

# Early University Entrance at Dublin City University



For Transition Year  
Students with High  
Academic Ability

Semester 2  
2024 - 2025

# Programme Background

## What is Early University Entrance?

Early University Entrance is an acceleration programme for Transition Year students with high academic ability. Participants may follow modules from degree programmes available at Dublin City University, part-time, throughout their transition year.

Students choose one course (see later in this brochure), and study 1-2 modules associated with that subject on one full day each week in DCU. Subjects may be scheduled any day from Monday to Friday. Classes take place between 10am and 4pm each day, in separate classes of approximately 20 students. Thus the Early Entrance classes will be made up of just Early Entrance students and run in parallel with the normal lectures in DCU. Students will also be expected to dedicate time outside of the scheduled lectures to independent learning, course assignments, etc.

Students may choose to partake in assessments and sit exams in their chosen modules at the end of the semester.

(Students should note that this programme will not help them to obtain a place at DCU when they are awarded their Leaving Certificate. They must still apply through the CAO).

The Reasons for Early University Entrance Academically talented students are typically highly motivated, but too often complain of being unchallenged and under-stimulated at school. This Programme will give these students the opportunity to access a level of learning that more appropriately matches their academic needs. They will learn high level material at a relatively fast pace, thereby providing a more realistic level of challenge.

## How will Early Entrants benefit from the Programme?

The advantages of taking on a degree programme at an earlier than typical age are wide-ranging. Research has shown that second level students who participate in university programmes benefit from:

- the experience of an intellectual peer group
- an optimally matched level of learning
- the experience of more appropriate and realistic academic expectations
- the opportunity to reach one's potential
- the focus it lends toward future study
- formal recognition of their ability
- it provides access to specialist teachers
- it can enhance student motivation through specialisation
- it affords the opportunity to study challenging and interesting course material
- it helps the student to become more independent
- it gives them the experience of university life
- they will have direct access to cutting edge research
- it helps the student gain better perspective on their own education and their academic goals

Early Entrants will have the benefit of being part of an enhanced intellectual group over a sustained period. Students on similarly styled programmes have proven time and time again that their age is not a hindrance to academic success. Research on this programme and others have shown that Early Entrants perform as well, and in fact usually better, than regular first year students in end-of-term exams.

### **Knowledge Gaps**

We are mindful that students taking on degree level coursework are likely to encounter material that requires the foundation given by the Leaving Certificate curriculum. Great care is taken therefore in adapting the modules so that students may learn all that is necessary to bridge any knowledge gaps.

### **The Development of Early University Entrance**

The Programme was developed by Dr Catriona Ledwith, at the Centre for Talented Youth, Ireland. The Programme development and evaluation was central to her PhD research at the School of Education Studies, DCU, under the supervision of Prof Joe O'Hara. It was a unique experience for the students and a pioneering endeavour for DCU.

The Programme was developed as a CTYI/DCU initiative, and had the approval of CTYI's Academic Advisory Board and the Research Ethics Committee, DCU. The programme was found to have hugely positive academic and personal outcomes for its participants. Based on this research, it is hoped that Early University Entrance will form a new direction for second level students at CTYI.

The Early University Entrance Programme has received the full support of the Centre for Talented Youth, Ireland, and Dublin City University itself. Individual Faculties and Schools have given generously of their time, advice and resources. (The original Programme received the support of the then National Coordinator for Transition Year, Mr Michael O'Leary.)

### **Pastoral Care**

Certainly in Irish terms, this is new territory and though embarking on new terrain particularly in education, is exciting, there will be concerns for everyone involved; student, parent, teachers, researcher and the university community. Much consideration and deliberation preceded the setting up of this Programme. It has been developed in line with the procedures and guidelines of the Irish Centre for Talented Youth, a long established unit at DCU, with strict rules and guiding principles on working with children and young people. It has adhered to the best practices in concurrent enrolment and early college entrance, as given by the universities and third level institutions in the US where similar programmes exist. The Programme will also operate in a manner that ensures effective child protection.

The Early University Entrance Programme will have a strong support network in place, given that the students will be younