Year 3.

About Structural Engineering
Structural Engineering is the science and art of designing civil engineering facilities so that they can safely resist the forces to which they may be subjected. All structures from bridges to buildings, harbours to airports, must be able to meet these requirements. Structural Engineers aim to design these structures with safety, economy and elegance.

The course is taught primarily through lectures, practicals and tutorials. A significant emphasis is placed on project and experimental work with site visits and field trips making up an integral part of the coursework. There is a continuing regional, national and international requirement for structural engineers with a knowledge of construction.

Graduates will be well equipped to meet these demands and will find employment opportunities in Consulting Engineering Offices and with Building & Civil Engineering contractors. They may also be employed by state and semistate bodies, including local authorities and utilities boards. Starting salary (general guideline only): €28,000 - €38,000.

Accreditation
This course is fully accredited by Engineers Ireland such that the student may proceed to Chartered Engineer status. Engineers Ireland represents all engineering disciplines in Ireland and is a member of Féderation Européene d'Associations Nationales d'Ingenieurs (FEANI) through which Irish engineers are recognised in Europe. Engineers Ireland is a signatory to the Washington Accord through which Irish engineers are recognised in USA, Canada, Australia, New Zealand, Hong Kong, South Africa and UK.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates may pursue a Master of Engineering Degree and a PhD by research at the Institute.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Maurice Mansfield
CONSULTING ENGINEER

"A career in Structural Engineering presents both creative and technical challenges, giving rise to innovation, responsibility and the excitement of problem solving in a multidiscipline environment. After completing the Honours Degree at CIT, I was well equipped for the challenges of academia at a world class institution and subsequently those facing a consulting engineer." Maurice now works as a consultant and has worked on the assessment, rehabilitation and conservation of two historic bridges: Mizen Head footbridge and John's River bridge in Kilkenny, both built circa 1905. He was the bridge designer on the Newry bypass project.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Engineering Mathematics 101
- Engineering Physics 1
- Engineering Mechanics 1
- Engineering Presentation
- Engineering Chemistry

SEMESTER 2
- Engineering Mathematics 102
- Engineering Mechanics 2
- Properties of Materials
- Land Surveying 1
- Engineering Computing 1
- *Electives (Choose 1)*
- *History of Structural Engineering*
- *Communications with German 1*
- *Free Choice Module*

Civil Engineering

Level 7 CAO Code	Admission Requirements	Enquiries
CR 051	Leaving Certificate minimum Grade D3 at Ordinary or Higher level in 5 subjects, including Mathematics and either English or Irish.	David Cadogan Department of Civil, Structural & Environmental Engineering T: 021 432 6311 E: david.cadogan@cit.ie

AWARD

Bachelor of Engineering in Civil Engineering

hd
Progress to Honours Degree

CR 051

	CAO Points 2009
Round 1 Points	240
Final Points	240

Full-time course duration

3 Years (6 Semesters)

Higher Certificate Option

Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Engineering in Civil Engineering.

Helpful Leaving Certificate subjects

Mathematics, English, Physics, Design and Communication Graphics, and Construction Studies.

About Civil Engineering

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

Practical sessions are carried out to provide as much "hands on" experience as possible. There is continuous assessment of reports, drawings and projects in addition to mid and end of module examinations.

The Department of Civil, Structural & Environmental Engineering has active links with colleges in France, Germany, Finland and the Czech Republic and arranges student study exchanges with these colleges. Graduates are likely to work in conjunction with architects, quantity surveyors, builders and also with personnel from other engineering disciplines. The course also provides a basis for suitably qualified graduates who are interested in pursuing more advanced studies. Starting salary (general guideline only): €21,000 - €28,000.

Further Studies

For details, see www.cit.ie

Suitably qualified graduates may be considered for entry to Year 3 of

→ Bachelor of Engineering (Honours) in Structural Engineering, subject to availability of places.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Tony Creane
CIVIL ENGINEER

"The Civil Engineering course in CIT provided me with the practical, theoretical and ethical skills that I required in my chosen area of work. Thanks to the quality of the lecturing staff and the first-rate facilities available in the Department, I am now in a position today to successfully move up the career ladder."

Tony graduated with a distinction and has gained a wide range of experience in the sphere of engineering, from commercial to industrial to residential, from private sector work to government contract work.

First Year Modules

SEMESTER 1

- Creativity, Innovation & Teamwork
- Technological Mathematics 1
- Engineering Graphics
- Engineering Science
- Applied Mechanics 1
- Construction 1

SEMESTER 2

- Technological Mathematics 2
- Applied Mechanics 2
- Engineering CAD
- Linear Surveying & Levelling
- Civil Engineering Construction 1
- *Electives (Choose 1)*
- *IT in Communications*
- *History of Civil Engineering*
- *Free Choice Module*

Construction Management (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 572	Leaving Certificate in six subjects, including Mathematics and either English or Irish, and including at least two C3s at Higher Level.	Joseph Kehoe Department of Construction T: 021 432 6203 E: joe.kehoe@cit.ie

AWARD

Bachelor of Science (Honours) in Construction Management

CR 572	CAO Points 2009
Round 1 Points	260
Final Points	260

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Construction Studies, and Design and Communication Graphics.

About Construction Management

Construction Management deals with the organisation and management of a construction project. The Construction Manager monitors the progress and quality of the work on site, supervising and co-ordinating subcontractors and specialist suppliers. The Construction Manager has overall control of the progression of the project and is responsible for ensuring that the required personnel, materials and equipment are available in the correct sequence and at the appropriate time. She/he must also ensure that all health and safety regulations are met.

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

Potential employment opportunities are in the areas of construction management; site management; project planning and management; facilities management and with developers, designers and contracting organisations generally. Starting salary (general guideline only): €21,000 - €28,000.

Accreditation

This course is fully accredited by the Chartered Institute of Building.

Further Studies

Graduates may undertake relevant Master Degrees at other institutes and universities.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

Creativity, Innovation & Teamwork
Construction Graphics
Building & Environment
Construction Technology
Mathematics for Construction/Architecture
Construction Industry & Construction Management Procedures

SEMESTER 2

Construction Materials & Structures
Building & Environment
Construction Management Measurement & Procedures
Organisation & Management
Construction Technology
Electives (Choose 1)
Construction Graphics & Communications
Free Choice Module

Quantity Surveying (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 570	Leaving Certificate in six subjects, including Mathematics and either English or Irish, and including at least two C3s at Higher Level.	James Kilduff Department of Construction T: 021 432 6108 E: james.kilduff@cit.ie

AWARD

Bachelor of Science (Honours) in Quantity Surveying

CR 570 **CAO Points 2009**

Round 1 Points	245
Final Points	245

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Design and Communication Graphics, and Construction Studies.

About Quantity Surveying

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

The course is taught primarily through lectures, practicals and tutorials. A significant emphasis is placed on project and experimental work with site visits and field trips making up an integral part of the coursework. The student is required to submit a project evaluation and procurement report, and a dissertation. Graduates, upon gaining employment, may commence their structured training leading to designation as a Chartered Surveyor.

It is a challenging and rewarding career and affords the Quantity Surveyor an opportunity to travel to many parts of the world in his or her role as construction cost advisor/manager. The Professional Quantity Surveyor is normally office based within the consultancy firm and their working hours will invariably involve visiting sites to attend site meetings and to monitor the progress and financial aspects of their construction projects. Starting salary (general guideline only): €28,000 - €33,000.

Accreditation

The course is fully accredited by the Chartered Institute of Building.

Further Studies

Graduates may undertake relevant Master Degrees at other institutes and universities.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

- Creativity, Innovation & Teamwork
- Mathematics for Construction / Architecture
- Construction Technology
- Building and Environmental Science
- Construction Graphics
- Construction Industry and Quantity Surveying Procedures

SEMESTER 2

- Construction Technology
- Measurement & Procedures
- Building and Environmental Science
- Construction Materials & Structures
- Quantity Surveying Organisation & Management
- *Electives (Choose 1)*
- Construction Graphics & Communications
- Free Choice Module

Construction (Common Entry)

Level 7 CAO Code	Admission Requirements	Enquiries
CR 052	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	*Construction Management:* Kevin Coleman E: kevin.coleman@cit.ie *Quantity Surveying:* Denis Coveney E: denis.coveney@cit.ie T: 021 432 6203

AWARDS

Bachelor of Science in Construction Management
Bachelor of Science in Quantity Surveying

For the first two years of the programme students follow a common curriculum. Students who successfully complete Year 1 and Year 2 may choose either the Bachelor of Science in Construction Management or the Bachelor of Science in Quantity Surveying in Year 3.

hd
Progress to Honours Degree

CR 052 **CAO Points 2009**
Round 1 Points 200
Final Points 200

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Construction.

Helpful Leaving Certificate subjects
Construction Studies, and Design and Communication Graphics.

About Construction Management / Quantity Surveying
The Construction Manager monitors the progress and quality of the work on site, supervising and coordinating subcontractors and specialist suppliers. The objective of Quantity Surveying is to control cost, limit risk and add value to a project.

In addition to lectures, time is also given to practical work in surveying, drawing, project work and Computer Aided Design (CAD). The principal areas of employment are as surveyors or as construction managers with contracting organisations, government departments, semi-state bodies, and private practice companies. Starting salary (general guideline only): €21,000 - €28,000.

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

Further Studies
Suitably qualified graduates may apply for admission to Year 4 of
- → Bachelor of Engineering (Honours) in Construction Management or
- → Bachelor of Engineering (Honours) in Quantity Surveying

Graduate **Profile**

Gerry O'Rourke
PROJECT MANAGER

The Lord Pilkington Prize Gold Medallist for 2004, Gerry is currently working as a project manager for MACE Limited, a major Construction Management Company in the UK.

"The programme is very focused, ensuring that up to date methods are to the fore." Gerry aims to rise to the top of his profession and having already achieved first in the world for his Construction Management Project, his future seems assured.

Graduate **Profile**

Nadine Scallan
CHARTERED QUANTITY SURVEYOR

"I am currently employed as a Senior Surveyor. Projects with which I have been involved to date include housing and apartment developments, hotels, an art gallery and a health centre.

My role on these projects extends from preparing budgets, bills of quantities, interim valuations, project cost control and cost reviews to the preparation and agreement of final accounts. What I enjoy most about my job is the range and variety of projects."

First Year Modules http://modules.cit.ie

SEMESTER 1
- Creativity, Innovation & Teamwork
- Construction Graphics
- Building & Environment
- Construction Technology
- Mathematics for Construction/Architecture
- Construction Industry & Procedures

SEMESTER 2
- Construction Materials & Structures
- Building & Environment
- Measurement & Procedures
- Organisation & Management
- Construction Technology
- *Electives (Choose 1)*
- *Construction Graphics & Communications*
- *Free Choice Module*

Architecture (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CK 606	At least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at Grade D3 (Ordinary or Higher Level). *The six subjects must include English, Irish, and Mathematics. (These entry requirements are under review).*	Katherine Keane ***Department of Architecture, CIT*** T: 021 432 6588 E: katherine.keane@cit.ie Gerry McCarthy ***Cork Centre for Architectural Education*** T: 021 429 8401

AWARD

Bachelor of Science (Honours) in Architecture

The BSc (Honours) Degree in Architecture is jointly offered by Cork Institute of Technology (CIT) and University College Cork (UCC).

CK 606	CAO Points 2009
Round 1 Points	465
Final Points	450

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Art, Mathematics, English, Design and Communication Graphics, and a Science subject.

Where will I be studying?

The majority of lectures, practicals and studio work are held in the Cork Centre for Architectural Education in Copley Street, Cork City. Some instruction may take place in the CIT campus and the UCC campus.

About Architecture

Architecture combines art, science and technology in the designing and building of structures and their surroundings within the context set by a variety of conditions and influences.

This is a studio and project-led course integrating the three pillars of architectural education; design, technology and the humanities. The first year of study provides a foundation in design and the built environment, appropriate to both the discipline of architecture and associated design courses. The following years of study will become progressively more architecturally focused whilst still allowing and encouraging experimentation and research into associated disciplines as well as developing transferable skills in communication, team working, computer aided design and management.

A formal application has been made to the Royal Institute of Architects of Ireland (RIAI) for professional accreditation of this course and the Master's degree.

The BSc (Honours) in Architecture programme provides:

- → understanding of the social, environmental and cultural implications of design within the built environment
- → awareness of the professional responsibilities of architects within the building process
- → preparation of architects to work in, manage and lead integrated design teams
- → a basis for subsequent education and professional qualification
- → development of the knowledge and skills for independent study and design and for postgraduate study and research.

Graduates may specialise in certain types of buildings, or concentrate on a particular area such as design, technology, architectural conservation or project management. Graduates may work as part of a team in private practice, or in the architectural section of a commercial organisation or a Government Department or Local Authority.

Further Studies

Suitably qualified graduates will be eligible to enter a Masters of Architecture programme, which together with a Certificate in Architectural Professional Practice and Practical Experience, will provide the overall education programme geared towards professional accreditation.

First Year Modules

SEMESTER 1

Design Studio 1
Applied Technology Studio 1
Construction, Materials and Structures
History and Theory of Architecture 1

SEMESTER 2

Design Studio 2
Applied Technology Studio 2
Construction Materials and Structures 2
History and Theory of Architecture 2
Electives (Choose 1)
Photoshop and Digital Page Layout
Life Drawing
Stone Carving
Photography

Architectural Technology (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 560	Leaving Certificate in six subjects, including Mathematics and either English or Irish, and including at least two C3s at Higher Level.	Katherine Keane Department of Architecture T: 021 432 6588 E: katherine.keane@cit.ie

AWARD

Bachelor of Science (Honours) in Architectural Technology

CR 560	CAO Points 2009
Round 1 Points	370
Final Points	370

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Art, Mathematics, English, Design and Communication Graphics, and a Science subject.

About Architectural Technology

The Architectural Technologist is involved with the technical issues of the architectural design process and plays the role of a technical designer. S/he is a team player who provides an expertise in technical design principles and knowledge in the development of the built environment. S/he is an organiser and coordinator of the diverse disciplines involved in the design and construction process.

This is a studio-led course involving working drawings and other construction related projects, with a range of lectures and site visits designed to contribute to the student's comprehension and to the development of project work.

Students in Year 4 of the programme have the opportunity to pursue specific areas of research critical to the built environment and architectural practice. Students identify individual areas of interest in the architectural process and conduct intensive research leading to expertise. These emerging specialisms are sought by Architectural Practices and allied disciplines in architecture and construction and provide graduates with competitive skills.

A graduate of Architectural Technology is a critical member of the Design Team, as s/he has an excellent appreciation and knowledge of the other Design Team discipline roles, and is involved in the coordination and development of a project at all stages. Starting salary (general guideline only): €25,000 - €30,000.

Accreditation

This course is fully accredited by the Chartered Institute of Building.

Further Studies

Masters and PhD level are available to good honours graduates in colleges in Ireland and abroad.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

Creativity, Innovation & Teamwork
Architectural Graphics 1
Architectural Technology 1
Environmental Studies 1
Working Details 1
Working Drawings 1

SEMESTER 2

Architectural Graphics 2
Environmental Studies 2
Mathematics for Construction and Architecture
Working Details 2
Working Drawings 2
Electives (Choose 1)
Surveying and Levelling
Free Choice Module

Architectural Technology

Level 7 CAO Code	Admission Requirements	Enquiries
CR 090	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Katherine Keane Department of Architecture T: 021 432 6588 E: katherine.keane@cit.ie

AWARD

Bachelor of Science in Architectural Technology

hd
Progress to Honours Degree

CR 090
Round 1 Points 320
Final Points 320

CAO Points 2009

Full-time course duration
3 Years (6 Semesters)

Helpful Leaving Certificate subjects
Art, Mathematics, English, Design and Communication Graphics, and a Science subject.

About Architectural Technology
Architectural Technology, in essence, is the development of the working drawings and design detail for the architectural process, post concept stage, through to the completed building on site.

This is a studio-led course involving working drawings and other construction related projects, with a range of lectures and site visits designed to contribute to the student's comprehension and to the development of project work. CAD (Computer Aided Design) is a significant element of the course along with the more traditional graphic methods of representation. Over the duration of the course, the student develops skills related specifically to Architectural Technology as well as an appreciation of the role and requirements of other members of the building team.

A graduate of Architectural Technology is a critical member of the Design Team, as he/she has an excellent appreciation and knowledge of the other Design Team disciplines roles, and is involved in the coordination and development of a project at all stages. Starting salary (general guideline only): €23,000 - €26,000.

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

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to Year 4 (final) of
→ Bachelor of Science (Honours) in Architectural Technology, subject to availability of places.

The course also maintains co-operative links with other construction-related courses within the Institute and in other colleges.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

NB: The Department of Architecture wishes to advise that for entry in September 2013, students will require at least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at Grade D3 minimum (Ordinary or Higher Level). The six subjects must include Mathematics and either English or Irish. For entry in September 2013, students should apply for the CR560 BSc (Honours) in Architectural Technology.

Graduate **Profile**

Siobhán Keating
ARCHITECTURAL TECHNICIAN / ASSOCIATE

Siobhán is an Associate with O'Riordan Staehli Architects with particular expertise and responsibility for Fire & Safety on all projects.

"My CIT education in Architectural Technology gave me a strong technical foundation with excellent drafting skills, detail design and architectural appreciation. This is a challenging and interesting career. The work is always varied and very team orientated. I work very closely with all members of the Design Team – Clients, Quantity Surveyors, Engineers and Contractors, ensuring that the full co-ordination of all the building elements complements the building design."

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Architectural Graphics 1
- Architectural Technology 1
- Environmental Studies 1
- Working Details 1
- Working Drawings 1

SEMESTER 2
- Architectural Graphics 2
- Environmental Studies 2
- Mathematics for Construction and Architecture
- Working Details 2
- Working Drawings 2
- *Electives (Choose 1)*
- *Free Choice Module*
- *Surveying and Levelling*

Interior Architecture (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 565	Leaving Certificate in six subjects, including Mathematics and either English or Irish, and including at least two C3s at Higher Level.	Kevin Busby *Department of Architecture* T: 021 432 6041 E: kevin.busby@cit.ie Katherine Keane *Department of Architecture* T: 021 432 6588 E: katherine.keane@cit.ie

AWARD

Bachelor of Science (Honours) in Interior Architecture

CR 565	CAO Points 2009
Round 1 Points	295
Final Points	295

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Art, English, Mathematics, Design and Communication Graphics, and a Science subject.

About Interior Architecture

Interior Architecture involves the design of interiors of buildings, their layout, fitting, furnishing and decoration and the preparation of all technical drawings and written documentation necessary for the carrying out of the work. The design work of the Interior Architect includes domestic, commercial, leisure, retail, educational and healthcare interior projects. Interior architectural design encompasses many types of interiors and utilises accompanying skills. The graduate will be able to develop designs and their attendant working drawings, and will deal with contractors, suppliers and local authorities.

The core of this programme is the design studio where skills in design and representation are integrated with mastery of content from other modules. The emphasis is the development of strong design and analytical skills in a studio-based environment.

Modules in the award stage of the honours degree will include a comprehensive Design Project, as well as modules in the areas of:

- Conservation
- Sustainability
- Research Methods
- Fire and Safety
- Professional Practice

This course qualifies graduates to work in architectural practice, interior design firms, and allied disciplines in the capacity of Interior Architect as a designer with a developed area of focus and expertise or in entry management positions. The graduate may also select self-employment after a suitable period of practical experience. Starting salary (general guideline only): €20,000 - €25,000.

Accreditation

This course is fully accredited by the Chartered Institute of Building.

Further Studies

Attractive postgraduate opportunities at Masters and PhD level in allied disciplines are available in Ireland and abroad.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

Creativity, Innovation & Teamwork
Design Primer
Design Studio I
Graphics Primer
History & Theory of Design 1
Mathematics for Construction and Architecture

SEMESTER 2

Design Studio II
Graphics Standards
Interior Building Technology I
Interior Design Factors
Practical Science
Electives (Choose 1)
Free Choice Module
Furniture Studies

Interior Architecture

Level 7 CAO Code	Admission Requirements	Enquiries
CR 053	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Kevin Busby *Department of Architecture* T: 021 432 6041 E: kevin.busby@cit.ie Katherine Keane *Department of Architecture* T: 021 432 6588 E: katherine.keane@cit.ie

AWARD

Bachelor of Science in Interior Architecture

hd
Progress to Honours Degree

CR 053
Round 1 Points 230
Final Points 230

CAO Points 2009

Full-time course duration
3 Years (6 Semesters)

Helpful Leaving Certificate subjects
Art, Construction Studies, and Design and Communication Graphics.

About Interior Architecture
Interior Architecture involves the design of interiors of buildings, their layout, fitting, furnishing and decoration and the preparation of all technical drawings and written documentation necessary for the carrying out of the work. The design work of the Interior Architect includes domestic, commercial, leisure, retail, educational and healthcare interior projects. Interior architectural design encompasses many types of interiors and utilises accompanying skills.

This course qualifies graduates to work in architectural and interior design firms, in junior management positions, and prepares the individual to choose self-employment after a suitable period of practical experience. This mainly studio-based course is taught through formal lectures and tutorials. It has a significant amount of time allocated to studio and project work. There is a high technical input, supplementing the design drawing and presentation content.

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

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to Year 4 (final) of
→ Bachelor of Science (Honours) in Interior Architecture, subject to availability of places.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

NB: The Department of Architecture wishes to advise that for entry in September 2013, students will require at least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at Grade D3 minimum (Ordinary or Higher Level). The six subjects must include Mathematics and either English or Irish. For entry in September 2013, students should apply for the CR565 BSc (Honours) in Interior Architecture.

Graduate **Profile**

Breeda O'Donoghue
SENIOR DESIGNER

Breeda works with Houseworks Cork as a Senior Designer. Working exclusively with SieMatic Kitchens, Breeda began work with six months post-qualification training in Dublin, before joining the Cork showrooms as it's only designer.

Breeda has earned a wealth of experience in dealing with private and commercial projects alike. Her work ranges from presenting the SieMatic range in the showroom to preparing detailed design layouts for prospective clients.

Breeda was awarded Young Designer for Kitchens by the Bathrooms & Kitchens Industry Awards in the UK in 2005.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Design Primer
Design Studio I
Graphics Primer
History & Theory of Design 1
Mathematics for Construction and Architecture

SEMESTER 2
Design Studio II
Graphics Standards
Interior Building Technology I
Interior Design Factors
Practical Science
Electives (Choose 1)
Furniture Studies
Free Choice Module

Chemical & Biopharmaceutical Engineering (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 105	Leaving Certificate in six subjects, including either English or Irish, and including at least two C3s at Higher Level, one of which must be Mathematics. ▲	John T. O'Shea Department of Chemical and Process Engineering T: 021 432 6885 E: john.oshea@cit.ie

AWARD

Bachelor of Engineering (Honours) in Chemical and Biopharmaceutical Engineering

▲ The requirement for HC3 Mathematics may also be satisfied by HC3 in Applied Mathematics plus HD2 in Mathematics OR by a specified grade in the CIT Special Engineering Entrance Examination in Mathematics.

CIT Maths Exam Option

CR 105	CAO Points 2009
Round 1 Points	410
Final Points	375

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Mathematics, Chemistry, Physics, Applied Mathematics and Biology. We recommend that you have two of the three science subjects.

Work Placement
A salaried placement at the end of Year 3 is spent either in industry or with a consultancy. The majority of the placements are in Ireland but some placements are abroad.

About Chemical & Biopharmaceutical Engineering
Chemical Engineering is all about change; creating life-enhancing products and services by applying scientific and mathematical understanding to design and control processes that change raw materials into useful products. In simple terms, Chemical Engineers create and develop processes to make useful products from raw materials, in a cost effective and safe manner. Chemical Engineering is ideally suited to students with ability in mathematics and chemistry, who enjoy problem solving and aspire to be successful.

Chemical Engineers work in large international companies, as well as smaller companies, in sectors as wide ranging as chemicals, oil and gas, pharmaceuticals, food and drink, biotechnology and water. They are also highly sought after in business and finance. Starting salary (general guideline only): €30,000.

The programme includes lectures, practical and laboratory classes and project sessions. For more information ask your guidance counsellor about the DVD "A Career in Chemical Engineering". This DVD has been sent to all second level guidance counsellors. Also visit: www.whynotchemeng.com

Accreditation
The honours degree course is fully accredited by Engineers Ireland and by the Institution of Chemical Engineers. This is one of only three courses in Ireland in Chemical and/or Biopharmaceutical Engineering to have gained full accreditation from both professional bodies. The Institution of Chemical Engineers (IChemE) accredits this degree at Masters Level in an international context. This means that the IChemE rates CIT's BEng (Honours) Degree in Chemical & Biopharmaceutical Engineering on a par in terms of standard and quality with MEng degrees offered by top international institutions such as Cambridge University, Imperial College London and the University of Sydney.

Further Studies
For details, see www.cit.ie

The Department offers a Masters of Science by Research and a Doctor of Philosophy.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate Profile

Caroline Barry
SENIOR PROCESS ENGINEER

Caroline worked as a Chemical and Process Engineer at Schering Plough (Brinny). "I've had brilliant opportunities to travel," she says, citing opportunities to visit the company's plants in New Jersey, Singapore and Puerto Rico. She has now moved to Glaxo SmithKline, Co Cork. "The best part of the job," she adds, is that "it's very challenging the whole time. You are always thinking about improving and optimising. We are trying to save money at the end of the day. You are constantly thinking from a safety point of view and an environmental point of view."

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Biomolecules and Cells
- Engineering Physics 1
- Engineering Chemistry
- Engineering Mathematics 1
- Process Principles & Design 1

SEMESTER 2
- Engineering Mathematics 2
- Computing for Chemical & Process Engineers
- Chemical and Biopharmaceutical Engineering
- Process Engineering Lab 1
- Organic Chemistry
- Process Principles & Design 2
- *Electives (Choose 1)*
- *Introduction to Industrial Biotechnology*
- *Solid Mechanics*
- *Free Choice Module*

Electronic Systems Engineering (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 590	Leaving Certificate in six subjects, including Mathematics and either English or Irish, with at least two C3 grades at Higher Level.	Dr Oliver Gough Department of Electronic Engineering T: 021 432 6178 E: oliver.gough@cit.ie

AWARD

Bachelor of Engineering (Honours) in Electronic Systems Engineering

CR 590 **CAO Points 2009**

Round 1 Points	290
Final Points	290

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Mathematics, English, Applied Mathematics, Physics, and Chemistry.

About Electronic Systems Engineering

Electronics systems are used for the collection, processing and transmission of information. Examples are household appliances, personal electronic items, telecommunications and computer systems. They are all "intelligent" systems since they have microprocessors in them and this means they need a programme to make them work. The combination of processors (hardware), programmes (software), and the ability to communicate is known as an electronic system.

The course involves theory, practice, and project work. The technical subjects are supported by a range of professional development modules which work on the individual's ability to communicate, work in teams and understand business concepts.

This Honours Degree programme will provide a sound preparation for careers in design/development in Software/ Hardware Engineering. Graduate electronic engineers may find work in technology related companies in Ireland or abroad.

Further Studies

For details,
http://e-eng.cit.ie/DegreeIntro.html

- → Taught Masters of Engineering in Embedded Systems Engineering
- → Research Masters
- → PhD

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

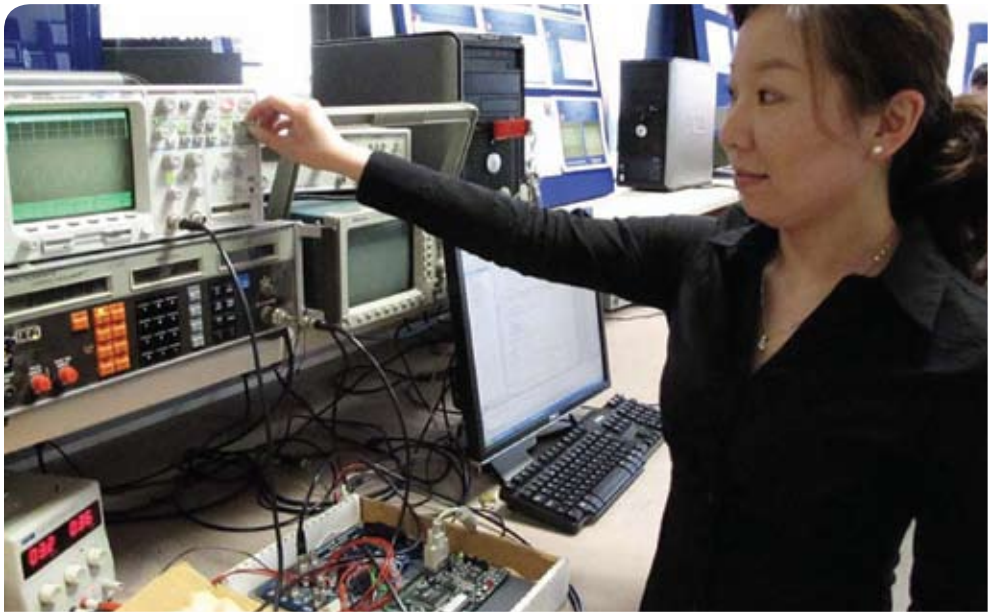
First Year Modules

SEMESTER 1

Creativity, Innovation & Teamwork
Analogue Electronics 1
Electrical Science 1
Technological Mathematics 1
Digital Systems 1
Electronic Applications 1

SEMESTER 2

Analogue Electronics 2
Electrical Science 2
Technological Mathematics 2
Digital Systems 2
Embedded Programming
Electives (Choose 1)
Free Choice Module
Electronics Applications 2
Animatronics 1



Electronic Engineering

Level 7 CAO Code	Admission Requirements	Enquiries
CR 061	Leaving Certificate Grade D3 at Ordinary Level in 5 subjects including Mathematics and either English or Irish.	Michael O'Gorman Department of Electronic Engineering T: 021 432 6360 E: michael.ogorman@cit.ie

AWARD

Bachelor of Engineering in Electronic Engineering

hd
Progress to Honours Degree

CR 061
Round 1 Points 215
Final Points 200

CAO Points 2009

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Electronic Engineering.

Helpful Leaving Certificate subjects
Physics, Chemistry, Engineering, and English. A D in Pass Mathematics is the minimum required although a higher grade is recommended.

About Electronic Engineering
Electronic Engineering works closely with the systems used for the transmission and processing of all information, from simple control circuits to complex international satellite digital telecommunications systems. It includes analogue and digital television systems, portable computers, super computers and sophisticated space exploration systems.

The course begins with digital electronics in Year 1 and progresses through microprocessors, PICs, to firmware development and digital systems design. In parallel, you will learn fundamentals of Control and Telecommunications theory and apply them using intelligent systems platforms. The result is a rounded education in electronic systems combining intelligence, control/feedback and communications.

Electronic Engineering careers cover a stimulating and challenging range of disciplines including Electronics, Computer Engineering & Software, Communications & Telecommunications, Control & Automation, and Electronics Manufacturing.

Further Studies
For details, see www.cit.ie and http://e-eng.cit.ie/DegreeIntro.html

Suitably qualified graduates are eligible to apply for entry to Year 4 (final) of
→ Bachelor of Engineering (Honours) in Electronic Systems Engineering.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Michael Manning
CONTROL SYSTEMS ENGINEER

Michael graduated with an Honours Degree. "Currently I am working as a Control Systems Track Support Junior Engineer for the MF1 Racing Team based in Silverstone, England. I provide track support for the chassis/gearbox control systems fitted to the cars. It was easy for me to choose Electronic Engineering. In school, my main interests were engineering based, Physics, Mathematics and Technical Drawing. I chose Electronics as I believed it offered the most challenges and opportunities. My desire to enter the automotive industry was also a contributing factor."

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Technological Mathematics 1
Digital Systems 1
Electrical Science I
Electronics Applications
Analogue Electronics 1

SEMESTER 2
Electrical Science 2
Technological Mathematics 2
Digital Systems 2
Analogue Electronics 2
Embedded Programming
Electives (Choose 1)
Electronic Applications 2
Animatronics 1
Free Choice Module

Electrical Power Systems (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 580	Leaving Certificate in six subjects including Mathematics, and either English or Irish, with at least two C3 grades at Higher Level.	Pádraig Ó Murchú Department of Electrical Engineering, T: 021 432 6656 E: padraig.omurchu@cit.ie

AWARD

Bachelor of Engineering (Honours) in Electrical Power Systems

CR 580 CAO Points
New CAO Course Entry 2011

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Mathematics, Physics, Applied Mathematics, Design and Communication Graphics, Engineering, and English.

About Electrical Power Systems
The aim of electrical engineering is to generate, distribute and apply electrical energy safely and economically and in a sustainable way for future generations to come. This includes the design of renewable generation distribution systems and combined heat and power systems for domestic, commercial, medical, leisure and industrial premises.

This syllabus is designed to prepare graduates for work in electrical power and automation systems within industry. The high academic standard of the course is complemented by a strong emphasis on applications and project work. Course activity consists of formal lectures, practical work and projects. There is continuous assessment of practical work in addition to examinations.

Graduates will have acquired both the knowledge and the competence to work as engineers in generation and distribution of electrical energy, in the control of automated production systems with particular emphasis on power drives and aspects of robotic control, in the design and maintenance of Combined Heat and Power (CHP) and in embedded generation systems and the design, in the application and maintenance of renewable sources of electrical energy such as wind energy and fuel cells. Graduates can expect to find employment in the industrial, manufacturing, contracting, utility/process, sales/marketing and consultancy areas dealing initially with technical and engineering aspects. Starting salary (general guideline only): €25,000 – €30,000.

Further Studies
For details, see www.cit.ie

Honours Degree graduates may undertake relevant Master or PhD Degrees at CIT in the areas of:

- Renewable Energy Systems
- Electrical Control Systems
- Embedded Generation (CHP and renewables)
- Electrical System Planning

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Technological Mathematics 1
Electrical Science 1
Industrial Electronics 1
Computer Application
Electrical Power Systems

SEMESTER 2
Technological Mathematics 2
Electrical Science 2
Industrial Electronics 2
Electrical & Electronics Draughting
Electrical Installation
Electives (Choose 1)
Installation Practicals
Free Choice Module

Graduate **Profile**

Liam Buckley
ELECTRICAL ENGINEER/RESEARCHER

In previous years, the BEng (Honours) in Electrical Power Systems was offered as an add-on Level 8 honours degree to suitably qualified graduates of the BEng in Electrical Engineering. Liam Buckley took this route and in 2003 qualified with distinction and was also awarded a Faculty gold medal for excellence. Liam is currently on a full time research masters programme working in the area of Combined Heat and Power (CHP) as an energy source within CIT. He has made presentations at conferences in both Edinburgh and Germany. "As an Electrical Engineer I always wanted to learn more about energy technology. This Level 8 programme was very beneficial as the lecturers have an in-depth knowledge of power engineering and power systems which was key in allowing me to continue on to a Level 9 masters programme."

Electrical Engineering

Level 7 CAO Code	Admission Requirements	Enquiries
CR 062	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Noel Mulcahy Department of Electrical Engineering T: 021 432 6206 E: noel.mulcahy@cit.ie

AWARD

Bachelor of Engineering in Electrical Engineering

hd
Progress to Honours Degree

CR 062
Round 1 Points
Final Points

CAO Points 2009
240
235

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Electrical Engineering.

Helpful Leaving Certificate subjects
Mathematics, Physics, Applied Mathematics, Design and Communication Graphics, Engineering, and English.

About Electrical Engineering
The aim of Electrical Engineering is to generate, distribute and apply electrical energy safely and economically, and in a sustainable way for future generations to come. This includes the design of renewable generation distribution systems and combined heat and power systems for domestic, commercial, medical, leisure and industrial places of living and working.

Emphasis is placed on power electrical engineering, its sustainable generation, control, safe use and application. The high academic standard of the course is complemented by a strong emphasis on applications and project work. Course activity consists of formal lectures, practical work and projects. There is continuous assessment of practical work in addition to examinations.

Graduates can expect to find employment in the industrial, manufacturing, contracting, utility/process, sales/marketing and electrical engineering consultancy areas, dealing initially with technical and engineering aspects. Starting salary (general guideline only): €25,000 - €35,000.

Accreditation
This course is accredited by Engineers Ireland.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to Year 4 (final) of
- Bachelor of Engineering (Honours) in Electrical Power Systems.

Postgraduate Programmes
Honours Degree graduates may undertake relevant Master or PhD Degrees at CIT in the areas of:
- Renewable Energy Systems
- Electrical Control Systems
- Embedded Generation (CHP and renewables)
- Electrical System Planning

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

David Gardiner
ELECTRICAL ENGINEER

David graduated with a Bachelor of Engineering in Electrical Engineering and progressed to an honours degree in Electrical Power Systems. He is employed by Project Management Ltd as an electrical engineer.

David says that his studies in CIT have given him the specific tools needed to undertake his everyday tasks working as an electrical design engineer across a wide range of electrical design scenarios both in the commercial and pharmaceutical industries.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Technological Mathematics 1
Electrical Science 1
Industrial Electronics 1
Computer Application
Electrical Power Systems

SEMESTER 2
Technological Mathematics 2
Electrical Science 2
Industrial Electronics 2
Electrical & Electronics Draughting
Electrical Installation
Electives (Choose 1)
Installation Practicals
Free Choice Module

Mechanical Engineering (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 108	Leaving Certificate in six subjects, including either English or Irish, and including at least two C3s at Higher Level, one of which must be Mathematics. ▲	Dr Michael J O'Mahony Department of Mechanical Engineering T: 021 432 6505 E: michael.jomahony@cit.ie

AWARD

Bachelor of Engineering (Honours) in Mechanical Engineering

▲ The requirement for HC3 Mathematics may also be satisfied by HC3 in Applied Mathematics plus HD2 in Mathematics OR by a specified grade in the CIT Special Engineering Entrance Examination in Mathematics.

CIT Maths Exam Option

CR 108 **CAO Points 2009**

Round 1 Points	345
Final Points	330

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Mathematics, Physics, Applied Mathematics, Engineering, and Chemistry.

Work Placement
Work placement (minimum of ten weeks) is mandatory in Year 3. Students have the option of placement in industry in Ireland or abroad or in a research laboratory in Ireland or with one of our partner institutions abroad (France, Germany, Italy, UK etc.).

About Mechanical Engineering
Mechanical Engineering involves the design, manufacture and operation of products that have motion or have internal moving parts. This ranges from the design and manufacture of high performance engines, machines with atomic level precision to aircraft, wind turbines, major power plants and process equipment to the maintenance of industrial, chemical, pharmaceutical and food processing plants.

Design and project work is a major feature of the course. There is a mixture of continuous assessment and a series of semesterised exams. In the final year each student undertakes an individual project involving research, design, prototype development and experimental verification to meet a real need.

Honours Degree graduates generally gain employment as mechanical, design, manufacturing, production, process, plant, project or maintenance technologists/engineers. They work in fields such as aerospace, automotive, computer and electronic manufacture, machine and plant design, power generation, engine design, contracting and consulting. Starting salary (general guideline only): €30,000+.

Accreditation
This course is fully accredited by Engineers Ireland such that the student may proceed to Chartered Engineer status. Engineers Ireland represents all engineering disciplines in Ireland and is a member of Féderation Européene d'Associations Nationales d'Ingenieurs (FEANI) through which Irish engineers are recognised in Europe. Engineers Ireland is a signatory to the Washington Accord through which Irish engineers are recognised in USA, Canada, Australia, New Zealand, Hong Kong, South Africa and UK.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates may pursue the Master of Engineering Degree by research and the Doctor of Philosophy in Engineering by research at the Institute.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Neil Murray
MECHANICAL ENGINEER

Neil graduated with an Honours Mechanical Engineering Degree from CIT. He then completed a Masters in MIT in the area of Aeronautics/Astronautics. Neil then entered Imperial College London as a Research Associate to pursue a PhD in Aerospace Engineering. After completing his PhD, he joined the European Space Agency (near Amsterdam) as a Research Fellow in Aerothermodynamics. "In CIT, I received a strong foundation in Mathematics, Physics and Engineering. The course developed my problem solving expertise and this has allowed me to seamlessly develop into advanced areas of research in the space industry. The course promotes flexibility and actively facilitates the student in achieving career diversity."

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Engineering Physics 1
- Introductory Mechanics
- CAD & Design 1
- Engineering Maths 101
- Engineering Workshop Practice

SEMESTER 2
- Material Science & Engineering
- CAD & Design 2
- Introductory ThermoFluids
- Engineering Maths 102
- Engineering Chemistry
- *Group Elective*
- *Sustainable Energy 1 (Systems)*
- *Electives (Choose 1)*
- *Scientific Computing 1*
- *Free Choice Module*

Mechanical and Manufacturing Engineering

Level 7 CAO Code	Admission Requirements	Enquiries	
CR 071	Leaving Certificate Grade D3 at Ordinary or Higher level in five subjects including Mathematics and either English or Irish.	Bernard O'Callaghan Department of Mechanical Engineering T: 021 432 6505 E: bernard.ocallaghan@cit.ie	James Calvey Department of Manufacturing, Biomedical & Facilities Engineering T: 021 432 6505 E: james.calvey@cit.ie

AWARDS

Bachelor of Engineering in Mechanical Engineering
Bachelor of Engineering in Manufacturing Engineering

Students share a common Year 1 and Year 2. They will not be required to choose their preferred qualification until the start of Year 3.

hd
Progress to Honours Degree

CR 071 **CAO Points 2009**

Round 1 Points	320
Final Points	320

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Engineering in Mechanical Engineering.

Helpful Leaving Certificate subjects
Mathematics, Physics, Engineering, Chemistry, and English.

About Mechanical and Manufacturing Engineering
Mechanical and manufacturing engineers play a crucial role in a wide range of industries, among them air, rail, sea and road. They are involved in high precision processes such as the design and manufacture of prosthetic devices and robotic mechanisms. The physical scale of their work ranges from nanoscale motors and pumps through to high speed trains, wind turbines and rockets/vehicles for space exploration.

The Mechanical Engineering stream enables students to learn how to systematically design essential machine elements and using three dimensional computer aided design modelling software, to display and test these models.

The Manufacturing Engineering stream trains students in the design, manage and control of systems within modern manufacturing organisations.

Employment opportunities are in the high-tech manufacturing industries at technician engineer level dealing with design, production, manufacturing, quality, estimating, planning and the operation and maintenance of high-tech automated manufacturing equipment. Other opportunities are in technical and sales support with contracting, consulting engineers and servicing companies. Starting salaries (general guideline only): €28,000+.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to the one year add-on
- → Bachelor of Science (Honours) in Process Plant Technology *or*
- → Bachelor of Science (Honours) in Advanced Manufacturing Technology.

A limited number of candidates may also be considered for entry to Year 3 (which necessitates two further years of study) of either the
- → Bachelor of Engineering (Honours) in Mechanical Engineering *or*
- → Bachelor of Engineering (Honours) in Sustainable Energy.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Mechanics 1
Materials & Processes
Welding Technology
Introductory CAD
Mechatronics 1

SEMESTER 2
Technological Mathematics 1
Thermofluids 1
Mechanical Workshop Practice
Engineering Graphics & Design 1
ICT for Engineering Technicians
Electives (Choose 1)
Instrument Calibration
Introduction to Auto Engines
Free Choice Module

Mechanical Engineering student, Xiao Fang Zhang, is awarded the Innovact Student Laureates 2010 Award.

Sustainable Energy (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 510	Leaving Certificate in six subjects, including Mathematics and either English or Irish, and including at least two C3s at Higher Level in any subjects.	Dr Chris Gibbons Department of Mechanical Engineering T: 021 432 6224 E: chris.gibbons@cit.ie

AWARD

Bachelor of Engineering (Honours) in Sustainable Energy

CR 510	CAO Points 2009
Round 1 Points	385
Final Points	380

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Mathematics, Physics, Engineering, Design and Communication Graphics, and Applied Mathematics.

Work Placement

There is a mandatory work placement module for a minimum of 6 weeks in Year 3. The student will be placed in an energy related industry, consultancy, government agency (SEI), or research group. The placement will be assessed by means of presentations, reports and research project development. There may be opportunities for students to spend this period abroad on a European exchange programme.

About Sustainable Energy

Sustainable Energy involves the understanding and application of the engineering and technological principles of energy conversion and use.

Attention is given to component scale and systems design along with efficient management, control and measurement of energy supply systems. The first two years of the course introduce and develop the fundamental components of an engineering discipline. The third and fourth years extend the specialist nature of the course.

The energy sector is experiencing a skills shortage in terms of the availability of graduate engineers with knowledge and working experience of energy use, management, and planning. Positions within the energy sector include; Energy Management, Energy Systems Design, Energy Project Management, Energy Component Design, Energy Consultant Support, Systems Engineering and Power Engineering.

Further Studies

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

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

- Creativity, Innovation & Teamwork
- Electrotechnology
- Climate Change and Energy
- Introductory CAD
- Thermofluids 1
- Sustainable Energy 1 (Systems)

SEMESTER 2

- Engineering Graphics & Design 1
- ICT for Engineering Technicians
- Instrument Calibration
- Technological Mathematics 1
- Mechanics 1
- *Electives (Choose 1)*
- *Wind Energy*
- *Construction Technology*
- *Free Choice module*

Biomedical Engineering (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 520	Leaving Certificate in six subjects, including either English or Irish and including at least two C3s at Higher Level, one of which must be Mathematics. ▲	Dr Keith Bryan Department of Manufacturing, Biomedical & Facilities Engineering T: 021 432 6742 E: keith.bryan@cit.ie

AWARD

Bachelor of Engineering (Honours) in Biomedical Engineering

▲ The requirement for HC3 Mathematics may also be satisfied by HC3 in Applied Mathematics plus HD2 in Mathematics OR by a specified grade in the CIT Special Engineering Entrance Examination in Mathematics.

CIT Maths Exam Option

CR 520	CAO Points 2009
Round 1 Points	350
Final Points	350

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Mathematics, Physics, Biology, and Engineering.

Work Placement
Formal work placement (minimum of ten weeks) is an integral element of the course and takes place in Semester 2 of Year 3.

About Biomedical Engineering
Biomedical Engineering combines engineering with an appreciation of the functioning of the human body, whether healthy, injured or diseased. The requirement for specialised biomedical engineers is growing rapidly as the Medical Device industry in Ireland (which accounts for €6.2bn of Irish exports) develops its capability from manufacturing into product research & development.

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

This course integrates the study of biological systems, biomedical devices and clinical engineering with traditional mechanical, electrical and manufacturing engineering. The course is delivered through formal lectures, tutorials, practical and project work. Projects are carried out in conjunction with industry, with medical practitioners and with the Biomedical Engineering unit of Cork University Hospital.

Graduates can look forward to careers in the medical device industry, in the design and manufacture of medical devices, in research roles within industry or in academic research. Graduates can also enter the hospital or clinical environment to work as clinical engineers. Starting salary (general guideline only): €25,000 - €35,000.

Further Studies
For details, see www.cit.ie/bioeng or www.medic.ie

Suitably qualified graduates are eligible to progress to taught Masters programmes or to research at either Masters or PhD level. CIT has also set up the Medical Engineering Design and Innovation Centre (MEDIC) as a vehicle for biomedical device research.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Engineering Workshop Practice
- Applied Biology of the Cell
- Engineering Physics 1
- CAD & Design 1
- Engineering Mathematics 101

SEMESTER 2
- Materials Science
- Engineering Chemistry
- Introduction to Thermo Fluids
- Applied Anatomy and Physiology
- Engineering Mathematics 102
- Introduction to Biomechanics

World Silver medallist Olive Loughnane visits CIT's Performance Analysis Lab at the Biomedical Engineering Department.

Biomedical Engineering

Level 7 CAO Code	Admission Requirements	Enquiries
CR 075	Leaving Certificate Grade D3 at Ordinary or Higher Level in 5 subjects including Mathematics and either English or Irish.	Daithí Fallon Department of Manufacturing, Biomedical & Facilities Engineering T: 021 432 6172 E: daithi.fallon@cit.ie

AWARD

Bachelor of Engineering in Biomedical Engineering

hd
Progress to Honours Degree

CR 075	CAO Points 2009
Round 1 Points	300
Final Points	260

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Engineering in Biomedical Engineering.

Helpful Leaving Certificate subjects
Mathematics, Physics, Biology and Engineering.

About Biomedical Engineering
Biomedical Engineering combines engineering with an appreciation of the functioning of the human body, whether healthy, injured or diseased. The requirement for specialised biomedical engineers is growing rapidly as the Medical Device industry in Ireland develops its capability from manufacturing into product research & development. In addition, technology is now touching all aspects of medicine and the delivery of health services.

In the clinical context, biomedical engineers play a key role in designing, sourcing and maintaining equipment, facilities and services within hospitals. Biomedical Engineers are therefore required at all stages from product design, to product manufacture, to technical support and interfacing with medical users in clinical environments. Products include prosthetic devices to provide the disabled with tools to improve their quality of life, disposable plastic and wound care products, and precision metal implants including pacemakers, microelectronic devices, orthopaedic implants, diagnostics, contact lenses and stents.

The course is delivered through formal lectures, tutorials, practical and project work. Projects are carried out in conjunction with industry, with medical practitioners and with the Biomedical Engineering unit of Cork University Hospital.

Graduates will be qualified to work as biomedical engineering technicians within the healthcare, medical device industries, in research and development facilities, and also in clinical/hospital environments. Starting Salary (general guidelines only): €25,000 - €28,000.

Further Studies
For details, see www.cit.ie/bioeng

Subject to availability of places, suitably qualified graduates may apply to
- Bachelor of Engineering (Honours) in Biomedical Engineering or
- Bachelor of Science (Honours) in Advanced Manufacturing Technology.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Denise O'Brien
BIOMEDICAL CLINICAL ENGINEER

After graduating, Denise began employment as part of the Baxter team in Baxter Healthcare Ltd. Baxter Healthcare Ltd in Ireland provide a comprehensive range of products in anaesthesia, asset management systems for the biomedical sector, biopharmaceuticals, blood collection and transfusion, oncology, renal and medication management and safety. Denise now works in the Cork University Hospital as a Biomedical/ Clinical Engineer. The Biomedical team is responsible for the sourcing and maintenance of hospital and critical care equipment as well as the training of medical staff on technically complex diagnostic and patient monitoring equipment.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Thermofluids 1
Materials & Processes
Mechanics 1
ICT for Engineering Technicians
Applied Biology of the Cell

SEMESTER 2
Instrumentation & Measurement
Introductory CAD
Technological Mathematics 1
Mechatronics 1
Applied Anatomy and Physiology
Electives (Choose 1)
Biomedical Devices
Free Choice Module

Building Services Engineering

Level 7 CAO Code	Admission Requirements	Enquiries
CR 072	Leaving Certificate Grade D3 at Ordinary or Higher Level in 5 subjects including Mathematics and either English or Irish.	Fergus Delaney Department of Manufacturing, Biomedical & Facilities Engineering T: 021 432 6744 E: fergus.delaney@cit.ie

AWARD
Bachelor of Engineering in Building Services Engineering

hd
Progress to Honours Degree

CR 072	CAO Points 2009
Round 1 Points	200
Final Points	200

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Building Services Engineering.

Helpful Leaving Certificate subjects
Mathematics, Physics, Engineering, and Chemistry.

About Building Services Engineering
Building Services Engineering involves the design of the services that allow people to function within an enclosed structure such as an office block, a sports centre, a shopping centre, a hi-tech factory or a hospital. Building Services Engineers optimise the interaction between building fabric performance and human comfort. This requires the design of systems that can maintain an internal environment with the correct air quality, lighting levels and heating/cooling levels. All of these must be delivered in the most environmentally sustainable way. Students will study the latest sustainable energy systems/technologies to achieve this goal.

The course is taught through the medium of formal lectures, tutorials, laboratory, practical and project work. A major services design project allows the students to demonstrate their design ability as well as their project management skills.

Graduates find employment in the expanding services sector in design consultancies, mechanical and electrical contractors and equipment suppliers. There is a variety of job opportunities ranging from management to pure design. Starting salary (general guideline only): €25,000 - €28,000.

Further Studies
For details, see www.cit.ie

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

- Bachelor of Engineering (Honours) in Building Energy Systems
- Bachelor of Science (Honours) in Process Plant Technology.
  or to Year 3 (carrying exemptions) of
- Bachelor of Engineering (Honours) in Sustainable Energy

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Paul O'Sullivan
BUILDING SERVICES ENGINEER

Paul equates a qualification in Building Services Engineering with having a passport and a ticket. If you want to travel, there are building services projects all over the world. Paul has worked on projects in Athens and Paris. He currently works for a Dublin based Mechanical and Electrical contractor and is a site-based engineer involved in the tendering, installation, testing, commissioning and handover of Building Services systems. "There is great satisfaction converting a 2D design into a fully functioning system."

First Year Modules

SEMESTER 1
Creativity, Innovation and Teamwork
ICT for Engineering Technicians
Building Services Electrotechnology 1
Building Services Mechanical 1
Introductory CAD
Thermofluids 1

SEMESTER 2
Building Services CAD Electrical
Building Services CAD Mechanical
Building Services Electrotechnology 2
Technological Mathematics
Mechanics 1
Electives (Choose 1)
Building Services Processes
Free Choice Module

Transport Management & Technology

Level 7 CAO Code	Admission Requirements	Enquiries
CR 046	Leaving Certificate Grade D3 at Ordinary or Higher Level in 5 subjects including Mathematics and either English or Irish.	Clive Atkinson Department of Mechanical Engineering T: 021 432 6273 E: clive.atkinson@cit.ie

AWARD

Bachelor of Science in Transport Management and Technology

hd
Progress to Honours Degree

CR 046

CAO Points 2009	
Round 1 Points	200
Final Points	200

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Engineering in Automobile Technology.

Helpful Leaving Certificate subjects
Engineering, Physics, and Business.

About Transport Management & Technology
The motor and transport industries require highly qualified people at supervisory and management level. Technological advances have made both vehicles and transportation more efficient, more environmentally friendly and safer. This programme is designed to take account of these advances and it prepares graduates for employment within such a dynamic industry. The programme has a unique combination of theoretical and applied areas of study in conjunction with relevant business subjects. In short, the programme provides the basis for a successful career within the motor and transport industries.

The programme is taught through a combination of lectures, practical work and assignments related to practical aspects, e.g. motor vehicle technology, garage practice, automobile electronics, advanced diagnostics, CAD/ vehicle design etc. Work placement is incorporated for those who progress to the honours degree.

Employment opportunities include supervisory, management and technical positions within sales and after-sales sectors of the motor, transport, and fleet industries. The course lends itself towards a career within vehicle distributors/ manufacturers along with vehicle assessing. Business start-up opportunities are also possible. Starting salary range €22,000 - €30,000 (guideline only).

Further Studies
For details, see www.cit.ie

Degree holders who achieve the specified level of academic performance are eligible to apply to
- → Bachelor of Science (Honours) in Transport Management.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Peter Sweetnam
AUTO-ELECTRICAL SPECIALIST

Following graduation, Peter set up his own business carrying out auto-electrical repairs and selling auto-electrical components. Peter has gained the respect and confidence of both his suppliers and customers and looks forward to a very rewarding career in the automotive service sector. Peter found that the degree course in CIT was invaluable in that it combined business skills with the theoretical and practical aspects of modern vehicle technology.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Engine Technology 1
- Auto-electrical Fundamentals
- Automotive Mathematics
- Garage Practice 1
- Introductory CAD

SEMESTER 2
- Vehicle Dynamics 1
- Automobile Electrical Systems
- Automotive Administration
- Garage Practice 2
- Automotive Science
- Mobile Plant Hydraulics

Engineering Master Chart

						MINIMUM ENTRY REQUIREMENTS				INITIAL AWARD & PROGRESSION OPPORTUNITIES AT CIT		
Course Code	Course Name	Page No.	Initial Award	Duration in years	Higher Certificate Step-off Available	No. of 1st Year Places	Round 1 Points 2009	Final Points 2009	No. of Subjects D3 (O/H)	No. of C3 (H) Grades	Maths Grade	English or Irish Grade	Bachelor Degree	Honours Bachelor Degree	Post Grad
CR500	Engineering (Common Entry) (Ref.2)	49	Honours Bachelor Degrees			20	310	310	6	2	D3 (H) or A2 (O) or (Ref.17)	D3 (O/H)		✔	✔
CR109	Structural Engineering	50	Honours Bachelor Degree	4		40	420	410	6	2	C3 (H) or (Ref.3)	D3 (O/H)		✔	✔
CR051	Civil Engineering	51	Bachelor Degree	3	✔ (Ref.1)	80	240	240	5	0	D3 (O/H)	D3 (O/H)	✔	✔ (Ref.15)	✔
CR570	Quantity Surveying	52	Honours Bachelor Degree	4		20	245	245	6	2	D3 (O/H)	D3 (O/H)		✔	
CR572	Construction Management	53	Honours Bachelor Degree	4		20	260	260	6	2	D3 (O/H)	D3 (O/H)		✔	
CR052	Construction	54	Bachelor Degrees	3	✔ (Ref.1)	40	200	200	5	0	D3 (O/H)	D3 (O/H)	✔ (Ref.4/5)	✔	
CK606	Architecture (CIT & UCC Joint Course) (Ref.6)	55	Honours Bachelor Degree	4		45	465	450	6	2	D3 (O/H)	D3 (O/H) in both Irish & English		✔	✔
CR560	Architectural Technology	56	Honours Bachelor Degree	4		36-40*	370	370	6	2	D3 (O/H)	D3 (O/H)		✔	
CR090	Architectural Technology	57	Bachelor Degree	3		36-40*	320	320	5	0	D3 (O/H)	D3 (O/H)	✔	✔	
CR565	Interior Architecture	58	Honours Bachelor Degree	4		40**	295	295	6	2	D3 (O/H)	D3 (O/H)		✔	
CR053	Interior Architecture	59	Bachelor Degree	3		40**	230	230	5	0	D3 (O/H)	D3 (O/H)	✔	✔	
CR105	Chemical & Biopharmaceutical Engineering	60	Honours Bachelor Degree	4		20	410	375	6	2	C3 (H) or (Ref.3)	D3 (O/H)		✔	✔
CR590	Electronic Systems Engineering	61	Honours Bachelor Degree	4		40****	290	290	6	2	D3 (O/H)	D3 (O/H)		✔	✔
CR061	Electronic Engineering	62	Bachelor Degree	3	✔ (Ref.1)	40****	215	200	5	0	D3 (O/H)	D3 (O/H)	✔	✔	✔
CR062	Electrical Engineering	64	Bachelor Degree	3	✔ (Ref.1)	40***	240	235	5	0	D3 (O/H)	D3 (O/H)	✔	✔	✔
CR580	Electrical Power Systems	63	Honours Bachelor Degree	4		40***	New Course	New Course	6	2	D3 (O/H)	D3 (O/H)		✔	✔
CR108	Mechanical Engineering	65	Honours Bachelor Degree	4		20	345	330	6	2	C3 (H) or (Ref.3)	D3 (O/H)		✔	✔
CR071	Mechanical Engineering/ Manufacturing Engineering	66	Bachelor Degrees	3	✔ (Ref.1)	80	320	320	5	0	D3 (O/H)	D3 (O/H)	✔ (Ref.7/8)	✔ (Ref.9/10/11/12)	✔
CR510	Sustainable Energy	67	Honours Bachelor Degree	4		40	385	380	6	2	D3 (O/H)	D3 (O/H)		✔	✔
CR520	Biomedical Engineering	68	Honours Bachelor Degree	4		10	350	350	6	2	C3 (H) or (Ref.3)	D3 (O/H)		✔	✔
CR075	Biomedical Engineering	69	Bachelor Degree	3	✔ (Ref.1)	20	300	260	5	0	D3 (O/H)	D3 (O/H)	✔	✔ (Ref.10/13)	✔
CR072	Building Services Engineering	70	Bachelor Degree	3	✔ (Ref.1)	20	200	200	5	0	D3 (O/H)	D3 (O/H)	✔	✔ (Ref.9/12/16)	
CR046	Transport Management & Technology	71	Bachelor Degree	3	✔ (Ref.1)	40	200	200	5	0	D3 (O/H)	D3 (O/H)	✔	✔ (Ref.14)	✔

Ref.1 Students who successfully complete Year 2 of the Bachelor Degree Programme and do not wish to progress to Year 3, will receive a Higher Certificate Qualification.
Ref.2 On successful completion of the first year students can choose to enter the second year programme of their choice from CR105 / CR108 / CR109 / CR520.
Ref.3 The requirement for HC3 Mathematics may also be satisfied by HC3 in Applied Mathematics plus HD2 in Mathematics OR by a specified grade in the CIT Special Engineering Entrance Examination in Mathematics.
Ref.4 Bachelor of Science in Construction Management
Ref.5 Bachelor of Science in Quantity Surveying
Ref.6 The entry requirements for CK606 Architecture are under review
Ref.7 Bachelor of Engineering in Mechanical Engineering
Ref.8 Bachelor of Engineering in Manufacturing Engineering
Ref.9 BSc (Honours) in Process Plant Technology
Ref.10 BSc (Honours) in Advanced Manufacturing Technology
Ref.11 BEng (Honours) in Mechanical Engineering
Ref.12 BEng (Honours) in Sustainable Energy
Ref.13 BEng (Honours) in Biomedical Engineering
Ref.14 BSc (Honours) in Transport Management
Ref.15 BEng (Honours) in Structural Engineering
Ref.16 BEng (Honours) in Building Energy Systems
Ref.17 The requirement for D3 (H) Mathematics may also be satisfied by A2(O) Mathematics OR by a specified grade in the CIT Special Engineering Entrance Examination in Mathematics.

* There will be 36-40 first year places available between CR090 Architectural Technology and CR560 Architectural Technology.
** There will be 40 first year places available between CR053 Interior Architecture and CR565 Interior Architecture.
*** There will be 40 first year places available between CR062 Electrical Engineering and CR580 Electrical Power Systems.
**** There will be 40 first year places available between CR061 Electronic Engineering and CR590 Electronic Systems Engineering.

NOTE: Round 1 Points 2010 can be found inside the back cover.
Number of First Year Places may change.


NATIONAL MARITIME COLLEGE OF IRELAND
COLÁISTE NÁISIÚNTA MARA NA hÉIREANN

national **maritime college of ireland**

CAO Courses

Level 7
CR 094 BSc in Nautical Science
CR 095 BEng in Marine & Plant Engineering
CR 805 BEng in Marine Electrotechnology

Follow on Honours Degree

Level 8
BSc (Honours) in Nautical Science

Other Programmes

Higher Certificate in Science in Nautical Studies
BBus in Supply Chain and Transport Management
Certificate in Seamanship
Courses for Professional Seafarers

National Maritime College of Ireland

The National Maritime College of Ireland (NMCI) is located in Ringaskiddy, Co. Cork and provides training and education for the Merchant Marine and the non-military needs of the Irish Naval Service (INS).

The NMCI provides education services of the highest quality. Specialist spaces including survival facilities, seamanship and shipwrights' workshops, fire fighting/damage control, jetty and lifeboat facilities and engine room are provided. The College also provides specialised simulation equipment in the areas of navigation, bridge training, communications, engineering-machinery operations, liquid cargo handling/damage control and vessel traffic systems. These facilities fully comply with the most up to date international standards and requirements. A multipurpose hall and sporting facilities are also included in the College.

Careers at Sea

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

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

This major industry is looking for capable and enthusiastic people who are ready for responsibility and hard work, and who enjoy using the latest technology. You will become a key member of a highly qualified team, whether on a giant supertanker, a container ship, a cross-channel ferry, a cruise liner, a specialised vessel servicing the offshore oil industry or on a cargo ship. Opportunities at a senior level in management, marine administration, and many other marine related areas are plentiful and experienced marine people are always sought for such positions.

The NMCI is the designated National Centre for education and training for careers in the maritime sector.

In addition to theoretical studies, students gain practical experience in safety, personal survival, first aid and fire-fighting. All students train with experienced seafarers at the NMCI and aboard merchant vessels worldwide. Whether the choice is Nautical Science or Marine Engineering, the student will experience the most modern resources in the world of seafarer training.

Student Life

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

General Facilities
There is a cafeteria where breakfast, lunch, and hot meals are served. NMCI has a hall for indoor sports and a gym equipped with weights equipment. An instructor is available to design fitness programmes. NMCI students registered with Cork Institute of Technology are entitled to avail of facilities and sports clubs on the main campus in Bishopstown. There are very active diving and sailing clubs which use the facilities at NMCI, as well as soccer and rugby clubs.

The Learning Resource Centre (LRC) is a focal point for students outside the classroom environment. Here students can use the open access computers, read at individual study spaces and browse in the library.

Currently, the library has a book stock of approximately 4,000 volumes and this collection will be developed on an ongoing basis with support from Cork Institute of Technology and the Irish Naval Service as well as donations of funds and materials from external organisations. The library has a maritime focus and subjects covered range from law, meteorology and marine engineering to seamanship and navigation.

As a constituent college of Cork Institute of Technology, NMCI students can request materials from other CIT Libraries and can access online databases subscribed to by CIT Library.

Student Accommodation

There is purpose built student accommodation available locally at Ferryview Park in Ringaskiddy which is approximately 10 minutes walk from NMCI. For further information please view www.ferryviewpark.com .

Irish Naval Service students have accommodation provided on the Naval Base in Haulbowline.

Nautical Science

Level 7 CAO Code	Admission Requirements	Enquiries
CR 094	Leaving Certificate with Grade D3 in five subjects at Ordinary or Higher level including Mathematics and either English or Irish.	Admissions Office, National Maritime College of Ireland, Ringaskiddy, Co. Cork. T: +353 (0) 21 497 0643 F: +353 (0) 21 497 0696 E: admissions@nmci.ie W: www.nmci.ie

AWARD

Bachelor of Science in Nautical Science

Applicants for this course must be capable of passing the approved medical fitness and eyesight tests as specified by the Maritime Safety Directorate of the Department of Transport and are requested to attend a career advisory session. Offer of a place on the course will be subject to passing the medical and eyesight tests at the time of offer.

hd
Progress to Honours Degree

CR 094	CAO Points 2009
Round 1 Points	325
Final Points	325

Full-time course duration
3 Years (6 Semesters) including sea service. The full programme is normally available only to Irish citizens and EU citizens who are ordinarily resident in Ireland unless prior support is obtained from a recognised/approved Shipping Company.

Helpful Leaving Certificate subjects
Mathematics, Science subjects, English, and Engineering.

Work Placement
Students spend the second year undertaking work placement on board ship, gaining fifteen months sea time. Location is world wide. Every effort is made to secure sea berths with shipping companies, but this cannot be guaranteed.

About Nautical Science
Nautical Science has three main elements:

- Navigation and ship handling, in other words, the conning and control of a ship.
- The safe operation of a ship, including the protection of life and the environment.
- Shipboard administration and the handling, loading and care of cargoes, which may be as diverse as petroleum products, general cargo, or thousands of new cars or passengers.

This course is designed for those who wish to pursue a career as a Deck Officer aboard ship. It provides a comprehensive education in navigation and other ship board activities.

Further Studies
For details, see www.cit.ie and www.nmci.ie

Degree holders who achieve the specified level of academic performance are eligible to apply for entry to the one year add-on
→ Bachelor of Science (Honours) in Nautical Science.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Sinéad Reen
MASTER MARINER

After Sinéad commenced the Nautical Studies course she worked on ships as a Navigating Officer to gain experience before returning to CIT to obtain qualifications as First Mate. Sinéad qualified as a Master Mariner when she successfully completed her Department of Transport professional examinations. She has the proud distinction of being the first woman to be issued with a Certificate of Competency as Master Mariner in Ireland.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Shipping Management
General Ship Knowledge
Applied Mathematics
Technological Mathematics (Nautical)
Introduction to Bridge Watchkeeping

SEMESTER 2
Seamanship
Electronic Navigation Systems
Basic Shipboard Safety
Introduction to Coastal Navigation
Applied Nautical Science
Navigation & Meteorology

Marine & Plant Engineering

Level 7 CAO Code	Admission Requirements	Enquiries
CR 095	Leaving Certificate with Grade D3 in five subjects at Ordinary or Higher level including Mathematics and either English or Irish.	Admissions Office, National Maritime College of Ireland, Ringaskiddy, Co. Cork. T: +353 (0) 21 497 0643 F: +353 (0) 21 497 0696 E: admissions@nmci.ie W: www.nmci.ie

AWARD

Bachelor of Engineering in Marine & Plant Engineering

Applicants for this course must be capable of passing the approved medical fitness and eyesight tests as specified by the Maritime Safety Directorate of the Department of Transport and are requested to attend a career advisory session. Offer of a place on the course will be subject to passing the medical and eyesight tests at the time of offer.

CR 095	CAO Points 2009
Round 1 Points	285
Final Points	260

Full-time course duration

3 Years (6 Semesters). The full programme is normally available only to Irish citizens and EU citizens who are ordinarily resident in Ireland unless prior support is obtained from a recognised/ approved Shipping Company.

Helpful Leaving Certificate subjects

Mathematics, Science subjects, Engineering, and English.

Work Placement

There is no formal work placement during the course. However, students undertake practical work experience at the NMCI. At present, the completion of cadetship takes place post degree for approximately one year. Changes will take place over the next 12 months to integrate sea time into this degree option. Every effort is made to secure sea berths with shipping companies, but this cannot be guaranteed.

About Marine Engineering

The function of the Marine Engineer is to operate and maintain the engines, boilers, generators and other systems of ships. Most of the mechanical equipment aboard ship is operated and maintained by Marine Engineers.

As well as lectures, training is provided in marine, electrical, welding and mechanical workshops, supplemented with practical work in the College engine room and simulation exercises in the machinery and cargo-handling simulation suites. On completion of the BEng degree, students will be placed with an international shipping company and undertake Basic Safety Training and Instruction prior to taking up seagoing duties. It should be noted that while every endeavour will be made to secure suitable sea training placement, this is outside the control of CIT/NMCI and the college cannot accept responsibility for difficulties in securing such placement.

Further Studies

For details, see www.nmci.ie

There are opportunities for further study in order that cadets will progress from the Officer of the Watch Level on to the Second Engineer Officer Certificate of Competency and in due course to the Chief Engineer Officer Certificate of Competency with a combination of Sea-Service, further study and examinations.

Progress is being made towards the provision at NMCI of further study in Marine Engineering at Level 8. This will be advised via www.nmci.ie and www.cit.ie.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

For details, see www.cit.ie and www.nmci.ie

Graduate **Profile**

Eoin O'Sullivan
SENIOR MARINE ENGINEER

Eoin graduated in Marine & Plant Engineering. He is currently serving as a Second Engineer with Shell on a liquid natural gas carrier. Eoin obtained the Chief Engineering Certificate of Competency. Eoin found the College facilities excellent. "Most of the lecturers have spent time at sea and use their experience to teach their skills. The standard of education is very high."

First Year Modules

SEMESTER 1

- Creativity, Innovation & Teamwork
- Mechanics 1
- Technical Drawing 1
- Physics for Marine Engineers
- Marine Engineering Practice & Legislation 1
- Technological Mathematics 1

SEMESTER 2

- Mechanics 2
- Technical Drawing 2
- Mechanical Workshop Theory 1
- Applied Thermodynamics 1
- Electrical & Electronics Principles 1
- Technological Mathematics 2

Marine Electrotechnology

Level 7 CAO Code	Admission Requirements	Enquiries
CR 805	Leaving Certificate with Grade D3 in five subjects at Ordinary or Higher level including Mathematics and either English or Irish.	Admissions Office, National Maritime College of Ireland, Ringaskiddy, Co. Cork. T: +353 (0) 21 497 0643 F: +353 (0) 21 497 0696 E: admissions@nmci.ie W: www.nmci.ie

AWARD

Bachelor of Engineering in Marine Electrotechnology

Applicants for this course must be capable of passing the approved medical fitness and eyesight tests as specified by the Maritime Safety Directorate of the Department of Transport and are requested to attend a career advisory session. Offer of a place on the course will be subject to passing the medical and eyesight tests at the time of offer.

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Progress to Honours Degree

CR 805 CAO Points
New Course Entry 2011

Full-time course duration
3 Years (6 Semesters) taught plus 1 year work placement. The full programme is normally available only to Irish citizens and EU citizens who are ordinarily resident in Ireland unless prior support is obtained from a recognised/approved Shipping Company.

Helpful Leaving Certificate subjects
Mathematics, Science Subjects, and Engineering.

Work Placement
There is formal work placement during the course; students undertake practical work experience on a relevant vessel between the 2nd and 3rd taught years of the programme. During this 'sea placement' students are expected to gain a minimum of 9 months work experience. Every effort is made to secure sea berths with shipping companies, but this cannot be guaranteed by the NMCI/CIT.

About Marine Electrotechnology
An Electro Technical Officer (ETO) operates, maintains and calibrates all electrical, electronic and control equipment. The ETO's role is not restricted to the engine room and may also work on complex systems located throughout any vessel.

The course shares its first two semesters with the BEng in Marine and Plant Engineering. Having completed Year 1, Marine Electrotechnology students will begin specialist electrical and electronic training. As well as lectures, training is provided in a variety of workshops and laboratories. This practical work is given to enhance the students learning experience. Practical knowledge of fundamental theories is gained in electrical, electronic, communications and control laboratories. A broad understanding of ships and ships' systems is delivered in electrical workshops and in the college's own engine room. Students will undertake basic safety training and instruction prior to taking up seagoing work placement with a shipping company.

Electro Technical Officers of a high standard are particularly sought after within the cruise line industry. There are also a number of opportunities ashore in a wide variety of fields including marine electronic maintenance and aviation instrumentation maintenance industries. Starting Salary after graduation (general guideline only): €25,000 - €35,000.

Further Studies
For details, see www.nmci.ie

There are opportunities for further study in related fields at the honours degree level. Graduates will be well placed to pursue further studies in either electrical or electronic engineering.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Mechanics 1
- Technical Drawing 1
- Physics for Marine Engineers
- Marine Engineering Practice & Legislation 1
- Technological Mathematics 1

SEMESTER 2
- Mechanics 2
- Technical Drawing 2
- Mechanical Workshop Theory 1
- Applied Thermodynamics 1
- Electrical & Electronics Principles 1
- Technological Mathematics 2

Nautical Studies

Level 6 Entry	Admission Requirements	Enquiries
Entry to this course is by direct application to the Admissions Office, National Maritime College of Ireland. Please note that application is NOT through the Central Applications Office (CAO).	Applicants should be at least 17 years of age. Applicants are normally expected to have reached the Leaving Certificate level of the Department of Education or equivalent standard. Please see more detailed information below.	Admissions Office, National Maritime College of Ireland, Ringaskiddy, Co. Cork. T: +353 (0) 21 497 0643 F: +353 (0) 21 497 0696 E: admissions@nmci.ie W: www.nmci.ie

AWARD
Higher Certificate in Science in Nautical Studies

Full-time course duration
3 Years

Helpful Leaving Certificate subjects
Mathematics, Science subjects, and English.

Admission Requirements
At present, entry to this course is by direct application to the NMCI and not through the CAO.

Applicants should be at least 17 years of age. The full programme is normally available only to Irish citizens and EU citizens who are ordinarily resident in Ireland unless prior support is obtained from a recognised/approved Shipping Company. Applicants are normally expected to have reached the Leaving Certificate level of the Department of Education or equivalent standard. Applicants with at least 36 months approved seatime may apply for recognition of prior learning. Where work based learning is accepted the applicant may only be required to complete Semesters 4 and 6.

N.B. Applicants for this course may be asked to attend a college interview.
All applicants must pass the Seafarer Medical and eyesight ests as specified by the Maritime Safety Directorate of the Department of Transport.

Work Placement
The Higher Certificate programme includes in-service training or work placement onboard ship at sea. During this work placement the Learner works alongside the ship's crew in the operation of the vessel and alongside the ship's officers. All in-service training is supported by work placement modules which must be completed by the Learner.

Every effort is made to secure sea berths with shipping companies, but this cannot be guaranteed.

About Nautical Studies
This course provides an opportunity to train for a career as a Seaman or as a Deck Officer in the Merchant Navy. Applicants who train as a Seaman will exit the course after approximately 16 months having attained the Certificate in Seamanship, a minor award associated with the Higher Certificate. They will then be able to obtain employment at sea as a Category 2 Seaman.

Successful learners completing the full course will obtain a Higher Certificate in Science in Nautical Studies – Level 6. On completion of a Department of Transport oral examination they will be issued with a Certificate of Competency as Officer of the Watch on a vessel of more than 500 gross tonnage. This qualifies the holder to serve as a junior Deck Officer on board a merchant vessel trading worldwide.

Further Studies
For details, see www.nmci.ie

Holders of the OOW certificate may proceed to:
1. Chief Mate/Master on vessels of 500 to 3000 gross tonnage
2. Chief Mate/Master on vessels of greater than 3000 gross tonnage

The most appropriate avenue is one of personal preference. However, option 2 gives the widest range of job opportunities and the possibility of a shore based job.

Related Courses
It is anticipated that in the near future a link will be available to the BSc in Nautical Science Level 7 degree programme.

Graduate **Profile**

Tony Mulcahy
CORK HARBOUR PILOT

'Great course, providing excellent career opportunities.' Tony qualified as Officer of the Watch and worked on Bulk Carriers with Arklow Shipping for a number of years. He returned to CIT to complete qualifications as Chief Officer. He then qualified as Master Mariner and has served as Chief Officer and Master on board a large Car Carrier with United European Car Carriers. Tony is now a Harbour Pilot in the Port of Cork.

First Year Modules

SEMESTER 1
- Seafarer Basic Safety Training
- Introduction to Seafaring
- Bridge Watchkeeping – (work placement)
- Shipboard Operations – (work placement)

SEMESTER 2
- Creativity, Innovation & Teamwork
- Shipboard Support Units
- Navigation & Meteorology
- Introduction to Coastal Navigation
- General Ship Knowledge

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Supply Chain and Transport Management

Level 7 Course Code	Admission Requirements	Enquiries
Entry to this course is by direct application to the Admissions Office, National Maritime College of Ireland. Please note that application is NOT through the Central Applications Office (CAO).	This qualification is a one year step up degree for participants holding the Chartered Institute of Logistics and Transport (CILT) or IIPMM (Procurement and Supply Chain Management) Diploma or Graduateship in Supply Chain Management or an equivalent Level 6 qualification in a relevant discipline.	Admissions Office, National Maritime College of Ireland, Ringaskiddy, Co. Cork. T: +353 (0) 21 497 0643 F: +353 (0) 21 497 0696 E: admissions@nmci.ie Jane O'Keeffe E: jokeeffe@nmci.ie W: www.nmci.ie

AWARD

Bachelor of Business in Supply Chain and Transport Management

Full-time course duration
1 Year, 2 Semesters on a concentrated evening/weekend basis

About Supply Chain, Logistics and Transport Management
Logistics and Transport Management is that part of the supply chain which plans, implements and controls the efficient, effective forward and reverse flow and storage of goods, services and related information between the point of origin and the point of consumption in order to meet customer and legal requirements while simultaneously improving performance, costs and flexibility. The concept has been defined in simpler terms and is often captured with five words: Plan, Source, Make, Deliver, Return.

Of course, the elements of Supply Chain Management have always existed in business. What changed was the willingness of businesses to recognise the inter-relationship of the various sub functions, and to pursue the benefits generated through coordination and integration, both from a strategy/planning perspective and operationally.

Supply Chain Management has matured from a compelling method of deriving competitive advantage, to now being a baseline expectation for any organisation, both in the private and public sector, wishing to compete in the 21st Century, and with that the professions and occupations comprising Supply Chain Management are now firmly entrenched in the armoury of essential business executives.

This course is designed for those who have some experience in the Logistics and Supply Chain Management and who wish to further their career prospects.

Benefits
You will be one of the elite few
- → who will possess a degree in Supply Chain and Transport Management
- → who, as a result, will secure challenging, better paid and more fulfilling positions in Supply Chain.
- → who will be empowered with the knowledge and skills to implement the latest best practices in Supply Chain management in your organisation.

As more and more responsibility is placed on the Supply Chain Management and Logistics functions, the need has intensified for its practitioners to be highly skilled in the various elements of Supply Chain Management and to be completely up to date with best practices in the industry both locally and globally. Logisticians must take their place alongside engineers and accountants as proficient and exceptionally well-trained professionals.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Ian O'Reilly
SITE LEAN SIX SIGMA LEADER

This course offered me the chance to gain a degree in my field. The course was structured, relevant and motivating. The lecturers all had real life experience from industry, which they readily imparted. The cohorts of students from the different disciplines brought great life to the classroom environment. The modules on Quality and Lean Operations and Managing Performance Measurement were particularly enlightening. I have recently been promoted to the position of Site Lean Six Sigma Leader. I have no doubt that this degree was a key factor in helping me to progress my career."

Modules

SEMESTER 1
- Quality and Lean Operations
- Managing Performance Measurement
- Warehousing and Inventory Control in the Supply Chain
- Business and Supply Chain Strategy
- Transport and Distribution in the Supply Chain
- Supply Chain Management Accounting and Managerial Finance

SEMESTER 2
- Supply Chain Purchasing
- Organisational Structure and Human Resource Development
- Supply Chain Leadership and Communications
- Supply Chain IT and E-Commerce
- International Trade and Customs Law
- Advanced Operations Management

Certificate in Seamanship

This award is associated with the Higher Certificate in Science in Nautical Studies.

This Level 6 course provides an opportunity to train for a career as a Seaman in the commercial shipping sector. Because of the significant element of work placement required on this course applicants can expect a course duration of approximately 16 months. Holders of the Certificate in Seamanship will have met the Department of Transport requirements for Efficient Deck Hand and Proficiency in Survival Craft certificates which will enable them to obtain employment at sea as a Category 1/2 Seaman. Holders of the Certificate in Seamanship can progress to the Higher Certificate in Nautical Studies and to qualification as a Junior Deck Officer with further professional service and additional study.

Admission Requirements
Applicants should be at least 17 years of age and are expected to have reached the Leaving Certificate level of the Department of Education, or they may apply for recognition of prior learning including appropriate seagoing experience. Applicants for this course may be asked to attend a college interview. All applicants must meet the medical and eyesight standards as specified by the Maritime Safety Directorate of the Department of Transport (arrangements for which will be notified to the applicants).

Contact
Kim Mulcahy,
National Maritime College of Ireland,
Ringaskiddy,
Co. Cork,
Ireland.
T: +353 (0) 21 497 0636
E: kim.mulcahy@nmci.ie
W: www.nmci.ie

Courses for Professional Seafarers Certificates of Competency (Post Degree)

Certificates of Competency are required under the Merchant Shipping Acts for personnel in positions of responsibility on board ships. The National Maritime College of Ireland offers preparatory courses for the mandatory certification examinations which are conducted by CIT on behalf of the Department of Transport. Courses for senior or post degree personnel and other short courses are available for those who require to progress from the Officer of the Watch level to the Chief Engineer or Master level of Certificate of Competency.

Qualifying Sea Service – Deck
The qualifying sea service required to enable a candidate to enter for a Certificate of Competency examination is set out in the 'Directions as to the Examination of Deck Officers under the Merchant Shipping Acts'.

Qualifying Sea Service - Engineering
The qualifying sea service required to enable a candidate to enter for a Certificate of Competency (Engineering) examination is set out in the "Directions as to the Examination of Engineer Officers under the Merchant Shipping Acts". These directions are available from:
Government Publications Sales Office,
Molesworth Street, Dublin 2
W: www.transport.gov.ie

Candidates are advised to consult these directions. Eligibility for Certificate of Competency examinations is determined by The Examiner (of Masters and Mates or Engineers as appropriate),
Marine Surveyors Office,
Department of Transport,
Leeson Lane, Dublin 2.
T: +353 1 678 3400

Certificates of Competency (Deck)
These are qualifications of navigational watchkeeping which are required in most classes of merchant ship. They fall into three main categories:
- Officer of the Watch (Navigation)
- Chief Mate
- Master Deck.

Certificates of Competency (Engineering)
These are qualifications of engineering watchkeeping which are required in most classes of merchant ship. They fall into three main categories:
- Officer of the Watch (Engineering)
- Second Engineer Officer Marine Engineering
- Chief Engineer Officer Marine Engineering.

NMCI Master Chart

Course Code	Course Name	Page No.	Initial Award	Duration in years	Higher Certificate Step-off Available	No. of 1st Year Places	Round 1 Points 2009	Final Points 2009	MINIMUM ENTRY REQUIREMENTS: No. of Subjects D3 (O/H)	No. of C3 (H) Grades	Maths Grade	English or Irish Grade	Early Assessment Procedures	INITIAL AWARD & PROGRESSION OPPORTUNITIES AT CIT: Bachelor Degree	Honours Bachelor Degree	Post Grad
CR094	Nautical Science	76	Bachelor Degree	3		36	325	325	5	0	D3 (O/H)	D3 (O/H)	✔ (Ref.1)	✔	✔	✔ (Ref.2)
CR095	Marine & Plant Engineering	77	Bachelor Degree	3		40	285	260	5	0	D3 (O/H)	D3 (O/H)	✔ (Ref.1)	✔		✔ (Ref.3)
CR805	Marine Electrotechnology	78	Bachelor Degree	3		20	New Course	New Course	5	0	D3 (O/H)	D3 (O/H)	✔ (Ref.1)	✔	✔	

Ref.1 Applicants for this course must be capable of passing the approved Medical Fitness and Eyesight tests and are requested to attend a Career Advisory Session.
Offer of a place on the course will be subject to passing the medical & eyesight tests at the time of offer.
Ref.2 Further study at NMCI to Ship's Master.
Ref.3 Further study at NMCI to Chief Engineer.
NOTE: Round 1 Points 2010 can be found inside back cover.
Number of First Year Places may change.

faculty of **science & computing** at a glance

CAO Courses

Level 8
CR 106 BSc (Honours) in Software Development
CR 116 BSc (Honours) in Software Development and Computer Networking
CR 305 Science (Honours Common Entry)
CR 310 BSc (Honours) in IT Management
CR 312 BSc (Honours) in Web Development
CR 320 BSc (Honours) in Biomedical Science (Joint CIT / UCC Degree)
CR 325 BSc (Honours) in Pharmaceutical Biotechnology
CR 330 BSc (Honours) in Herbal Science
CR 333 BSc (Honours) in Nutrition and Health Science
CR 340 BSc (Honours) in Analytical Chemistry with Quality Assurance
CR 360 BSc (Honours) in Instrument Engineering
CR 365 BSc (Honours) in Environmental Science & Sustainable Technology

Level 7
CR 001 BSc in Applied Physics & Instrumentation
CR 006 Applied Biosciences
Degree Award options:
BSc in Food and Health Science or
BSc in Applied Biosciences and Biotechnology
CR 007 BSc in Analytical & Pharmaceutical Chemistry
CR 016 BSc in Computing
CR 300 Science (Common Entry)

Level 6
CR 888 Higher Certificate in Information Technology Support

Follow on Degrees

Level 8
BSc (Honours) in Applied Physics & Instrumentation
BSc (Honours) in Applied Biosciences

Level 7
BSc in Information Technology Support

Postgraduate Programmes

MSc (by Research)
PhD (by Research)
Master of Science in Biomedical Science (Taught)
Master of Science in Software Development
Postgraduate Diploma in Computing in Education
MSc in Computing in Education
MSc in Networking and Security

Science (Common Entry) > Honours

Level 8 CAO Code	Admission Requirements	Enquiries
CR 305	At least two Leaving Certificate subjects at minimum Grade C3 (Higher Level) together with a further four subjects at Grade D3 (Ordinary or Higher Level). The six subjects must include Mathematics and either Irish or English.	Dr John Wood Department of Chemistry T: 021 432 6214 E: john.wood@cit.ie

CR 305 **CAO Points 2009**
Round 1 Points 295
Final Points 295

Helpful Leaving Certificate subjects
Mathematics, Physics, Chemistry, and Biology.

About this Course
- The Bachelor of Science (Hons) (Common Entry) is designed for applicants who wish to enter Science in CIT but are undecided about or wish to postpone selecting a designated Chemistry, Biology or Physics honours degree until after they have had an opportunity to experience all three disciplines.
- **Common Semester 1:** The common Semester 1 programme includes modules in physics, chemistry, biology, mathematics and computing so that students will have a good idea of what they want to do at the conclusion of Semester 1.
- Students make their choice about which course to continue with at the end of Semester 1, and may choose from any one of the Honours Science degrees listed below.

Science at CIT
Science is an excellent career choice for those interested in understanding how the chemicals, foods and other products that we encounter in everyday life are designed and produced. From cures for life threatening illnesses, to environmental protection, to the design of new foods and space science, careers in science are varied and interesting. Many of CIT's science graduates work in both local and international firms, as well as starting and running their own businesses successfully.

CIT science graduates are highly sought after by industry for their ability to make a strong contribution in the workplace and for their strong practical work ethic. Choosing a course in science provides students with an excellent basis upon which to develop exciting careers subsequently.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
General & Inorganic Chemistry
Introduction to Physics
Technological Mathematics 1
Practical Computer Technology
Biomolecules and Cells

SEMESTER 2
Semester 2 modules are determined by the designated degree course selected following completion of Semester 1.

Courses for Progression:
- CR360 BSc (Hons) in Instrument Engineering
- CR365 BSc (Hons) in Environmental Science and Sustainable Technology
- CR340 BSc (Hons) in Analytical Chemistry with Quality Assurance
- CR325 BSc (Hons) in Pharmaceutical Biotechnology
- CR333 BSc (Hons) in Nutrition and Health Science

All students will be offered the place of their choice on one of the programmes above.

Students also have the option of applying for Level 7 science programmes:
- CR001 BSc in Applied Physics and Instrumentation
- CR006 Applied Biosciences progressing to BSc in Applied Bioscience and Biotechnology or BSc in Food and Health Science
- CR007 BSc in Analytical and Pharmaceutical Chemistry

Applicants are advised to visit each of the course sites for detailed descriptions at www.cit.ie

Science (Common Entry)

Level 7 CAO Code	Admission Requirements	Enquiries
CR 300	At least five Leaving Certificate subjects at minimum Grade D3 (Ordinary or Higher Level), including Mathematics and either Irish or English.	Dr John Wood Department of Chemistry T: 021 432 6214 E: john.wood@cit.ie

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Progress to Honours Degree

CR 300 **CAO Points 2009**

Round 1 Points	285
Final Points	210

Helpful Leaving Certificate subjects
Mathematics, Physics, Chemistry, and Biology.

About this Course
- The Level 7 Science Common Entry programme is designed for applicants who wish to enter Science in CIT but are undecided about or wish to postpone selecting a designated Chemistry, Biology or Physics degree until after they have had an opportunity to experience all three disciplines.
- **Common Semester 1:** The common Semester 1 programme includes modules in physics, chemistry, biology, mathematics and computing so that students will have a good idea of what they want to do at the conclusion of Semester 1.
- Students make their choice about which course to continue with at the end of Semester 1 and may choose from any one of the Science degrees listed below.

Science at CIT
Science is an excellent career choice for those interested in understanding how the chemicals, foods and other products that we encounter in everyday life are designed and produced. From cures for life threatening illnesses, to environmental protection, to the design of new foods and space science, careers in science are varied and interesting. Many of CIT's science graduates work in both local and international firms, as well as starting and running their own businesses successfully.

CIT science graduates are highly sought after by industry for their ability to make a strong contribution in the workplace and for their strong practical work ethic. Choosing a course in science provides students with an excellent basis upon which to develop exciting careers subsequently.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
General & Inorganic Chemistry
Introduction to Physics
Technological Mathematics 1
Practical Computer Technology
Biomolecules and Cells

SEMESTER 2
Semester 2 modules are determined by the designated degree course selected following completion of Semester 1.

Courses for Progression:
- CR001 BSc in Applied Physics and Instrumentation
- CR007 BSc in Analytical and Pharmaceutical Chemistry
- CR006 Applied Biosciences progressing to BSc in Applied Bioscience and Biotechnology or BSc in Food and Health Science

All students will be offered the place of their choice on one of the programmes above.

On successful completion of their chosen BSc., suitably qualified graduates may progress to the associated BSc (Honours) degree in CIT subject to availability of places.

Applicants are advised to visit each of the course sites for detailed descriptions at www.cit.ie

Instrument Engineering (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 360	At least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at Grade D3 minimum (Ordinary or Higher Level). The six subjects must include Mathematics and either English or Irish.	Dr Liam McDonnell Department of Applied Physics and Instrumentation T: 021 432 6442 E: liam.mcdonnell@cit.ie

AWARD

Bachelor of Science (Honours) in Instrument Engineering

CR 360	CAO Points 2009
Round 1 Points	325
Final Points	310

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Physics, Engineering, Technology, Chemistry, and Mathematics.

Work Placement

There is a mandatory eight week placement during the second semester in third year.

About Instrument Engineering

Instrument Engineering is the specialisation that is centred on the principles of operation and applications of the diverse range of measurement and control instrumentation used to automate machinery and processes throughout industry.

This course provides a unique opportunity to obtain an internationally recognised Level 8 qualification with significant career opportunities. The course is presented through a mix of formal lectures and practical sessions. Modules are examined either by continuous assessment of coursework or by a mix of continuous assessment and an end of semester examination.

Graduates typically work as Instrument Engineers or Automation Engineers within chemical, pharmaceutical, oil/gas, food, beverage and water treatment companies that use instrumentation to improve productivity, safety, reliability, quality, etc. Significant employment opportunities exist for graduates in the many companies that design, manufacture and supply instrumentation to the above industries as well as with the engineering consultancies and systems integrators who provide such industries with turn-key solutions to their manufacturing challenges. Starting salary (general guideline only): €28,000 - €35,000; typically rising after 5 years to €50,000 - €55,000.

Further Studies

Graduates are eligible to apply for a postgraduate degree by research at CIT at Masters (MSc) or Doctoral (PhD) levels.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

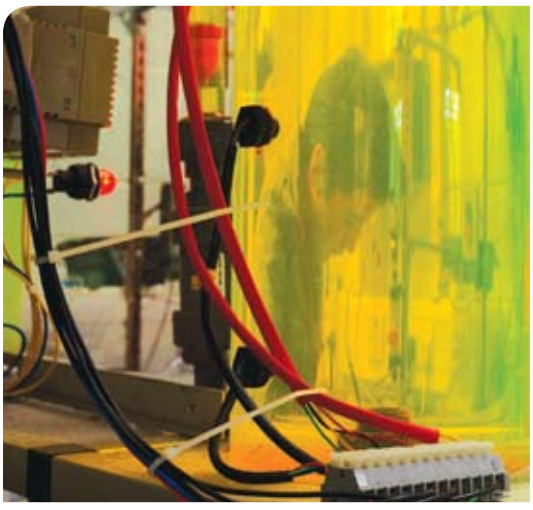
First Year Modules

SEMESTER 1

- Creativity, Innovation & Teamwork
- General and Inorganic Chemistry
- Introduction to Physics
- Practical Computer Technology 1
- Instrument Measurement Principles
- Discrete Mathematics 1

SEMESTER 2

- Physics
- Calculus 1 Computing
- Instrument Calibration
- Design Skills and Technology
- Sensors and Systems
- *Electives (Choose 1)*
- *Physical and Organic Chemistry*
- *Physics of Forensics*
- *Introduction to Astronomy*
- *Formula 1 Science & Technology*
- *Physics of Sport*
- *Sport Science Technology*
- *Free Choice Module*



Environmental Science & Sustainable Technology (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 365	At least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at Grade D3 minimum (Ordinary or Higher Level). The six subjects must include Mathematics and either English or Irish.	Dr Liam McDonnell Department of Applied Physics & Instrumentation T: 021 432 6442 E: liam.mcdonnell @cit.ie

AWARD

Bachelor of Science (Honours) in Environmental Science & Sustainable Technology

CR 365 CAO Points
New Course Entry 2010

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Physics, Chemistry, Technology, Geography, Mathematics, and Biology.

Work Placement
There is a twelve week work placement during the second semester in third year. The student will be placed in an industry, organisation or research group where environmental science and sustainable technology are of importance. It may be possible for the placement to be in an international location.

About Environmental Science and Sustainable Technology
The protection of the environment and the promotion of sustainable development are central to the national and global economies. As the world's industries and markets become greener, the need for scientists who specialise in environmental science and sustainable technology will continue to grow. The aim of this course is to produce graduate scientists for a range of interesting careers within the smart green economy.

This programme provides a comprehensive foundation in the physical sciences of physics and chemistry with other modules in mathematics, instrumentation, computer technology and biology. There is a continual green ethos throughout the programme to stimulate graduates to become champions of sustainability by the provision of green technical and green managerial modules. There are modules covering recycling, reduction, reuse, water quality and air quality to ensure that graduates are fully up to date with the legal, economic and technical aspects of these key topics. In addition to the scientific and technical modules there are a number of modules to develop competences in report writing, presentation skills, communication skills, research and team work. Furthermore, there is an emphasis on enquiry and project-based learning throughout the programme to encourage enterprise, independent learning and innovation. In the final year of the programme there is a major project in the area of environmental science and sustainable technology.

Despite the global recession, green employment opportunities and the range of green careers have continued to grow. Being multi-skilled and interdisciplinary, graduates of this programme can expect to find excellent employment opportunities, nationally and internationally, in areas such as environmental management, environmental consulting, green auditing, energy auditing, environmental monitoring, waste and emissions reduction, energy generation using sustainable technologies, carbon footprint reduction, research & development and business development.

Further Studies
Suitable qualified graduates are eligible to apply for a postgraduate degree by research at CIT at Masters (MSc) or Doctoral (PhD) levels.

First Year Modules http://modules.cit.ie

SEMESTER 1
- Introduction to Environmental Science
- Creativity, Innovation & Teamwork
- Introduction to Physics
- Practical Computer Technology 1
- General and Inorganic Chemistry
- Discrete Mathematics 1

SEMESTER 2
- Introduction to Sustainable Technology
- Measurement and Calibration
- Physics
- Physics and Organic Chemistry
- *Electives (Choose 1)*
- *Climate Change and Energy*
- *Wind Energy*
- *Sustainability and Transport*
- *Free Choice*

Applied Physics and Instrumentation

Level 7 CAO Code	Admission Requirements	Enquiries
CR 001	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Ger Croke Department of Applied Physics and Instrumentation T: 021 432 6214 E: ger.croke@cit.ie

AWARD

Bachelor of Science in Applied Physics and Instrumentation

hd
Progress to Honours Degree

CR 001

	CAO Points 2009
Round 1 Points	220
Final Points	220

Full-time course duration

3 Years (6 Semesters)

Higher Certificate Option

Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Science in Applied Physics and Instrumentation.

Helpful Leaving Certificate subjects

Physics, Engineering, Technology, Chemistry, and Mathematics.

Work Placement

There is a mandatory eight week placement during the second semester in third year.

About Applied Physics and Instrumentation

As the science which deals with fundamental physical concepts, such as energy, force and time, physics is at the heart of everything in the natural world such as gravity, heat and light.

Applied Physics is the term used when we apply these concepts, and thus applied physics is at the heart of everything in the man-made world.

Instrumentation is the specific technology that allows us to measure and control a wide range of physical and other quantities that are essential to life today.

This course brings the **applications of physics** and the **technology of instrumentation** together in order to provide specialists for many sectors of Irish industry and society.

Graduates develop the creative skills necessary for achieving innovative realisable solutions to complex industrial problems. Such solutions very often involve the design, development and use of sophisticated instrumentation to carry out the measurements associated with industrial production, quality control and research and development (R&D). The course therefore has a strong engineering orientation with many graduates establishing careers as **Instrument Engineers** and **Automation Engineers** by continuing their studies to honours degree level. This education broadens the perspective of the student and helps to develop their design capabilities.

Typically, 95% of graduates find employment in Ireland across various sectors of industry: computing (24%), electronics (18%), engineering services (31%) and the chemical industry (8%). Starting salary (general guideline only): €28,000 - €35,000 for BSc graduates typically rising after 5 years to €50,000 - €55,000.

Further Studies

For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to Year 4 (final) of

- Bachelor of Science (Honours) in Applied Physics and Instrumentation or
- Bachelor of Science (Honours) in Instrument Engineering.

Teaching: The Bachelor of Science (Honours) in Applied Physics and Instrumentation is recognised by the Teaching Council for the teaching of Physics and Applied Mathematics in second level schools.
As with other degrees, a training and teaching qualification such as a HDip is also required.

Graduate **Profile**

Willie Power
DIRECTOR/TEAM LEADER

"With Pfizer Ireland Pharmaceuticals, I led its process control team. The projects were centred on the upgrade of complex manufacturing control systems. These systems coordinate the simultaneous production of batches of active pharmaceutical ingredient products. I now work as Director/Team Leader of Information Technology (IT) which covers responsibility for manufacturing IT support applications as well as Automation."

First Year Modules http://modules.cit.ie

SEMESTER 1

- Creativity, Innovation & Teamwork
- General and Inorganic Chemistry
- Introduction to Physics
- Practical Computer Technology 1
- Instrument Measurement Principles
- Technological Mathematics 1

SEMESTER 2

- Introduction to Sensors & Systems
- Technological Mathematics 2
- Physics
- Instrument Calibration
- Design Skills & Technology
- *Electives (Choose 1)*
- *Physical and Organic Chemistry*
- *Physics of Forensics*
- *Introduction to Astronomy*
- *Formula 1 Science & Technology*
- *Physics of Sport*
- *Sport Science Technology*
- *Free Choice Module*

Biomedical Science (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 320	Leaving Certificate in six subjects, including Mathematics, English and Irish, and including at least two C3s at Higher Level, one of which must be a Laboratory Science subject (from Chemistry, Physics, Biology or Physics and Chemistry (joint)).	Dr Lesley Cotter Department of Biological Sciences T: 021 432 6829 E: lesley.cotter@cit.ie

AWARD
Bachelor of Science (Honours) in Biomedical Science

This honours degree course is offered jointly by Cork Institute of Technology and University College Cork.
NB: Agricultural Science is accepted as a subject and attracts CAO points, but does not meet the requirement for the Laboratory Science Higher C3 subject.

CR 320	CAO Points 2009
Round 1 Points	410
Final Points	410

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Chemistry, Biology, Physics, Mathematics and English.

Work Placement
This work placement (clinical placement) is offered postgraduately and is optional. However, in order for graduates to be eligible to work as Medical Scientists in hospitals in Ireland, they must have completed a clinical placement training which necessitates a full academic year.

About Biomedical Science
Biomedical Science is the term for the investigations carried out by Biomedical Scientists on samples of tissue and body fluids to diagnose disease and monitor the treatment of patients. Biomedical scientists work in partnership with doctors and other healthcare professionals to perform many different roles in medical laboratories.

Biomedical Science is a continually changing dynamic profession and involves study of the diverse areas of medical science including Biochemistry, Microbiology, Cellular Pathology, Haematology and Transfusion Science. It provides training in 'state of the art' technologies to facilitate investigation of disease and medical research.

Biomedical Science prepares the student for a career in laboratory medicine and related areas in the health-care industry and biopharmaceutical industry. Biomedical Science graduates work as Medical Scientists in hospitals, and in research, the Biopharmaceutical and biotechnology industries, public health and sales and marketing of medical products.

Accreditation
This course is fully accredited by Academy of Medical Laboratory Sciences (AMLS).

Further Studies
For details, see www.cit.ie

The CIT/UCC joint BSc (Honours) Degree in Biomedical Science is one of only three honours degrees in the Republic of Ireland which are recognised by the Academy of Medical Laboratory Sciences (professional body) as enabling graduates to practise in hospitals in the State. However, this BSc (Honours) must be accompanied by clinical placement training. Graduates of the BSc (Honours) will be offered the opportunity to complete this placement in a designated hospital laboratory.

→ MSc in Biomedical Science (Taught Masters Programme)

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- General and Inorganic Chemistry
- Introduction to Biomedical Science I
- Introductory Cell Biology
- Physics for Biomedical, Food, Nutritional and Environmental Sciences

SEMESTER 2
- Introduction to Health Science
- Introduction to Human Biology
- Introduction to Biomedical Science II
- Introductory Mathematics and Applied Mathematics
- Physical and Organic Chemistry

Pharmaceutical Biotechnology (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 325	At least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at Grade D3 minimum (Ordinary or Higher Level). The six subjects must include Mathematics and English or Irish.	Dr Jim O'Mahony Department of Biological Sciences T: 021 432 6833 E: jim.omahony@cit.ie

AWARD

Bachelor of Science (Honours) in Pharmaceutical Biotechnology

CR 325	CAO Points 2009
Round 1 Points	310
Final Points	300

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Biology and Chemistry.

Work Placement

Work placement is a mandatory part of this course. In Year 3, students will spend a minimum of 16 weeks in a local, national or internationally approved work environment.

About Pharmaceutical Biotechnology

This course provides the student with the core knowledge and practical skills to graduate as a biotechnologist, with particular emphasis on modules pertaining to pharmaceutical biotechnology.

Specifically the course will allow you to:

- Grow and observe biological cells under different conditions.
- Extract, purify and characterise bio-molecules including DNA and protein.
- Produce and analyse a variety of bio-active substances in cells.
- Attain the necessary knowledge and practical skills to graduate as a biotechnologist.

The course content is specifically designed to meet the needs of the many relevant employers both nationally and internationally, and contains topical, cutting edge, industry specific material. The lectures are supplemented with in depth analysis of relevant case studies, projects, assignments, interactive videos, web tools and site visits. At least 50% of the contact time is spent in the laboratory gaining practical experience.

Many of the world's top Biotechnology companies have a strong presence in Ireland. In general, the industry is moving towards a more "bio–based" approach to pharmaceutical manufacture. Consequently, there is a greater need to produce highly trained graduates who possess Pharmaceutical Biotechnology related skills. This course is designed to specifically meet this need. Starting salary (general guideline only): €40,000.

Further Studies

For details, see www.cit.ie

This course is an excellent platform for further studies, both in terms of short add on courses, and more structured post graduate degrees such as Master of Science and PhD programmes at CIT.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

Creativity, Innovation & Teamwork
Biomolecules and Cells
Bioanalytical Science 1
Introduction to Physics
Technological Mathematics 1
General and Inorganic Chemistry

SEMESTER 2

Enzymes, Energy & Disease
Bioanalytical Science
Physical and Organic Chemistry
Calculus & Statistics
Introduction to Biotechnology
Electives (Choose 1)
Physics II
Calibration Science
Computing Skills
Free Choice Module

Herbal Science (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 330	At least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at Grade D3 minimum (Ordinary or Higher Level). The 6 subjects must include Mathematics and either English or Irish.	Dr Deirdre Gilroy Department of Biological Sciences T: 021 432 6885 E: deirdre.gilroy@cit.ie

AWARD
Bachelor of Science (Honours) in Herbal Science

CR 330	CAO Points 2009
Round 1 Points	225
Final Points	225

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Biology, Chemistry, Physics, and Mathematics.

Work Placement
A placement will comprise a mandatory Year 3 course activity. The placement will normally follow the end of module examination in Year 3, and will consist of a minimum of 120 hours duration.

Non-Standard Applicants
Encouragement will be given to non-standard applicants, including mature students, to enter the course. In the case of these applicants, their academic qualification and recognised prior learning (RPL) will be assessed and evaluated by the Department of Biological Sciences. The assessment will be based on the Regulations and Guidelines of Cork Institute of Technology in this area. In the short-term, it is anticipated that up to 30% of places will be offered to non-standard applicants, see further information in the Yellow Pages at the back of this Handbook.

About Herbal Science
This programme was developed in conjunction with the Irish Institute of Medical Herbalists (IIMH) in order to enable students to study all aspects of herbs and other related medicinal plants. It covers a wide range of subjects, enabling students to appreciate the history and philosophy inherent in the cultural use of herbs. The course encompasses numerous topics which stem from the cultivation, harvest, processing, application and effect of using herbs and other associated plant materials in medicinal and other relevant applications. It is critical that all herbal and plant-associated remedies are produced to the highest standards, thereby delivering the highest quality and safety for both patient and customer. This course will provide students with a broad scientific education based on the use of medicinal plant materials. The fundamental concepts of constitutional medicine will be taught throughout the course and will form the basic building blocks for innovative research in both pharmacology and clinical herbal medicine.

Graduates can expect employment in the following relevant areas: quality control/ quality assurance, sales, market research, technical support, pharmaceuticals, biopharmaceuticals, biotechnology, agriculture, food, horticulture, retail, educational, research, healthcare and professional medical herbalism.

The course gives the educational foundation necessary to pursue a career as a medical herbalist. The IIMH accepts and recognises this BSc Honours Degree as constituting Part 1 of its professional training requirement for qualification as a medical herbalist/practitioner in Ireland. Further study/training is required to achieve Part 2 of the IIMH professional requirements. The course also provides the student with an enormous opportunity to develop the skills necessary to commence herbal research or clinical training at an advanced level.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Anatomy Cells/Tissues
- Physiology Cells/Tissues
- Botany
- Introduction to Physics
- General and Inorganic Chemistry

SEMESTER 2
- History and Philosophy
- Human Systems Anatomy
- Human Systems Physiology
- Horticulture
- Physical and Organic Chemistry
- Computing Skills

Further Studies
Suitable qualified graduates may progress to the academic qualifications of Masters and Doctoral Degrees and also avail of other relevant postgraduate opportunities that may arise.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Nutrition and Health Science (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 333	At least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at Grade D3 minimum (Ordinary or Higher Level). The six subjects must include Mathematics and English or Irish.	Dr Hugh McGlynn Department of Biological Sciences T: 021 432 6472 E: hugh.mcglynn@cit.ie

AWARD

Bachelor of Science (Honours) in Nutrition and Health Science

CR 333	CAO Points 2009
Round 1 Points	275
Final Points	275

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Biology and Chemistry.

Work Placement

Work placement is a mandatory part of this course. In Year 3, students will spend a minimum of 16 weeks in a local, national or internationally approved work environment.

About Nutrition and Health Science

This course is designed to meet the need for technically competent managers, analysts and officers in the design, development, production, upgrading of products which are ingested, injected, implanted, inhaled, inserted or topically applied to the bodies of humans or animals for the maintenance, restoration and promotion of their health and well-being.

Years 1 and 2 include a range of broad scientific modules that cover fundamental topics such as cells, microbiology, biochemistry, introductory bioprocessing and data analysis. Years 3 and 4 cover more specialised topics such as Food and Healthcare Chemistry, Toxicology and Microbiology.

It is envisaged that a graduate of this course will be employed in any sector of the Food or Healthcare Industries. This could be in the development, production or assurance of products and services for the Food, Nutrition, Medical Devices, Cosmetic, Pharmaceutical, Animal feed and Veterinary Care Sectors. Salary varies widely depending on the job type and employer, but currently a fresh graduate in this area would expect a starting salary in excess of €40,000 excluding benefit options.

Further Studies

This course is an excellent platform for further studies, both in terms of short add on courses, and more structured post graduate degrees such as Master of Science and PhD programmes.

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

- Creativity, Innovation & Teamwork
- Technological Maths
- Biomolecules and Cells
- General and Inorganic Chemistry
- Bioanalytical Science I
- Introduction to Physics

SEMESTER 2

- Introduction to Bioprocessing
- Enzymes, Energy and Disease
- Physical and Organic Chemistry
- Bioanalytical Science II
- Calculus and Statistics
- *Electives (Choose 1)*
- *Physics*
- *Process Principles and Design 1*
- *Free Choice Module*

Applied Biosciences

Level 7 CAO Code	Admission Requirements	Enquiries
CR 006	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Dr Aidan Coffey Department of Biological Sciences T: 021 432 6306 E: aidan.coffey@cit.ie

AWARDS

Bachelor of Science in Food and Health Science
Bachelor of Science in Applied Biosciences and Biotechnology

Years 1 and 2 are common. Students will not be required to choose their preferred qualification (Food and Health Science or Applied Biosciences and Biotechnology) until the beginning of Year 3.

hd
Progress to Honours Degree

CR 006	CAO Points 2009
Round 1 Points	235
Final Points	235

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Applied Biosciences.

Helpful Leaving Certificate subjects
Chemistry, Biology, Physics, and Mathematics.

Work Placement
At present, students generally spend four months in appropriate work placement in third year. The placement can be organised for Ireland or abroad.

About Applied Biosciences
This course provides students with a broad scientific education. The basic concepts of the biological sciences, biochemistry, cell biology, immunology, microbiology and molecular biology are emphasised. Knowledge of environmental science, analytical techniques, quality management and bioprocessing are seen as key requirements and these disciplines are studied in detail. Laboratory work forms a substantial part of the course. The development of high-level laboratory skills and the ability to use them in the service of advanced industrial biology are key aims of the course. Opportunities currently exist for a number of students on courses to participate in EU funded exchange programmes involving colleges and enterprises in Europe.

The Bachelor of Science in Applied Biosciences and Biotechnology meets the demands of biotechnology, food and pharmaceutical industries for technologists and analysts. In addition, the requirements of the services and research laboratories for staff trained in advanced biologically based analytical techniques are met by graduates of the course.

The Bachelor of Science in Food and Health Science meets the changing needs of the Food, Pharmaceutical and Biotechnology industries for technicians and analysts. Graduates are in great demand from multinational pharmaceutical companies, as well as the traditional employers in the food and drink sectors.

Advanced manufacturing in the food, health care, cosmetic, pharmaceutical and chemical industries have been employment destinations for graduates of this course as well as state and local authority laboratories.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates of the BSc in Food and Health Science may apply for entry to Year 4 of
- → BSc (Honours) in Applied Biosciences or
- → BSc (Honours) in Nutrition and Health Science.

Suitably qualified graduates of the BSc in Applied Biosciences and Biotechnology may apply for entry to Year 4 of
- → BSc (Honours) in Pharmaceutical Biotechnology or
- → BSc (Honours) in Applied Biosciences.

Graduate **Profile**

Dr Jim O'Mahony
RESEARCH SCIENTIST/LECTURER

Jim graduated from the CIT Biological Sciences Department. He completed an MSc in Biotechnology and a PhD in Microbiology. He was subsequently employed as a scientist to work on projects concerning Listeria monocytogenes and Mycobacterium paratuberculosis, becoming a senior research scientist at the Alimentary Pharmabiotic Centre. In 2005, Jim was appointed a Lecturer in Biological Sciences, CIT.

First Year Modules http://modules.cit.ie

SEMESTER 1
- Creativity, Innovation & Teamwork
- Biomolecules and Cells
- Bioanalytical Science I
- Introduction to Physics
- Technological Maths I
- General and Inorganic Chemistry

SEMESTER 2
- Enzymes, Energy & Disease
- Bioanalytical Science II
- Physical and Organic Chemistry
- Calculus & Statistics
- Physics
- *Electives (Choose 1)*
- *Introduction to Biotechnology*
- *Computing Skills*
- *Free Choice Module*

Analytical Chemistry with Quality Assurance (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 340	Leaving Certificate Grade D3 at Ordinary or Higher level in 6 subjects including Mathematics and either English or Irish, and including at least two C3's at Higher Level.	Dr John Wood Department of Chemistry T: 021 432 6214 E: john.wood@cit.ie

AWARD

Bachelor of Science (Honours) in Analytical Chemistry with Quality Assurance

CR 340	CAO Points 2009
Round 1 Points	305
Final Points	285

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Chemistry, Physics, Mathematics, and Biology.

Work Placement

A substantial period of industrial work experience takes place during Year 3 of the course, usually commencing at the start of April, and frequently continuing until the end of the summer period.

About Analytical Chemistry with Quality Assurance

Chemistry is the fundamental science that deals with the "three Cs" – the composition of matter, the changes that transform matter, and the conditions under which those changes occur. The study of fundamental chemistry allows us to increase our total knowledge and understanding of our universe, our environment, and indeed life itself.

Applied chemistry uses our understanding of fundamental chemistry to improve the way in which we live, work, and develop. The course is examined using a combination of continuous assessment of both theory and practical work, and end of year examinations. Graduates are prepared for laboratory careers in the pharmachem industries. The BSc (Hons) ACQUA focuses on quality assurance, which is of vital importance to the pharmaceutical, chemical and allied industries. Graduates are qualified in areas such as Quality Standards, Good Manufacturing Practice, Total Quality Management, and Regulatory Compliance. They may take up leadership roles in areas such as method design and implementation, process validation, and management of quality systems. Starting salary (general guideline only): €35,000+ p.a.

Professional Recognition

The Honours BSc ACQUA is recognised by the Institute of Chemistry of Ireland and the Royal Society of Chemistry. Graduates are eligible for membership of both professional bodies.

Teaching

The honours BSc ACQUA is recognised by the Teaching Council. Graduates of the course are approved for the teaching of Chemistry in second level schools. As with other degrees, a training and teaching qualification such as a HDip is also required.

Further Studies

For details, see www.cit.ie

Graduates achieving a First Class or Second Class (Grade 1) honours degree may proceed to postgraduate research programmes in Chemistry (MSc, PhD) at CIT. Such graduates will be eligible for consideration for a limited number of Postgraduate Research Scholarships offered by CIT each year. Holders of the honours BSc ACQUA may also embark on postgraduate programmes at Irish and UK universities.

Graduate Profile

Dr Brendan Healy
TECHNICAL SERVICES CHEMIST

"After graduation, I qualified for a research grant and joined Dr Kevin James' research group at CIT to start my PhD research in freshwater and marine natural toxins. On completion of the PhD, I began work as an Analytical Chemist in the Quality Assurance Department at Pfizer. This role involved validation and transfer of analytical methods, analytical support for production and QC, troubleshooting, method development, cleaning validation, regulatory support for new product submissions, technical writing, etc. I had encountered many of these topics during both my BSc and PhD studies."

First Year Modules http://modules.cit.ie

SEMESTER 1

- Creativity, Innovation & Teamwork
- General and Inorganic Chemistry
- Introduction to Physics
- Technological Mathematics 1
- Biomolecules and Cells
- Laboratory Health & Safety

SEMESTER 2

- Physical Chemistry 1
- Organic Chemistry
- Calculus and Statistics for Biological Science
- Computing Skills
- *Electives (Choose 2)*
- *Physics*
- *Enzymes, Energy and Disease*
- *Introduction to Biotechnology*
- *Free Choice Module*

Analytical and Pharmaceutical Chemistry

Level 7 CAO Code	Admission Requirements	Enquiries
CR 007	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Dr John Wood Department of Chemistry T: 021 432 6214 E: john.wood@cit.ie

AWARD

Bachelor of Science in Analytical and Pharmaceutical Chemistry

hd
Progress to Honours Degree

CR 007
Round 1 Points 295
Final Points 200

CAO Points 2009

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Science in Chemistry.

Helpful Leaving Certificate subjects
Chemistry, Physics, Mathematics, and Biology.

Work Placement
A substantial period of industrial work experience takes place during Year 3 of the course, usually commencing at the start of April, and frequently continuing until the end of the summer period.

About Analytical and Pharmaceutical Chemistry
Chemistry is the fundamental science that deals with the "three Cs" – the composition of matter, the changes that transform matter, and the conditions under which those changes occur. The study of fundamental chemistry allows us to increase our total knowledge and understanding of our universe, our environment, and indeed life itself.

Courses in chemistry at CIT have provided many of the highly skilled personnel at various levels required by the industry. School leavers are offered a flexible and attractive route through an extremely diverse science. The programme aims to give students the knowledge and skills to practice chemistry in the laboratory environment.

Career opportunities exist not only in the chemical/pharmaceutical industry, but also in such diverse areas as electronics, metallurgy, and food/beverage processing. Starting salary (general guideline only): €32,000+.

Further Studies
For details, see www.cit.ie

Graduates of the Bachelor of Science in Analytical and Pharmaceutical Chemistry who have attained a minimum final average mark of 50% may proceed to Year 4 of

→ Bachelor of Science (Honours) in Analytical Chemistry with Quality Assurance (ACQUA).

This in turn may lead to the option to proceed to postgraduate studies (MSc or PhD) in Chemistry at CIT or elsewhere.

Teaching
The Honours Degree satisfies the degree requirements of the Teaching Council. As with other degrees, a training and teaching qualification such as a HDip is also required.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Aileen Cremin
QUALITY CONTROL SPECIALIST

"I graduated with the BSc in Analytical and Pharmaceutical Chemistry, and then completed BSc (Hons) ACQUA the following year. I now work for Pfizer Ireland Pharmaceuticals. I am based in the Quality Control Laboratory as part of the finished products team. The position of a quality control specialist has plenty of variety and challenges, with many opportunities to get involved in different areas within the pharmaceutical manufacturing industry. I use a lot of what I learned in my degree when dealing with my daily workload, but I appreciate it even more when troubleshooting the problems that arise from time to time."

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
General and Inorganic Chemistry
Introduction to Physics
Technological Mathematics 1
Biomolecules and Cells
Laboratory Practices

SEMESTER 2
Physical Chemistry 1
Organic Chemistry
Calculus and Statistics for Biological Science
Computing Skills
Electives (Choose 2)
Physics
Enzymes, Energy and Disease
Introduction to Biotechnology
Free Choice Module

Software Development (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 106	A minimum of Leaving Certificate Grade C3 in two Higher level subjects together with a Grade D3 in four other subjects at Ordinary or Higher level (one of which must be Irish or English). Applicants must have obtained a grade D3 or better in Higher level Mathematics or a Grade B3 or better in Ordinary level Mathematics.	Helen Fagan Department of Computing T: 021 433 5160 E: helen.fagan@cit.ie

AWARD
Bachelor of Science (Honours) in Software Development

CR 106	CAO Points 2009
Round 1 Points	275
Final Points	275

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Subjects with 'problem solving skills' or that require analytical thought, e.g. English, Science, Mathematics, Engineering, and Business.

Work Placement
Students are in industry for five months during the third year of the course. The placement runs from April to August inclusive. Placements for students are organised on a country-wide basis with a particular focus on Cork and Dublin. Students have been placed in France, Germany, Sweden and the USA.

About Software Development
Software development programmes provide graduates with the skills and knowledge required to design and create the software programmes that people use every day. For example, you use software programmes when using the internet, booking a flight or writing up your homework on a PC.

The key to this honours degree lies in its broad range of modules. It is designed to give the student a wide range of career options on completion. Elective modules in the final year allow the student an opportunity to specialise in particular application areas of their choice e.g. IT security, graphics, and artificial intelligence.

In addition to pure computing modules, CIT include business and management modules to prepare you for project and general management allowing you better opportunities to rise up the career ladder. Starting salary (general guideline only): €30,000+.

Further Studies
For details, see www.cit.ie

Graduates with honours degrees of suitable grades are eligible to apply for postgraduate research degrees at Masters (MSc) or Doctoral (PhD) level where further specialisation in your preferred area of computing is possible.

- → MSc in Software Development
- → MSc in Networking and Security

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Garry Bennett

"My first employment was with Yahoo! as a junior developer and within one year, I was promoted to Senior Developer. Another year on, I was promoted to Engineering Manager for the Travel and Autos categories. After 4 years with Yahoo!, I moved to Sydney and worked as Project Manager with a leading web development company – SydneyWeb. Due to my experience, I was entrusted with some of their largest and more complex projects which I found very rewarding. I returned to Ireland in December 2007 and launched www.mytown.ie. Both my degree and practical experience aided the development and the launch of the website." At the 12th Annual Genesis Enterprise Programme (GEP) 2010 Awards & Showcase, Garry won the Business Development Achievement Award.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Programming Fundamentals 1
- Networking Fundamentals
- Algorithmic Problem Solving
- Discrete Mathematics
- Computer Architecture

SEMESTER 2
- Programming Fundamentals II
- Web Development Fundamentals
- Introduction to Business Systems
- Calculus 1 Computing
- Microprocessor Architecture
- *Electives (Choose 1)*
- *Mathematical Exploration*
- *Communications*
- *Free Choice Module*

Software Development and Computer Networking (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 116	A minimum of Leaving Certificate Grade C3 in two Higher level subjects together with a Grade D3 in four other subjects at Ordinary or Higher level (one of which must be Irish or English). Applicants must have obtained a grade D3 or better in Higher level Mathematics or a Grade B3 or better in Ordinary level Mathematics.	Jonathon Sherwin Department of Computing T: 021 433 5160 E: IT@cit.ie

AWARD

Bachelor of Science (Honours) in Software Development and Computer Networking

CR 116	CAO Points 2009
Round 1 Points	285
Final Points	255

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Subjects with 'problem solving skills' or that require analytical thought, e.g. English, Science, Mathematics, Engineering, and Business.

Work Placement

Students are in industry for five months during the third year of the course. The placement runs from April to August inclusive. Placements for students are organised on a country-wide basis with a particular focus on Cork and Dublin. Students have been placed in France, Germany, Sweden and the USA.

About Software Development and Computer Networking

This is a bi-focal course with equal emphasis on Software Development and Computer Networking. The aim of the programme is to produce software developers with general computing skills but with an emphasis on programming, analysis and design skills necessary for the creation of network/internet based applications. Graduates may also find employment in a wide range of industries as networking specialists.

If you feel that you would be interested in planning and designing the computer networks used to allow computers communicate all over the world then apply for this course. You will also acquire excellent expertise in the design and development of computer software. Starting salary (general guideline only): €30,000+.

Further Studies

For details, see www.cit.ie

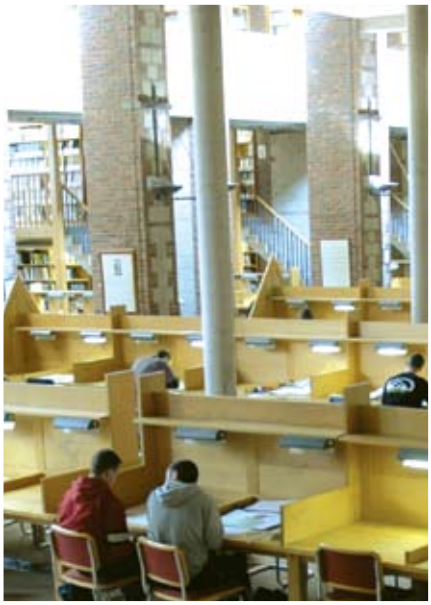
Graduates with honours degrees of suitable grades are eligible to apply for postgraduate research degrees at Masters (MSc) or Doctoral (PhD) level where further specialisation in your preferred area of computing is possible.

- → MSc in Software Development
- → MSc in Networking and Security (Taught)

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.



Graduate Profile

Donal Lynch
SOFTWARE ENGINEER

"The work placement was of great benefit in which I was very fortunate to get the opportunity to work with Cisco Systems in San José, California. This was definitely one of the highlights of my four years spent in CIT. Upon graduation, I rejoined Cisco Systems as a software engineer, this time in its newly established research & development centre based in Galway. I'm currently working in the Unified Communications Business Unit where I get to apply both my knowledge on networking protocols and software design and development, all of which I acquired during my time spent in CIT."

First Year Modules

SEMESTER 1

- Creativity, Innovation & Teamwork
- Programming Fundamentals I
- Networking Fundamentals
- Discrete Mathematics 1
- Computer Architecture
- Algorithmic Problem Solving

SEMESTER 2

- Programming Fundamentals II
- Routing Protocols & Concepts
- Introduction to Data Communications
- Calculus 1 for Computing
- Operating Systems Fundamentals
- *Electives (Choose 1)*
- *Mathematical Exploration*
- *Introduction to Human Computer Interfaces*
- *Communications*
- *Web Publishing*
- *Free Choice Module*

IT Management (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 310	A minimum of Leaving Certificate Grade C3 in two Higher level subjects together with a Grade D3 in four other subjects at Ordinary or Higher level including Mathematics and either Irish or English.	Noreen Gubbins Department of Computing T: 021 433 5160 E: IT@cit.ie

AWARD
Bachelor of Science (Honours) in IT Management

CR 310	CAO Points 2009
Round 1 Points	325
Final Points	295

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Subjects with 'problem solving skills' or that require analytical thought, e.g. English, Science, Mathematics, Engineering, and Business.

Work Placement
Work placement in industry for six months during Year 3 of the course. The placement runs from February to July inclusive. Placements for students are organised on a country-wide basis with a particular focus on Cork and Dublin.

About IT Management
IT Management is concerned with the planning, installing, supporting and managing the IT resources within an organisation. IT resources include all the computer hardware, networking equipment and computer software that an organisation uses to support its operation. Programmes in this area, IT Management and Information Technology Support, are designed to provide the graduate with the technical, communication and management skills to operate across a wide range of organisation types.

At a time when the strategic reliance of businesses upon IT systems and infrastructures grows evermore critical, the demand for highly skilled graduates with the skills to manage and implement IT services and projects of a complex technical nature remains unabated. This programme is specifically designed to address this need.

Graduates who can manage, design, implement and maintain ever-evolving IT systems and infrastructures are in constant demand. Starting salary (general guideline only): €30,000+.

Postgraduate Programmes
For details, see www.cit.ie

Suitably qualified graduates may apply for a

→ MSc in Networking and Security (Taught)

Honours Computing graduates are eligible to apply for a Masters degree (MSc Research). Research may be in one of many areas. The present areas of Department research include distributed applications, component software, software engineering, artificial intelligence and computer networks.

The Department has strong links with institutions in Germany, Sweden, France and Portugal. The MSc normally takes two years. A Doctorate (PhD) requires at least three years of full-time post-graduate research work.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Programming Fundamentals 1
- Networking Fundamentals
- Statistical Calculations
- Computer Architecture
- Business Management 1

SEMESTER 2
- Probability & Financial Mathematics
- Business Management 2
- Computer Hardware
- Routing Protocols and Concepts
- Operating Systems Fundamentals
- *Electives (Choose 1)*
- *Communications*
- *Web Development Fundamentals*
- *Programming Fundamentals II*
- *Free Choice Module*

Web Development (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 312	A minimum of Leaving Certificate Grade C3 in two Higher level subjects together with a Grade D3 in four other subjects at Ordinary or Higher level including Mathematics and either Irish or English.	Gary Couse Department of Computing T: 021 433 5160 E: gary.couse@cit.ie

AWARD

Bachelor of Science (Honours) in Web Development

CR 312 CAO Points

New Course Entry 2010

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Subjects with 'problem solving skills' or that require analytical thought, e.g. English, Science, Mathematics, Engineering, and Business. A modern continental language such as German or French would be an advantage for the semester abroad.

Work Placement or Study Abroad

Students will spend semester 6 studying at a foreign university or on work placement. The Department has links to many third level institutes in Europe and will advise students where study places may be found where the medium of instruction is English. Movement within the EU may be supported by the EU Erasmus programme.

About Web Development

The course can be considered as software development for the web. It provides graduates with the skills and knowledge required to design and create web sites and web applications (the software programmes that people use every day on the Internet). Some examples would be Facebook, Youtube, Amazon, or basically any website you visit. The course has a strong focus on the use of current and emerging web technologies and user experience.

Besides the Web based modules, the course has a mix of general software development modules to produce a rounded and competent software developer. In addition, CIT include modules on business, management and entrepreneurship to better prepare you for your career.

The trend in software is towards web based systems. Thus the demand for qualified developers in the space is strong and growing. There are a large number of companies in Ireland, both large and small, developing applications for the internet.

Further Studies

For details, see www.cit.ie

Graduates with honours degrees of suitable grades are eligible to apply for postgraduate research degrees at Masters (MSc) or Doctoral (PhD) level where further specialisation in your preferred area of computing is possible. Graduates can also apply for a taught MSc course such as:

- → MSc in Software Development
- → MSc in Networking and Security

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

- Creativity, Innovation & Teamwork
- Web Development Fundamentals
- Networking Fundamentals 1
- Problem Solving and Programming
- Trends in Computer Technology
- Computer Hardware

SEMESTER 2

- Programming Fundamentals
- Advanced Web Development
- Introduction to HCI
- Networking Fundamentals 2
- Computer Architecture
- *Electives (Choose1)*
- *Web Publishing*
- *Free Choice Module*

Computing

Level 7 CAO Code	Admission Requirements	Enquiries
CR 016	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Deirdre Dunlea Department of Computing T: 021 433 5160 E: IT@cit.ie

AWARD
Bachelor of Science in Computing

hd
Progress to Honours Degree

CR 016	CAO Points 2009
Round 1 Points	265
Final Points	255

Full-time course duration
3 Years (6 Semesters)

Higher Certificate Option
Please note: Students who successfully complete Year 2 of this programme and do not wish to progress to Year 3 will receive the Higher Certificate in Science in Computing.

Helpful Leaving Certificate subjects
Subjects that contain some element of problem solving e.g. Science, Engineering, Business, and Mathematics.

About Computing
This course is flexible and will provide you with the opportunity to qualify at Higher Certificate level after two years at which time you can leave CIT to find employment or decide to stay on in CIT and acquire your degree or honours degree subsequently. Acquiring an honours degree in software development using this option takes a year longer than would be the case if you entered the BSc (Honours) in Software Development CR106 directly.

This three year programme aims to provide the graduate with a range of core computing skills. Core skills include computer programming, computer networking, databases, web applications, development techniques and interpersonal communications. This broad base of computing skills is what gives graduates of the course flexibility in career choices. Many graduates have opted to do further study in software development and have followed careers in that area. Others have opted for technical support roles. The ability to choose career paths after the course is a very attractive option for many applicants.

A Computing Degree graduate will be a competent computer programmer/ software engineer or IT support supervisor, with good design skills and with more knowledge of hardware in the area of networks. Starting salary (general guideline only): €22,000 - €25,000.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to the one year add-on
- → Bachelor of Science (Honours) in IT Management
  or to Year 3 of
- → Bachelor of Science (Honours) in Software Development CR106, which necessitates two further years of study.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

William Lynn
RESEARCHER

"I graduated with a Higher Certificate in Computing, and progressed to a BSc Honours in Software Development. During this time, I developed a software product called Nextbus, which is an electronic bus timetable system that works on mobile devices. Nextbus won 3rd prize in the CIT Prize for Innovation. It is a great course and I would recommend it to anybody who has an interest in the area of software." William is currently working as a researcher in an interdisciplinary team studying the impact of climate change. He is developing an application to help scientists visualise the impact of climate change particularly in coastal regions. His prototype showed the impact of flooding on Cork city.

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Programming Fundamentals 1
- Networking Fundamentals
- Statistical Calculations
- Computer Architecture
- Algorithmic Problem Solving

SEMESTER 2
- Programming Fundamentals II
- Routing Protocols & Concepts
- Probability & Financial Mathematics
- Computer Hardware
- Web Development Fundamentals
- *Electives (Choose 1)*
- *Mathematical Exploration*
- *Introduction to Human Computer Interfaces*
- *Communications*
- *Free Choice Module*

Information Technology Support

Level 6 CAO Code	Admission Requirements	Enquiries
CR 888	Leaving Certificate Grade D3 at Ordinary or Higher level in 5 subjects including Mathematics and either English or Irish.	Noreen Gubbins Department of Computing T: 021 433 5160 E: IT@cit.ie

AWARD
Higher Certificate in Science in Information Technology Support

→ → → **d** → → → **hd**
Progress to Degree and to Honours Degree

CR 888 **CAO Points 2009**
Round 1 Points 255
Final Points 255

Full-time course duration
2 Years (4 Semesters)

Helpful Leaving Certificate subjects
Mathematics, Science, Engineering, and Business.

Work Placement
Six months in industry from February to July inclusive. The majority of placements are in the Cork area but can be countrywide. The timing of work placement in this course may be changed from time to time based on industry requirements.

About Information Technology Support
It is designed to produce technicians and technical managers (through add-on degree options) to support the IT systems used by most modern industries. This programme provides a specialised theoretical and applied learning experience as well as structured placement in industry.

After two years, the successful student has a highly relevant third-level qualification and six months of industry experience. The student may then elect to complete a third year to obtain additional technical managerial/ supervisory skills. Starting salary (general guideline only): €20,000+.

Further Studies
For details, see www.cit.ie

Suitably qualified graduates are eligible to apply for entry to
→ Bachelor of Science in Information Technology Support.
and thereafter to
→ Bachelor of Science (Honours) in IT Management.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

Diarmuid Cronin
INFRASTRUCTURE ENGINEER

Diarmuid completed the Higher Certificate in Information Technology Support in 2001 attaining one of the awards for the best IT Support graduates in Ireland. He followed this qualification by successfully completing the forerunner to the BSc in IT Support course by night in 2004, and then graduated with an honours degree in Computer Services Management in 2006.

Diarmuid currently works as a Level 111 infrastructure Engineer contracted to Pfizer Pharmaceuticals, Cork.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Programming Fundamentals 1
Networking Fundamentals
Statistical Calculations
Computer Architecture
Algorithmic Problem Solving

SEMESTER 2
Desktop Applications Support
Web Development Fundamentals
Computer Hardware
Routing Protocols and Concepts
Operating Systems Fundamentals
Electives (Choose 1)
Communications
History of Computing
Media Data Formats
Programming Fundamentals II
Free Choice Module

Science & Computing Master Chart

Course Code	Course Name	Page No.	Initial Award	Duration in years	Higher Certificate Step-off Available	No. of 1st Year Places	Round 1 Points 2009	Final Points 2009	MINIMUM ENTRY REQUIREMENTS: No. of Subjects D3 (O/H)	No. of C3 (H) Grades	Maths Grade	English or Irish Grade	Other Requirements	INITIAL AWARD & PROGRESSION OPPORTUNITIES AT CIT: Higher Certificate	Bachelor Degree	Honours Bachelor Degree	Post Grad
CR305	Science (Common Entry Level 8) (Ref.2)	85	Honours Bachelor Degrees			20	295	295	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR300	Science (Commmon Entry Level 7) (Ref.3)	86	Bachelor Degrees		✔ (Ref.1)	20	285	210	5	0	D3 (O/H)	D3 (O/H)			✔	✔	✔
CR360	Instrument Engineering	87	Honours Bachelor Degree	4		20	325	310	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR365	Environmental Science & Sustainable Technology	88	Honours Bachelor Degree	4		20	New Course	New Course	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR001	Applied Physics & Instrumentation	89	Bachelor Degree	3	✔ (Ref.1)	20	220	220	5	0	D3 (O/H)	D3 (O/H)			✔	✔ (Ref.7)	✔
CR325	Pharmaceutical Biotechnology	91	Honours Bachelor Degree	4		20	310	300	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR333	Nuitrition & Health Science	93	Honours Bachelor Degree	4		20	275	275	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR006	Applied Biosciences	94	Bachelor Degrees	3	✔ (Ref.1)	40	235	235	5	0	D3 (O/H)	D3 (O/H)			✔ (Ref. 4/5)	✔	✔
CR320	Biomedical Science (CIT & UCC Joint Course)	90	Honours Bachelor Degree	4		30	410	410	6	2	D3 (O/H)	D3 (O/H) in both Irish & English	C3 (H) in one Science Subject (Ref.6)			✔	✔
CR330	Herbal Science	92	Honours Bachelor Degree	4		20	225	225	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR340	Analytical Chemistry with Quality Assurance	95	Honours Bachelor Degree	4		20	305	285	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR007	Analytical & Pharmaceutical Chemistry	96	Bachelor Degree	3	✔ (Ref.1)	20	295	200	5	0	D3 (O/H)	D3 (O/H)			✔	✔	✔
CR106	Software Development	97	Honours Bachelor Degree	4		20	275	275	6	2	D3 (H) or B3 (O)	D3 (O/H)				✔	✔
CR116	Software Development & Computer Networking	98	Honours Bachelor Degree	4		20	285	255	6	2	D3 (H) or B3 (O)	D3 (O/H)				✔	✔
CR310	IT Management	99	Honours Bachelor Degree	4		20	325	295	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR312	Web Development	100	Honours Bachelor Degree	4		20	New Course	New Course	6	2	D3 (O/H)	D3 (O/H)				✔	✔
CR016	Computing	101	Bachelor Degree	3	✔ (Ref.1)	40	265	255	5	0	D3 (O/H)	D3 (O/H)			✔	✔ (Ref.8)	✔
CR888	Information Technology Support	102	Higher Certificate	2		20	255	255	5	0	D3 (O/H)	D3 (O/H)		✔	✔	✔	✔

Ref.1 Students who successfully complete Year 2 of the Bachelor Degree Programme and do not wish to progress to Year 3, will receive a Higher Certificate Qualification.
Ref.2 At the end of Semester 1 students may apply to transfer into CR325, CR333, CR340, CR360, CR365 or CR001, CR006, CR007.
Ref.3 At the end of Semester 1 students may apply to transfer into CR001, CR006 or CR007.
Ref.4 Bachelor of Science in Food and Health Science
Ref.5 Bachelor of Science in Applied Biosciences and Biotechnology
Ref.6 Science Subject requirement can be from Chemistry, Biology, Physics or Phys/Chem.
Ref.7 Bachelor of Science (Honours) in Applied Physics & Instrumentation or Bachelor of Science (Honours) in Instrument Engineering
Ref.8 Bachelor of Science (Honours) in Software Development OR Bachelor of Science (Honours) in IT Management

NOTE: Round 1 Points 2010 can be found inside the back cover. Number of First Year Places may change.

cit
cork school of music

CAO Course

Level 8
CR 121 Bachelor of Music (Honours)

Postgraduate Programmes

MA (Taught) in Music
MA (Taught) in Music & Technology
MA & PhD (by Research)

CIT Cork School of Music

A Distinguished History

Founded in 1878, the Cork School of Music (CSM) was the first Municipal School of Music to be established in Ireland and Great Britain. The CSM was the first institution in the State to offer a Music Teaching Diploma Course embracing academic, pedagogic and practical training – and the spirit of this course was incorporated into the CSM's Honours BMus Degree Course. On 1st January 1993, together with the Crawford College of Art & Design, the Cork School of Music became a Constituent School of Cork Institute of Technology.

The musical life of Ireland is rich and varied, and nowhere more so than in Cork. The staff and students of the CSM play a pivotal role in this life through performances and their involvement with musical organisations not only in the city, but also regionally, nationally and internationally. The greatest asset of the CSM is its large and distinguished staff that includes many highly qualified and experienced teachers who are also performers of national and international standing.

Many opportunities exist for students to attend a wide variety of performances. Because of the CSM's city-centre location, students are able to avail of non-musical activities and a varied social life – vital ingredients of a liberal third-level education.

Facilities

A purpose-built home for the CSM opened in September 2007 and provides nearly 13,000m² of state-of-the-art facilities. This was supplied by means of a Public Private Partnership (Department of Education & Science & Hochtief PPP Solutions). It includes:

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

Opening Hours

Monday to Friday	8.30am - 10.00pm
Saturdays	9.00am - 5.30pm
Most Sundays	10.00am - 5.00pm

With an inspirational ground-floor atrium that appears to flow up the entire building through two huge natural light shafts, and with acoustic, temperature and humidity controls provided throughout the building, these facilities are without parallel. The CSM provides the internationally-renowned staff of Ireland's largest conservatory of music with the very best of facilities to ensure that many more students are able to pursue their studies.

One of the distinguishing features of the CSM is that music is music, and the genres of classical, Irish traditional, jazz and popular are treated with equal respect and opportunity. Another important distinguishing feature is the range and quality of ensemble music-making opportunities that are available to students. Performing in public is a vital ingredient of any musical training and the CSM provides many platforms, both formal and informal, for its students. Full-time students are encouraged to play a leading role in the performing groups presented by the CSM. In addition to a wide variety of chamber music groups, the CSM's bands (including jazz), choirs, drama groups, Irish traditional music groups, opera studio and orchestras have strong international as well as national reputations for their extensive profiles, achievements and standards. Students are also encouraged to enter the annual competitions that the CSM organises - particularly the Senior Concerto, Chamber Music, Piano Accompaniment, and Senior Recital Competitions.

Five bands cater specifically for wind and percussion students of the CSM. Four graded wind bands allow students to participate in large-ensemble music making from their earliest years of study to an advanced level. The CSM Wind Ensemble gives concerts throughout the country and has made several radio broadcasts. The CSM Jazz Big Band has given performances in Belgium, England, France, Holland, Italy, and the USA, as well as throughout Ireland.

The CSM has a proud tradition of producing professional singers – for example Majella Cullagh, Mary Hegarty, Bridget Knowles, Paul McNamara, Cara O'Sullivan and Finbarr Wright. As well as individual vocal lessons, students can participate in an Opera Workshop (which stages at least one major production each year), small vocal ensembles, and avail of specialist language classes. The CSM choirs range from a number of Junior Choirs, a Senior Choir and a Youth Choir to the Fleischmann Choir – a large mixed-voice choir which performs and broadcasts the large-scale works for chorus with orchestra, and tours annually both within Ireland and abroad.

Instrumentalists move through Junior and Intermediate orchestras and the Sinfonietta to the CSM Symphony Orchestra that performs the literature for full orchestra. Its programmes usually feature a Cork-trained or Cork-based artist as soloist, and its concerts in Cork and various other major centres around the country have earned it an enviable reputation for consistent excellence. In recent years, the CSMSO has committed itself to providing a series of rehearse-record sessions for composers studying in the CSM that have provided great encouragement and developmental support. In addition, the CSM supports specialist Baroque & Classical orchestral ensembles for those interested in historical performance practice and a Contemporary Music Group. Chamber music ensembles are a prominent feature of the CSM, and the Drama staff foster a range of drama groups.

Students benefit greatly from the residencies of both the Irish Chamber Orchestra and the Carducci Quartet through regular performances and coaching sessions.

CSM has state-of-the-art digital technology to provide a unique resource for recording as well as Music and Technology studies – the latter being integrated with the Honours BA Degree in Multimedia offered in CIT's Bishopstown Campus. An extraordinary bequest from the family of the late Norman Young also means that the CSM has an unique collection of professional recording equipment that represents all the technologies developed during the twentieth century.

About the Bachelor of Music (Honours)

This four-year programme leads to the award of an Honours BMus Degree. The course offered by the CSM differs fundamentally from those available elsewhere in the country in a number of ways. In particular, Performance Studies are an integrated feature throughout the course and students receive credit for them proportional to their level of ability and specialisation.

One of the attractions of this Honours Degree course is the nature of Years 1 and 2, which are best described respectively as "Foundation" and "Transition". The carefully co-ordinated elements of the Year 1 course seeks to ensure that every student is subsequently able to fulfil their potential, whatever specialisations are chosen. During Year 2, the continuation of core studies is balanced by the introduction of elements that ensure students can make an informed decision about which subjects they would like to specialise in during the third and fourth years. Whilst these might prove to be Performance Studies, or Music in the Community, or Pedagogic [Music Teaching] Studies, or Music and Technology, or Music Therapy, it is equally possible to specialise in Applied Musicianship Skills and/or Music History. Students specialising in conducting and/or orchestration reap the benefits of multiple sessions with the CSM's most senior performing groups, including the Fleischmann Choir, Symphony Orchestra and Wind Ensemble.

Potential professional performers can study with people who have played in and/or conducted professional orchestras, choirs and bands, are (or have been) members of professional chamber ensembles, and perform regularly as soloists. Aspiring teachers take courses in Pedagogic Studies that reflect the very best practices to be found in a School that has been at the cutting edge of music education for nearly 130 years. In addition, there is also coherent and meaningful provision for students whose interests and strengths lie in the fields of Applied Musicianship Studies (including Analysis, Composition and Counterpoint) and/or Historical Studies.

Staff of the CSM have blazed the trail for both Community Music and Music Therapy studies in Ireland, and the Music and Technology Studies are enhanced by the unique availability of state-of-the-art digital equipment in the CSM and linkages with the BA Honours Degree in Multimedia offered by CIT in its Bishopstown Campus.

Entrance Exam

The Entrance Exam involves an interview, performance, aural & sight singing tests, and a written paper dealing with rudiments, compositional techniques [harmony] and general musical knowledge. Samples of the aural & sight-singing tests and written paper are available upon request from The Administrator, CIT Cork School of Music, Union Quay, Cork, and to download from www.cit.ie. Normally, applicants should have reached at least Grade VI on their Principal Instrument and a list of scales, arpeggios, studies, pieces and concerto movements is also available for every instrument in respect of the CSM's own Grade VI syllabus.

Each candidate who sits the Entrance Exam is awarded up to a maximum of 600 points that are added to the Leaving Certificate points for the purpose of determining entry. Each standard candidate must achieve the minimum threshold of 240 points in the Entrance Exam and must also meet the minimum Leaving Certificate entry requirement in order to be eligible for admission. The next Entrance Exam will be held on Saturday 9th April 2011.

Generations of students and staff at CIT Cork School of Music will enjoy and be inspired by Vivienne Roche's beautiful and provocative works.

Music (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 121	Leaving Certificate in six subjects, including either English or Irish, and including at least two C3s at Higher Level. All applicants must sit the CSM's Honours BMus Degree Course Entrance Exam. There is no specific Mathematics requirement. Grade B2 or higher in Foundation Level Mathematics is recognised as one of the subjects for entry (see Yellow Pages in this Handbook).	The Administrator, CIT Cork School of Music, Union Quay, Cork T: (021) 480 7307 E: bmus@cit.ie

AWARD
Bachelor of Music (Honours)

CR 121	CAO Points 2009
Round 1 Points	790
Final Points	780

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Music.

Garda Vetting
In Year 3 and 4 of the Bachelor of Music (Honours) CR121, students studying the following modules will be required to undergo Garda vetting:

- Instrumental Teaching 1
- Instrumental Teaching 2
- Instrumental Teaching 3
- Music Therapy 1
- Music Therapy 2
- Community Music Project 1
- Community Music Project 2

These modules require applicants to undergo a Garda Vetting process. This requirement is due to the mandatory external placement element of the modules which will bring the applicant into contact with children or vulnerable adults and in which they will assume positions of trust. CIT uses the GCVU to help assess the suitability of all applicants on such modules. Offers of places on these designated modules will be provisional and contingent on the applicant's satisfactory completion of CIT's Garda Vetting Procedure.

Depending upon the outcome of the vetting process, the Institute reserves the following rights:

1. To not register a student
2. To remove an existing registered student.
3. to delay the student's practice placement modules.

In all circumstances, it is the applicant student's responsibility to proactively disclose any convictions/cases pending. The Institute reserves the right to inform any placement agency of the existence of any convictions/cases pending.

Career Opportunities
There are many employment opportunities for music graduates apart from the obvious ones of performing and teaching. This course enables students to develop the skills necessary for a career as a music/arts administrator, music librarian, conductor of amateur bands/choirs/orchestras/musical shows, music animator, music publicist/promoter, music editor. However, taking an Honours Degree in music does not mean that a graduate is restricted to a music-driven career for the rest of their life. In addition, a growing number of employers outside the specific music business favour music graduates because of the combination of intellectual training, digital skills, interpersonal sensitivity and greatly enhanced general response rates represented by a musical training.

Further Studies
For details see www.cit.ie

Suitably qualified students may apply either to undertake research (leading to the award of an MA and/or PhD), or to follow a Taught Masters course in either Music or Music and Technology.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

Graduate **Profile**

John O'Brien
CONDUCTOR

John was awarded a First Class Honours Degree having specialised in Performance studies (Organ) and Applied Musicianship Studies. His achievements in the Conducting element of the latter prompted him to take the CSM's Taught Masters Course (Conducting). Since his graduation, he has been in great demand as a conductor of musicals as well as choral and orchestral ensembles; he was the first Chorus Master of Opera 2005, and is co-founder/musical director of Cork Opera Works. Touring with choral ensembles to Austria, England, Italy, Spain and Wales has kept John busy all year round. John speaks with much affection of his time as a student in the CSM and is regarded as one of its finest ambassadors – with a blossoming career!

First Year Modules

SEMESTER 1
- Creativity, Innovation & Teamwork
- Core Instrumental Studies 1
- Instrumental Enhancement 1
- Core Musicianship Skills 1
- Repertory Engagement 1
- Music History: Perspectives

SEMESTER 2
- Core Instrumental Studies 2
- Instrumental Enhancement 2
- Core Musicianship Skills 2
- Repertory Engagement 2
- Performing Traditions
- Music and Technology 1

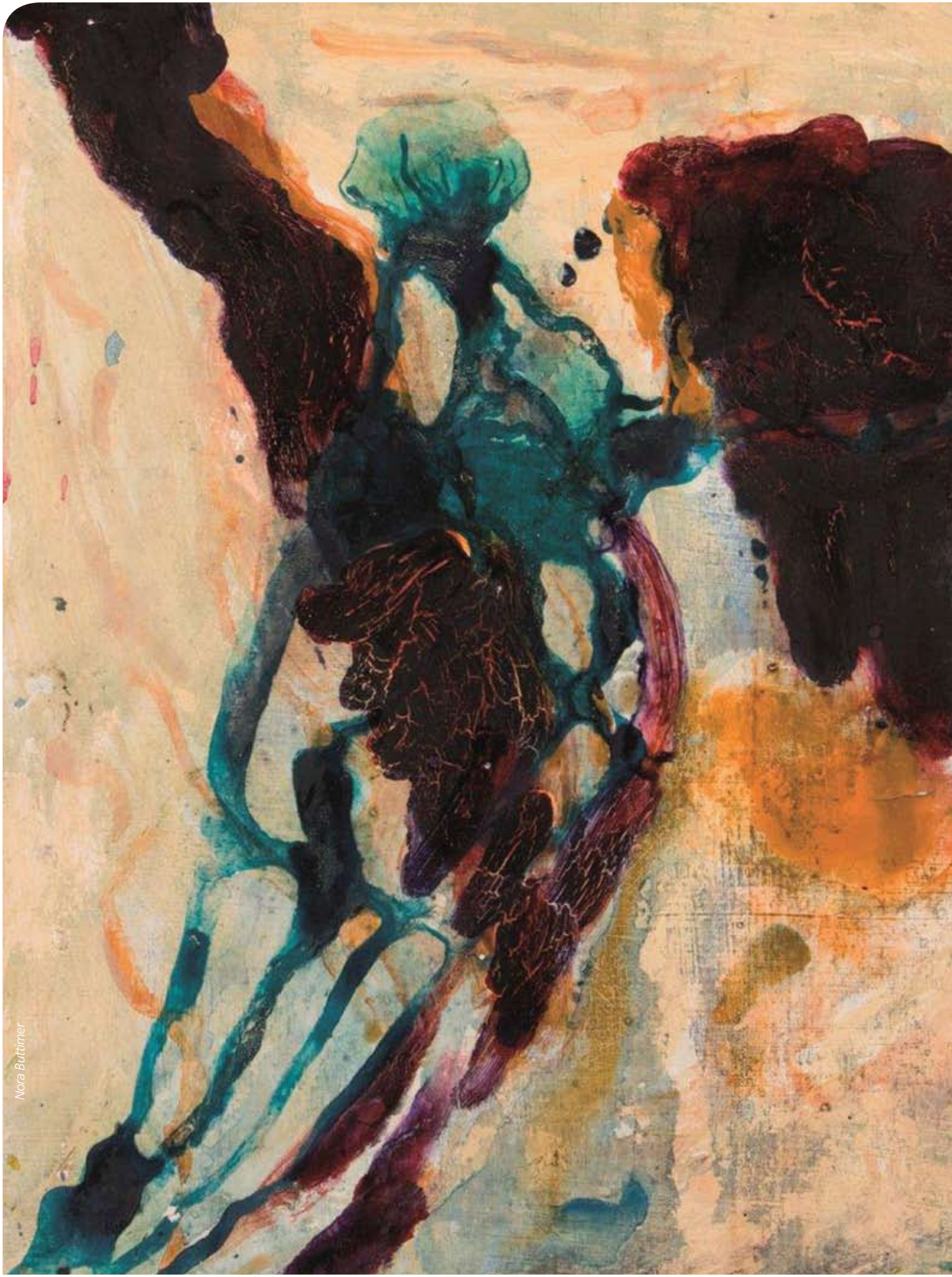
CIT Cork School of Music Master Chart

Course Code	Course Name	Page No.	Initial Award	Duration in years	Higher Certificate Step-off Available	No. of 1st Year Places	Round 1 Points 2009	Final Points 2009	MINIMUM ENTRY REQUIREMENTS: No. of Subjects D3 (O/H)	No. of C3 (H) Grades	Maths Grade	English or Irish Grade	Early Assessment Procedures	INITIAL AWARD & PROGRESSION OPPORTUNITIES AT CIT: Higher Certificate	Bachelor Degree	Honours Bachelor Degree	Post Grad
CR121	Music* (Ref.3)	107	Honours Bachelor Degree	4		30	Leaving Cert & Music Exam 790	Leaving Cert & Music Exam 780	6	2	(Ref.1)	D3 (O/H)	✔ (Ref.2)			✔	✔

Ref.1 No requirement for Mathematics. A Grade B2 or higher in Foundation Level Mathematics is recognised as a subject for CR 121 and is awarded points as follows: Grade/Points A1/20; A2/15; B1/10; B2/5.
Ref.2 CSM BMus (Honours) Degree Entrance Exam
Ref.3 Students may be required to undergo Garda Vetting depending on module choice in Year 3 and 4.

* Restricted Application / Early Assessment

NOTE: Round 1 Points 2010 can be found inside the back cover.
Number of First Year Places may change.



Nora Buttimer

cit crawford college of art & design

Fine Art and Ceramic Design
@ Sharman Crawford Street

CAO Courses

Level 8
CR 220 Fine Art and Ceramic Design
Honours Degree Award options:
BA (Honours) in Fine Art or
BA (Honours) in Ceramic Design

Postgraduate Programmes

Higher Diploma in Arts for Art & Design Teachers
MA in Art Therapy (Bishopstown Campus)
MA in Art & Design Education
MA in Teaching Visual Arts for Primary & Early Years Education
MA (by Research)
PhD

Media Communications
@ Bishopstown Campus

CAO Courses

Level 8
CR 112 BA (Honours) in Multimedia
CR 600 BA (Honours) in Visual Communications

Postgraduate Programmes

Higher Diploma in Arts in Public Relations
MA in Media Design
MA in Public Relations with New Media
MA by Research

Introduction

The Crawford College of Art & Design is a constituent college of Cork Institute of Technology, providing education in the arts for over 200 years. The Department of Fine Art and the Department of Art & Design Education are based at the Sharman Crawford Street campus, offering programmes in Fine Art, Ceramics and Art Education. The Department of Media Communications and the Department of Art Therapy are based at CIT Bishopstown.

The Department of Media Communications became part of the Crawford College in January 2010.

Fine Art and Ceramic Design

@ Sharman Crawford Street

The CIT Crawford College of Art & Design (CCAD) is an exciting, creative college, where making art is a passion shared by students and staff. Our reputation in the visual arts is excellent. Crawford graduates are among Ireland's top artists and art teachers. Studying at the Crawford is a challenging and rewarding experience, which we hope you will enjoy. Cork has a long and distinguished connection to the visual arts, with many artists and designers living and working in Cork city and county. Many of these artists and designers are graduates of the CCAD who have sustained links to the College. There are a number of very fine art galleries in the city, including the Crawford Art Gallery, Lavit Gallery, Glucksman Gallery and the Triskel Art Centre. Cork is also home to the National Sculpture Factory, the Backwater Artists' Studios, Cork Printmakers Workshops, and the Cork Artists' Collective. A number of emerging artist initiatives is also growing, including Cork Contemporary Projects, Art Trail and the Basement Project Space. These creative centres, along with the working artists and students of the CCAD, make the city a very vibrant artistic community.

The Honours degrees in Fine Art and Ceramic Design are offered in the Department of Fine Art at the Sharman Crawford Street campus. Facilities on this campus include studios with personal work spaces for all students, and well-equipped workshops including ceramics, metal and wood fabrication, stone carving, foundry, photography, film and video, digital media, etching, lithography, silk screen and relief printmaking, textiles and stained glass. The library houses over 12,000 volumes, 45 periodicals and newspapers, and over 30,000 slides.

Jennifer Marshall

Visual Communications & Multimedia

@ the Bishopstown Campus

The Honours degrees in Visual Communications and Multimedia are offered on the Bishopstown campus in the Department of Media Communications. In recent years this department has grown significantly from its origins in commercial print training to become a premier provider of visual design and media education in the South of Ireland. Facilities are of a high standard and include drawing and photographic studios, computer labs for digital image processing, DTP, video and 3D animation as well as traditional offset and silk screen printing equipment, and up to date industry standard software. All courses maintain close links to industry involving ongoing consultation with design and media professionals ensuring that courses are targeted to 'real world' needs and that graduates are both highly trained and eminently employable.

Postgraduate Programmes

The College offers opportunities in research in Fine Art at Masters level, plus taught Masters in Art Therapy (available on a full-time or part-time basis), Masters in Arts in Media Design and Masters in Arts in Public Relations with New Media, as well as an art teacher training course, Higher Diploma in Arts for Art & Design Teachers. Two Masters programmes have recently become available in the art and design education area: the MA in Art & Design Education, and the MA in Teaching Visual Arts for Primary and Early Years Education (See http://media.cit.ie for details of these Masters programmes).

International Links

The College actively participates in the ERASMUS student mobility programme, and exchanges have taken place with colleges in the UK, the Netherlands, Portugal, Italy, Denmark, France, Germany, Spain and Finland. The College welcomes mature students and receives many applications from overseas.

Admission Procedures and Guidelines for CR 220 Fine Art and Ceramic Design (Honours)

Entry to CR 220

CR 220 is the gateway to two honours degree options. All candidates for the Bachelor of Arts (Honours) in Fine Art or the Bachelor of Arts (Honours) in Ceramic Design should apply to CR 220. Students share a common first year and in Year 2 choose which honours degree programme they wish to study.

A special points system operates for admission to CR 220. This involves aggregating the points scored for the Leaving Certificate and for the Portfolio. Points are awarded out of 600 using the normal CAO points system applied to six subjects. A further 600 points are available for the Portfolio, making a total of 1200 maximum. A minimum of 240 points must be obtained in the portfolio.

Portfolio

Fine Art and Ceramic Design Portfolio candidates are required to present their portfolios in person to the College; individual dates and times for presentations will be notified in advance by post. Assessment will be conducted by personal presentation of portfolio. All offers will be made via the CAO system in August.

The portfolio should demonstrate the applicant's visual interest and area of concern. There is no restriction on the amount of work presented, but consideration should be given to selection, evaluation and presentation, and should also display the full range of materials and processes engaged in. There are a few points to avoid. For example, don't weigh the portfolio down with card and glass. Mounting is unnecessary - clean sheets of paper to separate the work are sufficient.

Do not pack the portfolio with paintings or drawings copied from originals or from photographs. Even if it looks very slick, it only demonstrates a mechanical copying facility, and it is better to include more personal work. However, incorporating images from other sources in a composite piece and using information from photographs or magazines in research is a valid practice. The distinguishing factor is that the end product in this case is an original image which uses other images, not a direct copy of one of them.

Don't leave out sketchbooks and preparatory studies. These support the finished pieces.

There is no 'standard' portfolio, not least because the range of background, experience and access to resources among applicants is very broad. A portfolio prepared by someone on a full-time dedicated course will be very different to one prepared by someone studying 5 other subjects as well as Art for Leaving Certificate. Someone who has to deal with family and work commitments (and there is a small but significant number of mature students in every intake) will produce a portfolio which needs to be evaluated on a different basis to either of the other two.

Although a large number of students enter the College direct from school, the experience of a good, well structured Portfolio Preparation Course can make a crucial difference in the ability of candidates to handle the transition to third-level successfully.

When looking at work produced on these courses, it is clear how the students experience of Art and Design media and practice has been extended, allowing them to develop ideas and projects over full working days. Compared to the maximum double period possible in the second-level timetable, this is helpful in the adjustment to studio practice in Art College. However, some of the most impressive work presented at interview has been by second level and mature applicants.

Whether applying for Fine Art or Ceramic Design, drawing should form a central part of the work in the portfolio.

Objective Drawing

Objective Drawing, using marks and materials appropriate to the feature of the object which is being examined, is important as it demonstrates the use of drawing to analyse and explain as well as to record.

Objective Painting

Objective Painting showing colour observation and mixing is also important and although it is easier to achieve this with paint, exciting objective work can be done incorporating found colour in the form of collage as well as dry media like pastel to supplement the paint. The quality of the observation, the sensitivity of the mark-making, and the use of media are more significant than the choice of media.

3D

Not every school provides the opportunity to carry out 3D work, however all Year 1 students at the Crawford execute 3D projects, so any work showing making skills and experience is worth including in the portfolio. Photographs showing the object from a few viewpoints with something included to indicate the scale of it are fine. It is not necessary to bring the object itself, and considering that furniture, stage sets and whole garden features have appeared at one time or another, often not even possible.

Ideally, any 3D work included should show that the object has been considered in the round and that the visual and practical problems of making it have been approached inventively. Clay is the material which is most available for building, but it is good to see the possibilities of other materials explored. In fact, it is important to see signs that the media used, whether 2D or 3D, have been experimented with and enjoyed, another reason for including preparatory studies and sketchbooks. Print, Photography, Computer Graphics and other media which require planning and control of a process to produce an image successfully are good ways of demonstrating practical ability too.

Sketchbooks and Visual Diaries

Placing sketchbooks containing experiments and rejected ideas as well as work that made it to a finished piece in front of interviewers might seem like a difficult thing to have to do, but personal work including sketchbooks and visual diaries show what excites and engages them more clearly than course work does. All of the work presented will give an interviewer an idea of a students approach to work, their level of skill and experience and their ability to research and develop an idea visually. Exactly how that is expressed in personal work is a useful indication of where their strengths may lie.

Please note that the application procedure and assessment for the Honours Degrees in Fine Art and Ceramic Design in the CIT Crawford College of Art & Design is independent and distinct from those in the Department of Media Communications.

Fine Art and Ceramic Design (Honours) > Common Entry

Level 8 CAO Code	Admission Requirements	Enquiries
CR 220	Leaving Certificate in six subjects, including either English or Irish, and including at least two C3s at Higher Level. A Portfolio is also required. There is no specific Mathematics requirement. Grade B2 or higher in Foundation Level Mathematics is recognised as one of the subjects (see Yellow Pages in this Handbook).	Kevin Gill CIT Crawford College of Art & Design T: 021 433 5242 E: kevin.gill@cit.ie

AWARDS

Bachelor of Arts (Honours) in Fine Art
Bachelor of Arts (Honours) in Ceramic Design

Please note that application procedure and assessment in the Department of Fine Art & Ceramic Design at the CIT Crawford College of Art & Design is independent and distinct from those of the Department of Media Communications (Bishopstown Campus).

Students in CR 220 share a common first year and in Year 2 choose which honours degree programme they wish to study.

CR 220	CAO Points 2009
Round 1 Points	780
Final Points	780

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Art

About Fine Art and Ceramic Design

Fine Art
The Fine Art programme provides a studio based education in Fine Art, with emphasis on personal creative development. Fine Art describes any art form developed primarily for aesthetics or concept rather than utility. Students are introduced to the skills and philosophies of the practicing artist, and the course prepares them for active careers in the visual arts or for further study to Masters degree level.

Fine Art offers a series of very varied career paths. The course aims to instill individualism and independence. Graduates may build careers as practising artists. Other careers include teaching, photography, multimedia and crafts, and students may find employment in art criticism, as exhibition organisers and art handlers, in foundries, and as technicians and craft assistants.

Graduate **Profile**

Ailbhe Ní Bhríain

Ailbhe was awarded a BA (Honours) in Fine Art from the Crawford College of Art and Design. She completed an MA in the Royal College of Art in London and afterwards lectured in Fine Art at Kingston University, UK, for two years. Ailbhe enjoyed the quality of tuition and interdisciplinary freedom of the CCAD. She completed a PhD in Fine Art in 2008 and currently lecturers at the NCAD. Ailbhe exhibits widely both nationally and internationally. Her most recent solo show was at the Butler Gallery, Kilkenny.

Brigid Delahunty

Fine Art and Ceramic Design (Honours) > Common Entry

Ceramic Design
The Ceramic Design programme provides a workshop-based education in Ceramic Design, with the emphasis on personal creative development. Students are introduced to the skills and philosophies of the practising ceramist, and the course prepares them for active careers in ceramic design or for further study to Masters degree level.

Careers in Ceramic Design are focused primarily on ceramic and pottery production. Individualism, independence and problem solving are well developed skills in the Ceramic Design student.

Graduates may build careers as practicing ceramists. Other careers include teaching, multi-media and crafts, and students may find employment in art criticism, as exhibition organisers and art handlers, in commercial potteries, and as technicians and craft assistants.

Further Studies
For details, see www.cit.ie

Qualified Honours Degree graduates are eligible to apply for admission to
- → Higher Diploma in Arts for Art & Design Teachers.
- → Master of Arts in Art & Design Education
- → Master of Arts in Teaching Visual Arts for Primary and Early Years Education.

Graduates who have also completed a foundation level course in Art Therapy are eligible to apply for admission to
- → Master of Arts in Art Therapy.

Graduates are also encouraged to continue their studies at postgraduate level to MA and PhD.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Drawing 1
Introduction to Art History 1
Formal Visual Elements 1
Group Elective
Introduction to Art Processes 1

SEMESTER 2
Introduction to Art History 2
Art in Context 2
Fine Art Studio 2
Group Elective
Introduction to Art Processes 2

Graduate **Profile**

Martha Cashman

When Martha Cashman completed her Leaving Certificate, she went to the USA and began a career in Interior Decorating. Martha ran a successful business in the USA for many years, returning to Cork to study the BA (Honours) in Ceramic Design at the CCAD, graduating in 2007. She won the Scarva Prize and the UCC Purchase Prize.

Martha completed a Business course and has developed her fine art work for the Gift Market. Martha won the Essence of Ireland Award in January 2009 at the RDS, and is currently working towards exhibitions in Ireland and the USA.

Hannah Phelan

Multimedia (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 112	At least two Leaving Certificate subjects at Grade C3 minimum (Higher Level), together with a further four subjects at Grade D3 minimum (Ordinary or Higher Level). The six subjects must include Mathematics and either English or Irish.	Trevor Hogan Department of Media Communications T: 021 432 6792 E: trevor.hogan@cit.ie

AWARD

Bachelor of Arts (Honours) in Multimedia

Please note: Multimedia CR 112 is based in CIT's Bishopstown Campus.

CR 112	CAO Points 2009
Round 1 Points	325
Final Points	325

Full-time course duration

4 Years (8 Semesters)

Helpful Leaving Certificate subjects

Art, Music, and English.

About Multimedia

Multimedia combines the creativity of art and design with the skills and knowledge of computer technologies and programming to create interactive digital media products such as websites, CD ROMs and DVD's.

The course is designed to foster a range of interests and abilities including art, design, music, technology and computing. The course places particular emphasis on individual and team based projects. Students learn how to integrate the various skills and competencies required to produce effective multimedia products.

An unique aspect of this course is its joint delivery with the University of Applied Sciences in Darmstadt, Germany. Since the same course is delivered through English in both CIT and Darmstadt, students can choose to undertake some of their studies in either centre with ease. The Joint Award is internationally recognised and accredited by CIT and the University of Applied Sciences in Darmstadt.

Some graduates are involved in design with particular emphasis on web and multimedia design while others are involved in video production. All graduates will be comfortable working as part of a multi-disciplinary team, managing projects and possibly starting their own business. Areas of specialist employment include e-Learning, games development, interaction design, 3D design and animation, interactive programming and audio technology. Starting salary (general guideline only): €24,000 - €28,000.

Further Studies

For details, see www.cit.ie and http://media.cit.ie/mamediadesign

- → MA in Media Design
- → MA in Public Relations with New Media

Module Information

http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1

Creativity, Innovation & Teamwork
Design Basics - Still Image
Moving Image & Sound
Basics of Digital Media Technology
Basics of Computer Science
Business & Enterprise Communications

SEMESTER 2

Media Project 2
Digital Media Technology
Scripting
Media & Culture Studies
Elective Group (Choose 1)
Interface Design
Film Language
Elective Group (Choose 1)
Time Based Media Design
Animation Principles

Graduate **Profile**

Rebecca Le Blanc
SENIOR MEDIA DEVELOPER

"For my final year project, my team and I developed a suite of multimedia resources to aid primary school teachers deliver curriculum on health and safety in the home. I became very interested in the area of e-Learning and how technology can be used to deliver training and information. I am now a Senior Media Developer with ThirdForce, one of the world's leading e-Learning providers. My work involves creating online e-Learning courses for schools, training centres, government agencies and retail companies both in Ireland and abroad. I have used and improved the skills I acquired during my Multimedia honours degree course. I am now also the Production Team Trainer and have travelled to ThirdForce offices all over the world to share my skills."

Visual Communications (Honours)

Level 8 CAO Code	Admission Requirements	Enquiries
CR 600	Leaving Certificate in six subjects, (including English or Irish), two of which must be at least Grade C3 at Higher Level, **plus** portfolio. There is no specific requirement for Mathematics. Grade B2 or higher in Foundation Level Mathematics is recognised as one of the subjects.	Rose McGrath, Department of Media Communications T: 021 432 6226 E: rose.mcgrath@cit.ie

AWARD

Bachelor of Arts (Honours) in Visual Communications

Please note that application procedure and assessment in the Department of Media Communications (Bishopstown Campus) is independent and distinct from those in the Department of Fine Art and Ceramic Design at the CIT Crawford College of Art & Design.

Please note: Visual Communications CR 600 is based in CIT's Bishopstown Campus.

CR 600	CAO Points 2009
Round 1 Points	605
Final Points	605

Full-time course duration
4 Years (8 Semesters)

Helpful Leaving Certificate subjects
Art and English.

Admission Requirements
Admission will be by portfolio as well as Leaving Certificate points. See Portfolio guidelines at the end of this section.

About Visual Communications
This honours degree course aims to equip students with the skills required to work as visual designers at an independent and professional level. The course aims to develop each student's ability to respond to visual design problems in an individual, inventive and creative manner. Students will develop their knowledge of the design process, production techniques and the professional business environment.

This course contains academic components, which are designed to develop the students' knowledge and understanding of their chosen area of specialisation. Through the writing of a thesis, students learn the skills of academic research, argument construction, written communication and presentation, which will assist them in progression to postgraduate study or in their subsequent careers as visual designers. Starting salary (general guideline only): €24,000.

Accreditation
This course is fully accredited by Institute of Designers of Ireland.

Further Studies
Suitably qualified graduates eligible to apply for:

→ Higher Diploma in Arts for Art & Design Teachers

and may be eligible to apply for:

→ MA in Public Relations with New Media.

Module Information
http://modules.cit.ie

CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

First Year Modules

SEMESTER 1
Creativity, Innovation & Teamwork
Design Principles & Practice 1
Creative Image Making 1
Contextual Studies 1
Introduction to Printing
Photography and Image Capture

SEMESTER 2
Design Principles & Practice 2
Creative Image Making 2
Typography 1
Creative Technology 1
Introduction to Visual Culture
Electives (Choose 1)
Print Making
Free Choice Module

Graduate **Profile**

Paul Gately
GRAPHIC DESIGNER

"Throughout the Visual Communictions course, I was encouraged to explore my creativity, to push the boundaries, visualise my ideas, rationalise and present them, all of which are essential skills to have as a designer. The course was very hands-on and self initiated, which proved to be a really enjoyable learning environment, everyone got stuck in and we all learnt by experience".

Admission Procedures and Guidelines for CR 600 Visual Communications (Honours)

Admission to the BA (Honours) in Visual Communications (CR 600) is by portfolio assessment AND Leaving Certificate points. There will be a maximum of 600 points available for Portfolio and 600 points for the Leaving Certificate. Applicants should apply in the normal way through the CAO by February 1st, after which they will receive an invitation to submit their portfolio for assessment. This assessment will take place in April (exact dates will be notified to all applicants by post). Marks allocated to the portfolio will be communicated to the CAO and to the applicant before the end of June. When the Leaving Certificate results become available the CAO offers process will continue in the usual manner.

In order to be considered for a place on the course, applicants must satisfy the minimum academic requirements. All assessment will be carried out by portfolio assessment only; there will be no interviews. All offers will be made via the standard CAO system in August.

Please note that application procedure and assessment in the Department of Media Communications (Bishopstown Campus) is independent and distinct from those in the Department of Fine Art and Ceramic Design at the CIT Crawford College of Art & Design.

Portfolio - Delivery & Collection

All work must be contained within a secure art portfolio that is clearly labelled with your name and address, contact phone number and your correct CAO number.

Each individual artwork must be clearly labelled on the reverse, if desired, with your correct CAO number. Applicants are responsible for delivery and collection of portfolios. Full details for portfolio submission including delivery and collection dates will be notified to all applicants by post. Portfolios not collected within a reasonable time period are subject to being discarded.

Portfolios may be posted or shipped to the Department of Media Communications, CIT. However, the Department cannot be responsible for wrapping and return shipping. Each portfolio submitted shall be issued with a receipt; this receipt MUST be retained and used for collection of the portfolio after assessment.

Portfolio Format

Your portfolio can vary widely from an A3 zipped case to an A0 card folder. In selecting a folder consider which format best suits your work. While the quality of the work is the main issue, the way it is presented does have an impact. Remember that in order to avoid the possibility of loss or damage to work the portfolio must be capable of securely containing all of your work. While we will accept work on CD or DVD these formats are not always the best way to experience the real qualities of a given piece - drawings, paintings and prints usually need to be viewed in original form to properly appreciate their qualities especially in regard to colour, mark-making, texture, etc. If you wish to include time-based works such as animations, video, etc., they should be no longer than 5 minutes in total.

Portfolio Contents

The contents of the portfolio MUST be your own original work, if collaborative pieces are included this must be clearly stated and your input explained. The portfolio must be attested to by the School Principal or Art Teacher or another responsible person (not a relative), as being the applicant's own work. Design or graphics produced on a computer may be included but should not represent more than 1/3 of the total number of works shown. The typical portfolio might include from 6 – 10 finished pieces with supporting sketches and ideas sheets, no more than 15 finished pieces is recommended.

- Drawing including drawing from direct observation
  Observational drawings should indicate the relationship between the subject and its environment. Drawings must be originals, not copies or drawn from any photographic source. Any pastel or charcoal drawings must be treated with permanent fixative. Colour work demonstrating observation, colour mixing and experimentation.

- Sample works of a graphic design nature
  These might be a graphic logo, a visual for t-shirts, a poster for an event, a package for a CD design. The work must be original, in black and white or colour. These works will demonstrate your design, layout and type/lettering skills.

- Sketchbook and visual diaries
  Your portfolio should include sketchbooks/work sheets displaying ideas, visual research and/ or preparatory works demonstrating your working process and visual interests.

- 3D work
  Only photographic representations of three dimensional work will be accepted. Two views of each object are suggested to ensure full evaluation. Do not send the original art works.

Do NOT include any of the following:

- Material older than two years.
- Work framed behind glass.
- Copies of any other person's work.
- Drafting or technical drawings, either done by hand or CAD.
- Cartoon or comic material copied from other sources.
- Craft work, such as pottery, woodwork or weaving.

Portfolio Assessment Guidelines

We like to see a personal portfolio that displays evidence of your visual interests, abilities and potential. The artwork in the portfolio should demonstrate a high level of creativity, visual skill and conceptual development.

Ideas & Investigation

The artwork should exhibit your ability to take an idea and explore it in an open and inventive manner. The investigation of ideas as displayed in drawings, sketches and worksheets is an essential way of demonstrating your thinking and working process and is as important as finished works.

Practical Skills & Abilities

Demonstrate the ability to utilise drawing as a means of visual documentation, analysis and communication. There should be sufficient evidence of your competence in a range of media and processes. Examples of finished work should display your ability to explore ideas.

Presentation

Artworks must be presented in a clear, clean and organised manner. Work should be clearly labelled and arranged in a logical and easily accessible manner. Selection of work should eliminate repetition and unnecessary 'padding'.

Ideally, your portfolio will demonstrate the excitement and enjoyment of image making, remember it's a creative process that should be enjoyed. We wish you well in putting it together and look forward to viewing it – Good Luck!

CIT Crawford College of Art & Design Master Chart

Course Code	Course Name	Page No.	Initial Award	Duration in years	Higher Certificate Step-off Available	No. of 1st Year Places	Round 1 Points 2009	Final Points 2009	MINIMUM ENTRY REQUIREMENTS: No. of Subjects D3 (O/H)	No. of C3 (H) Grades	Maths Grade	English or Irish Grade	Early Assessment Procedures	INITIAL AWARD & PROGRESSION OPPORTUNITIES AT CIT: Higher Certificate	Bachelor Degree	Honours Bachelor Degree	Post Grad
CR220	Fine Art and Ceramic Design*	113	Honours Bachelor Degrees	4		60	Leaving Cert & Portfolio 780	Leaving Cert & Portfolio 780	6	2	(Ref.1)	D3 (O/H)	✔ (Ref.2)			✔	✔
CR600	Visual Communications*	116	Honours Bachelor Degree	4		40	Leaving Cert & Portfolio 605	Leaving Cert & Portfolio 605	6	2	(Ref.1)	D3 (O/H)	✔ (Ref.2)			✔	✔
CR112	Multimedia	115	Honours Bachelor Degree	4		20	325	325	6	2	D3 (O/H)	D3 (O/H)				✔	✔

Ref.1 No requirement for Mathematics. A Grade B2 or higher in Foundation Level Mathematics is recognised as a subject for CR220 and CR600 and is awarded points as follows: Grade/Points A1/20; A2/15; B1/10; B2/5.

Ref.2 Portfolio required. Please note the application procedure and assessment of CR600 is independent and distinct from CR220.

* Restricted Application / Early Assessment

NOTE: Round 1 Points 2010 can be found inside the back cover.
Number of First Year Places may change.

yellow **pages**

Detailed Information on Application for Study at CIT

(Please refer also to the "Basics" section at the start of this Handbook)

Detailed Information on Application for Study at CIT

How to Apply

In this section you will find information on how to apply for the full time course of your choice.

- For all first year undergraduate full-time courses in CIT, you should apply through the Central Applications Office (CAO).
- For other courses see 'Direct Entry Courses'.

CAO

For all first year undergraduate full-time courses on offer through the CAO:

You should follow the procedures as laid down in the CAO Handbook 2011. Copies are distributed by CAO to second level schools in Ireland. The CAO Handbook may be accessed online at www.cao.ie; copies are also available on request from:
Central Applications Office,
Tower House,
Eglinton Street,
Galway.
Telephone: 091 509 800
Fax: 091 562 344
Web: www.cao.ie

CAO Closing Date

The CAO's normal closing date is 1st February 2011. This applies to Irish, EU and non-EU students. Whether you are applying through the CAO by post or on-line, CIT strongly urges you to get your application to CAO well before the deadline to avoid stress and possible disappointment.

Late Applications

Late Applications are those which are received by the CAO after 1st February 2011. The latest date for receipt in the CAO of such application forms is 1st May 2011. Late applicants are required to pay an additional fee. Late applications can be made for all courses up to 1st May 2011, except courses with early assessment procedures, including:

- CR 220 Fine Art and Ceramic Design (portfolio required)
- CR 600 Visual Communications (portfolio required)
- CR 121 Music (music entrance exam).

Exceptional closing date for current third level students 22 July 2011 5.15pm.

Subject to the usual conditions for late applications, if you are currently a student in any year in any higher education institution, you may make a Late Application, in paper form only, to arrive in CAO not later than 5.15pm on 22nd July 2011. The CAO Form must be stamped on Page 2 by the Admissions Office of the institution where you are a student.

Change of Mind

The CAO system allows changes to be made to applications up to 1st July 2011. A Restricted Application course cannot be added to your CAO application after 1st February 2011. You may, however, alter your preference ranking for such courses.

Exceptional closing date for current third level students 22nd July 2011 5.15pm.

Subject to the usual conditions for Change of Mind, if you are currently a student in any year in any higher education institution, you may submit a Change of Mind, in paper form only, to arrive in CAO not later than 5.15pm on 22nd July 2011. The Change of Mind Form must be stamped by the Admissions Office of the institution where you are a student.

Direct Entry Courses

For certain courses, application is made directly to the Institute and not through the CAO. This applies to the following:

- All honours bachelor degree courses which follow on from a bachelor degree.
- Levels beyond the first year of a course.

Closing Date for direct entry for the above courses: 1st June 2011.

Applicants for the following courses should contact the relevant Department for information concerning application procedures and closing dates.

- Part-time courses
- Higher Diploma in Arts for Art & Design Teachers - CCAD
- Post-Graduate Studies (Masters, Doctoral, etc)
- Higher Certificate in Nautical Science at NMCI
- Educational Opportunities Department Courses
- ACCS courses
- BA in Community Development.

Application Forms for direct entry to these courses are available from: Admissions Office, Bishopstown Campus or CIT Crawford College of Art & Design, CIT Cork School of Music or National Maritime College of Ireland (as appropriate).

Copies of any qualifications, transcripts of results and other relevant documentation should be included with the application. Applicants awaiting examination results should ensure that these are forwarded to the Admissions Office as soon as they become available.
The Admissions Office,
Cork Institute of Technology,
Bishopstown, Cork.
Tel: 021 4326 141/769
E-mail: admissions@cit.ie

Entry Requirements

For admission to a course, standard applicants must

- **score the necessary CAO points** *and*
- **meet the minimum entry requirements. These requirements may be altered for certain categories of applicant; see "Non- Standard Applicants".**

The CAO Points System

Standard applicants for first year courses will be awarded points by applying the points scale in the table below to the results obtained in the Leaving Certificate Examination. This is the normal CAO points scale. The SIX best results in one sitting of the Leaving Certificate examination will be used for points calculation. Applicants are reminded that the points required for a course vary each year according to supply and demand for places. Please note that meeting the minimum entry requirements is a separate matter to the calculation of CAO points.

Leaving Certificate Grade	Higher Paper Points	Ordinary Paper Points
A1	100	60
A2	90	50
B1	85	45
B2	80	40
B3	75	35
C1	70	30
C2	65	25
C3	60	20
D1	55	15
D2	50	10
D3	45	5

Random Selection

Under the CAO scoring system, it is sometimes necessary to allocate the remaining places on a course among applicants who have equal CAO points. To ensure fairness, this is carried out by the CAO on the basis of randomly assigned numbers.

Early Assessment Procedures for CAO Courses

CIT Crawford College of Art & Design
(Fine Art and Ceramic Design (Honours) CR 220)
Applicants will be required to present a portfolio of work in addition to having the minimum entry requirements detailed in the course information. Further details of the procedures, subject requirements and points scale are in the course information for the CIT Crawford College of Art & Design in this Handbook.

Visual Communications (Honours) CR 600
Applicants are required to present a portfolio of work in addition to having the minimum entry requirements detailed in the course information. Further details of the procedures, subject requirements and points scale are in the course information section under Visual Communications in this Handbook.

CIT Cork School of Music
BMus (Honours) CR 121
This is a Restricted Application Course and all applicants must sit the CIT Cork School of Music (CSM) Honours Degree Entrance Exam (provisionally scheduled for 9th April 2011). This involves performance, aural and sight-singing tests, and a written paper dealing with rudiments, compositional techniques [harmony] and general musical knowledge. Normally, applicants should have reached at least Grade VI on their Principal Instrument. Further details of the procedures, subject requirements and supplementary points allocated for the Entrance Exam are in the course information section for the CSM in this Handbook. For further information please contact the Admissions Office at CIT and check the CIT website at www.cit.ie

Minimum Entry Requirements

Full details of minimum entry requirements for courses are outlined in the relevant course information section of this Handbook. In particular, there are early assessment procedures for some courses. Applicants are advised to check the relevant subjects, tests and dates very carefully. See also the "Basics" section at the front of the handbook.

Deferring a Place

The Institute will try to facilitate successful applicants who wish to postpone entry. The recommended procedure is as follows:

1. Applicants should not accept the offer through the CAO;
2. The applicant receiving the offer should write immediately to the Admissions Office, CIT, so that the letter arrives not later than two days before the reply date for the offer, seeking a deferral and setting out the reason for the request. The applicant should enclose with the letter, Part C of the Offer Notice.

Detailed Information on Application for Study at CIT

Non-Standard Applicants

Special Category (Non-Standard) Applicants

Certain applicants may be assessed on a basis different from the CAO Points System. These are called Special Category or Non-Standard Applicants. There are several categories, and these are detailed on Page 3 of the CAO Application Form. If you wish to be considered as a special category applicant you should tick the relevant box on Page 3 of the CAO form.

CIT welcomes applications from Special Category Applicants and those who wish to be considered as such should fill out the appropriate section of the CAO Application Form. In addition, applicants may be invited for interview for some courses. Special Category Applicants are of course entitled to be assessed on the same basis as any other applicant on the basis of points achieved. This means that Special Category applicants will be credited with the Leaving Certificate points that they may have obtained.

Late Applications (Special Category)

CIT will accept applications from Special Category Applicants up to 1st May, except for mature applicants and applicants for courses which have early assessment procedures. All such applications should be made through the CAO in the first instance.

The principal special category types of applicant are as follows:

Mature Students

To be eligible under this category, applicants must be 23 years old by 1st January of the proposed year of entry. Mature students should fill out the appropriate section of the CAO Application Form. Such applicants may not be required to have the minimum entry requirements. Relevant work experience, skills gained through experiential learning and other qualifications will be considered in the assessment of these applications. Mature Students cannot submit a late application.

Applications from Mature Students must be made to the CAO before the 1st February.

GCE/GCSE

This category includes GCE A-Level and AS Level, and GCSE/OLevel.

Other School-Leaving Exams

The CAO form has a section for the description of other school leaving exams, including those obtained outside Ireland.

Further Education (see also the FETAC section)

(a) FETAC/NCVA qualifications achieved in 1999 or earlier.
(b) Students holding National Craft Certificate, Senior Trades or NTCB qualifications (for example) may be considered for entry to a course related to the qualification.
(c) Post-Leaving Certificate (non FETAC) qualifications may be considered and will be assessed individually.

Higher Education

(Institutes of Technology, Universities, Colleges of Education etc.)
The CAO form has space for details of such study.

Supporting Access

CIT's Access Office works with groups who are under-represented in higher education such as

- Students who are socio-economically disadvantaged;
- Students with disabilities;
- Mature students;
- Members of the traveller community and ethnic minority students.

The Access Office organises supports such as information sessions, school visits, parents' information sessions, student shadowing, induction programmes, the Mature Student Support Network and financial assistance.

Contact
Deirdre Creedon
Access Officer
T: 021 433 5140
E: deirdre.creedon@cit.ie

Progression Scheme for CIT linked schools

This is an Access initiative for students from CIT linked schools. Students from linked schools can apply for entry onto programmes of study in CIT commencing September 2011.

The Progression Scheme is a supplementary admissions scheme to CIT for school leavers from 9 Cork City Schools. CIT has had links with these schools through the CIT Access Service for over 15 years. Cork Institute of Technology will make available 30 places for Progression Scheme participants. Successful applicants will be given the opportunity to apply for programmes of study in CIT on a reduced points basis. The Institute will provide post entry support for the participants in the form of induction and orientation, academic supports, educational guidance and, where possible, financial assistance. For more information on the scheme and the participating schools, please contact:

Louise Bermingham
Projects Officer
T: 021 433 5139
E: louise.bermingham@cit.ie

Student Assistance Fund

The Student Assistance Fund provides financial assistance for full time CIT students who are experiencing financial difficulties whilst attending college. Students can apply for Student Assistance to help them with either temporary or ongoing financial difficulties. The Student Assistance Fund provides a further source of funding for higher education students in addition to schemes such as the Maintenance Grant.

The Student Assistance Fund is funded by the Irish Government and part-funded by the European Social Fund under the Human Capital Investment Operational Programme 2007-2013.

For more information on student finance, check out www.studentfinance.ie. For information on the Student Assistance Fund in CIT, please contact:

Deirdre Falvey
Student Services
T: 021 432 6453
E: deirdre.falvey@cit.ie

Mature Students

Cork Institute of Technology strongly encourages applications from mature candidates and is continually working towards wider entry routes in order to increase participation of adult learners. There is a wide variety of courses from Level 6 to Level 10 for Mature Students to choose from within CIT.

In order to be considered as a mature student you must be aged 23 years or over on the 1st January of the year of entry. You must then indicate on your CAO application form that you wish to be considered as a mature student.

CIT has a full time Mature Student Project Officer who provides support to prospective and registered Mature Students.
Pre-entry support for prospective Mature Students includes:

- Information Sessions;
- Further Education Links;
- Community Presentations;
- Assistance with applications.

The Mature Student Support Network provides a range of supports to registered students including the following:

- Orientation and Welcome Lunch for Mature Students;
- Study skills sessions;
- Workshops on Exam techniques, Improving your writing skills, Stress management;
- Mathematics support sessions (delivered by the Learning Support Centre);
- Information on financial supports;
- One-to-one support.

Contact
Sinéad O'Neill
Mature Student Project Officer
T: 021 433 5109
E: sinead.oneill@cit.ie

Student Induction Programme

Each year the Access Office organises an Induction and Orientation Programme for First Year students. Existing students of the Institute are recruited and trained as Student Leaders. At Registration and during the first week on campus, Student Leaders assist Freshers by giving them information on student supports and services, giving them a tour of the campus facilities, and generally helping them to settle in.

Contact
Louise Bermingham
Projects Officer
T: 021 433 5139
E: louise.bermingham@cit.ie

CIT Disability Support Service

The aim of the Disability Support Service in CIT is to encourage the participation and access of students with disabilities into third level education. CIT offers a very person centred approach to providing support to students with disabilities, recognising that each student will have different needs. Our service tries to accommodate each student on an individual needs basis. In order to develop this approach to meeting students needs as efficiently as we can; we would urge the students that need to use the service to make contact with the Disability Support Officer as early in the academic year as is possible.

CIT is committed to a policy of equal opportunity in education and to ensuring that students with a disability have an equal access to education at third level as is reasonably possible to provide to them. Every student with a disability has the right to reasonable and appropriate accommodations determined on an individualistic basis in accordance with the students certified disability.

The Disability Support Service in CIT operates a strict confidentiality policy and all students' records and disclosure of information will only occur with the students consent.

Funding Support

There is a fund for students with disabilities. The fund provides assistance and equipment to enable them to access, participate and to complete their chosen studies. Students attending full time courses in CIT are eligible to apply to the fund. Applications to the fund are made on behalf of an eligible student by the Disability Support Officer following an assessment of need. Applications cannot be made directly to the fund by students.

This fund is for a person with a disability, and who has specific support needs. The definition of disability commonly accepted is: A student is disabled if he/she requires a facility which is outside of the mainstream provision of the college in order to participate fully in higher education and without which the student would be educationally disadvantaged in comparison with their peers.

Students who generally apply for funding are students who are or have:

- Hard of Hearing/Deaf
- Visual Disability/Blind
- Specific Learning Difficulties
- Physical Disability
- Medical Disability
- Mental Heath difficulties

The Disability Support Officer is also responsible for the management of the funding approved for eligible students.

The Fund for Students with Disabilities is funded by the Irish Government and part-funded by the European Social Fund under the Human Capital Investment Operational Programme 2007-2013.

Supports Available

There are a number of different categories of support that can be offered to students with disabilities in the form of:

- Personal assistants;
- Sign language interpreters;
- Note takers;
- Speed text/Stereotype operators;
- Photocopying;
- Additional tutorial support;
- Assistive Technology;
- Alternative Media Formats;
- Open Access Lab;
- Liaise with Academic staff on behalf of or with students (with consent).

Examination Supports

The Disability Support Service liaises with the Examinations Office to provide exam support to students with disabilities at exam times – be it end of semester exams or in-class examinations.
Some exam supports available include the following;

- Provision of a scribe;
- Provision of a reader;
- Extra time (usually 10 minutes per hour);
- Access to assistive technology.

Contact
Laura O'Rourke
Disability Support Officer
T: 021 433 5107
E: laura.orourke@cit.ie

Recognition of Prior Learning (RPL)

CIT has a process which allows you to get recognition for what you already know relevant to a particular programme of study. Your 'prior learning' can be what you have learned in training programmes, in courses or through your work and life experiences. By having this learning recognised you may be able to reduce the amount of time you need to study to get your qualification.

In CIT, RPL can be used to gain:

1. An exemption or mark for a module or for a number of modules.
2. Entry to a programme in first year where the standard entry requirements have not been met.
3. Advanced entry to a programme at a stage other than first year.

What type of learning do you have?

Prior Formal Learning
This means that you are applying because you have already been successful in a similar or equivalent module at a third level college. It is necessary to state what exam(s) form the basis of your case and present this information along with proof of learning.

Prior Experiential Learning
You may not have a prior qualification but you may have learning from life and work experience relevant to a programme in CIT. You may want to have this learning recognised and you believe that you can provide sufficient evidence.

If you feel you have a case you must arrange to meet and discuss your case initially with either the Head of Department or the Course Co-ordinator.

As part of this process you will be asked to develop a portfolio which details your learning relevant to a programme in CIT. Support and advice is available from the RPL co-ordinator on developing your portfolio.

Advanced Entry
CIT, where possible, allows advanced entry to a programme on the basis of prior learning. If you feel you may have sufficient learning you should arrange to meet and discuss your case with the Head of Department or the Course Co-ordinator.

How do I apply for RPL?

You must first register as a student in CIT for a programme or module.

It is recommended that you discuss your case with the course co-ordinator or module lecturer before beginning the application process as they will be able to advise and direct you.

RPL application forms and further information are available at www.cit.ie/rpl

Important Dates
These will be posted on the CIT website.

In general:
For semester 1 you should register your RPL application by the beginning of September and your completed application must be received by mid-October.

For semester 2 you should register your RPL application by the beginning of February and complete your application by Mid-March.

For applications received outside of these dates assessment can not be guaranteed in that semester.

Contact
Contact Phil O'Leary who will explain what is required and will assist you with your application and portfolio preparation.

T: 021 433 5132
E: phil.oleary@cit.ie

Note on Fees
While the module fee is payable in advance, in the case of a successful prior formal learning application, an examination fee is charged and the difference is refunded.

ACCS: Take it in Stages

ACCS stands for "Accumulation of Credits and Certification of Subjects". In spite of that complicated title, it is a wonderfully simple idea. Instead of studying a complete full time course, you can take one or more modules at a time. Once you pass, it is certified individually. By accumulating modules, you can obtain an award at higher certificate, degree or honours degree level.

FETAC Awards: Admission to CIT

Grading of FETAC Awards in the CAO

FETAC operates within the National Framework of Qualifications, and its awards have been placed at Level 5 or Level 6 of the framework as appropriate. Holders of FETAC awards at Level 5 of the Framework of Qualifications should apply through the CAO system. Points will be allocated and will be used to place applicants in order, in the same rounds of CAO offers as Leaving Certificate applicants. Applicants must present a full award containing 8 modules. This full award may be accumulated over more than one academic year.

An overall CAO point score is calculated based on results in the best 8 modules presented. Each Level 5 module with a FETAC credit value of 1 is scored as follows:
Pass: 20 points; Merit: 35 points; Distinction: 50 points
(Scores are adjusted for any modules with a FETAC credit value other than 1).

If a FETAC applicant also presents a Leaving Certificate, the CAO will use whichever is the better of the Leaving Certificate points or the FETAC points.

Minimum Entry Requirements for FETAC Award Holders

Bachelor Degrees (Level 7)
The current minimum entry standard for Leaving Certificate applicants to a Level 7 Bachelor Degree course is an D3 ordinary in 5 subjects including Mathematics and either English or Irish.

The corresponding minimum entry requirement for holders of FETAC awards is a full FETAC Level 5 award with 8 modules passed (this gives a minimum of 160 points).

The requirement for English or Irish may be met by either D3 ordinary in the Leaving Certificate or a pass on a FETAC Communications module (Level 5 or higher).

The requirement for Mathematics may be met by D3 ordinary in the Leaving Certificate or a pass on a FETAC Mathematics module (Level 5 or higher).

NB: Certain courses may have specific minimum standards that are different to the above.

Honours Bachelor Degrees (Level 8)
The minimum entry standard for Leaving Certificate applicants to Honours Degree programmes is generally a pass in 6 Leaving Certificate subjects with two higher C3 grades and 4 D3 ordinary grades, including Mathematics and either English or Irish.

The corresponding minimum entry requirement for holders of FETAC awards is a full FETAC Level 5 award in a cognate area with 8 modules including a distinction in 3 modules.

The D3 ordinary Leaving Certificate requirement for English or Irish may be met by a pass on a FETAC Communications module (Level 5 or higher).

The D3 ordinary Leaving Certificate requirement for Mathematics may be met by a pass on a FETAC Mathematics module (Level 5 or higher).

NB: Certain courses have specific minimum standards specified that are different to the above. In particular, honours degrees which have a Mathematics requirement higher than D3 ordinary will still require the specified Leaving Certificate Mathematics achievement or an acceptable equivalent.

Portfolios and FETAC Awards

Entry to
- Visual Communications CR600;
- Fine Art and Ceramic Design CR220;

will be based on a combination of a CIT assessed portfolio (max 600 points) and the higher score in either the Leaving Certificate (max 600 points) or cognate FETAC award (max 400 points). This arrangement is under review and FETAC applicants to the above courses should check with the Institute's website, or with the Admissions Office.

Information on FETAC Courses can be attained from:
www.fetac.ie
Cork Further Education Colleges
www.corkcollegeofcommerce.ie
www.stjohns.ie
www.csn.ie

See also www.cao.ie
FETAC Awards: Admission to CIT

Cork Further Education Colleges Scheme

In addition to the general FETAC entry arrangements, CIT has established a special pilot scheme for the admission of students who successfully complete courses in Further Education FE Colleges in Cork. Under this scheme a number of courses in CIT are linked to certain courses in the FE colleges. CIT reserves a number of places on its linked courses for applicants achieving specified levels and other requirements in their awards. Ask at your Cork Further Education College for details.

CCPS
Cork Colleges Progression Scheme

Detailed Information on Application for Study at CIT

Overseas Students

European Union Applicants
EU applicants (including persons permanently resident in any EU member-state) should apply in the usual manner through the CAO by 1st February 2011, giving full details of their qualifications on the CAO form. For a full definition of "EU applicant" see the CAO Handbook.

Non-EU Applicants
Non-EU applicants should apply through the CIT Admissions Office giving full details of their qualifications. Such applicants may be required to attend for interview at the Institute.

Institutes of Technology Central Evaluation Forum (IOTCEF)
The purpose of the Institutes of Technology Central Evaluation Forum (IOTCEF) is to provide an open and transparent central scoring system for:

- Applicants presenting European school leaving qualifications (outside the Republic of Ireland)
- Applicants from outside the EU
- Applicants from both within and outside the EU whose first language is not English.

Details of the IOTCEF are available at:
http://www.cao.ie/index.php?page=scoring&s=iotcef
It must be borne in mind that each Institute of Technology is a separate admitting authority. CIT therefore reserves the right to accept or not accept a recommendation from IOTCEF.

Please note: where courses have specific entry requirements these must be satisfied before an institution will award a place.
All foreign applicants who have been offered places will be required to satisfy all the normal legal requirements (as laid down by the Department of Justice, Equality and Law Reform and the Department of Foreign Affairs) to gain access to education in this country, before acceptance and registration requirements can be brought to a conclusion.

Applicants must apply through the CAO system. Complete information on this is available in the CAO Handbook issued each year and is also available on the CAO website at: www.cao.ie

Leaving Certificate Information

Leaving Certificate Vocational Programme (LCVP)
Holders of the Leaving Certificate Vocational Programme apply in the normal way through the CAO. Points are awarded on the same basis as for the Leaving Certificate. The Link Modules are considered as a single unit and are awarded points on the basis of: Pass 30 points; Pass with Merit 50 points; and Pass with Distinction 70 points. The link modules 'subject' may not be used to meet minimum entry requirements.

Leaving Certificate Applied Programme
The Leaving Certificate Applied subjects do not meet the minimum requirements for entry. Holders of Leaving Certificate Applied may wish to proceed to a FETAC course and in turn to third-level on the basis of a FETAC award.

Foundation Level Mathematics
Most (but not all) courses in CIT require Mathematics. A pass in Foundation Level Mathematics does not satisfy such entry requirements in regard to Mathematics. However, a Grade B2 or higher is recognised as a subject for entry to CIT Crawford College of Art & Design CR220; CIT Cork School of Music CR121; Visual Communications CR600; and Early Years Education CR620.

In such cases CAO points are awarded as follows: A1 = 20 points; A2 = 15 points; B1 = 10 points; and B2 = 5 points.

CIT Mathematics Exam
Engineering Honours Degree Entry
Certain Engineering Honours degrees require Higher Level Leaving Certificate Mathematics. CIT has a special exam which is also accepted as meeting this standard. See the Basics section at the front of this Handbook.

Fees, Grants and Scholarships

The Minister for Education & Science has (at the time of writing) stated that arrangements are being revised. The Free Fees scheme in operation since 1995 may be modified or abolished. Applicants are advised to consult the Department of Education website at: http://www.education.ie/ (navigate to "students & trainees" > "financial support schemes").

Tuition Fees
For information, please refer to the `Basics' section at the beginning of the Handbook.

Registration Fee
An annual fee*, set by the government for student services, registration and examinations is payable to the Institute. For students who have been notified that they have been awarded a TLT Grant, Higher Education Grant or VEC Scholarship, the fee is paid on their behalf by the grant authority. Other full time students must pay the fee by a specified date, of which they will be notified.
* (The fee in 2010/2011 is €1500)

Applicants seeking further information may contact:
Carmel Kelleher,
Grants Office,
Cork Institute of Technology,
Bishopstown,
Cork.
T: 021 432 6182
E: carmel.kelleher@cit.ie

Sports Bursaries and Scholarships
For information, please see the Student Life section at the front of this Handbook.

Contact Information

Bishopstown Campus (021)

Main Switchboard	432 6100
Admissions	432 6142/6769
Accounts Office	432 6337/6182
Examinations	432 6513/6375
Registrar's Office	432 6465
Library	432 6501/6502
Careers & Counselling	432 6678
Medical Services	432 6549
Students' Services	432 6448
Students' Union	432 6254
Sports Office	432 6825/6826
Societies Office	432 6740
Arts Office	432 6566
Alumni Office	432 6589
Accommodation Office	432 6453
International Office	432 6689
Schools Liaison Office	433 5396

Department Secretaries

Accounting & Information Systems	432 6328
Applied Physics & Instrumentation	432 6214
Architecture	432 6203
Biological Sciences	433 5885
Chemical & Process Engineering	433 5885
Chemistry	432 6214
Civil, Structural & Environmental Engineering	432 6203
Computing	433 5160
Construction	432 6203
Distance Education & Instructional Support	432 6700
Educational Opportunities Department	433 5150
Electrical Engineering	432 6206
Electronic Engineering	432 6206
Management & Marketing	432 6328
Manufacturing, Biomedical & Facilities Engineering	432 6505
Mathematics	433 5160
Mechanical & Transport Engineering	432 6505
Media Communications	432 6226
Social & General Studies	433 5310
Tourism & Hospitality Studies	432 6677

CIT CORK SCHOOL OF MUSIC	480 7300
CIT CRAWFORD COLLEGE OF ART & DESIGN	433 5200
NATIONAL MARITIME COLLEGE OF IRELAND	497 0600

W: **http://www.cit.ie**
W: **http://modules.cit.ie**
Admissions E: **admissions@cit.ie**

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Course Fast Finder

CAO Points 2010

HONOURS BACHELOR DEGREE COURSES

Round 1

CAO LEVEL 8 LIST

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CR 106	Software Development	295
CR 108	Mechanical Engineering	380
CR 109	Structural Engineering	335
CR 112	Multimedia	375
CR 116	Software Development and Computer Networking	300
CR 121	Music* (at CIT Cork School of Music) Leaving Certificate & Entrance Exam	865
CR 150	Business Information Systems	310
CR 220	Fine Art and Ceramic Design* (at CIT Crawford College of Art & Design) Leaving Certificate & Portfolio	750
CR 305	Science (Common Entry)	320
CR 310	IT Management	300
CR 312	Web Development	310
CR 320	Biomedical Science (Joint CIT/UCC Honours Degree)	490
CR 325	Pharmaceutical Biotechnology	320
CR 330	Herbal Science	300
CR 333	Nutrition and Health Science	330
CR 340	Analytical Chemistry with Quality Assurance	315
CR 360	Instrument Engineering	315
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CR 520	Biomedical Engineering	395
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BACHELOR DEGREE COURSES

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CR 620	Early Years Education	400
CR 640	Culinary Arts	350
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HIGHER CERTIFICATE COURSES

CAO LEVEL 6 LIST

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CR 657	Hospitality Studies	110
CR 888	Information Technology Support	255

* Restricted Application/Early Assessment Procedures

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CIT Institiúid Teicneolaíochta Chorcaí
Cork Institute of Technology

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Feedback on this Handbook is very welcome.

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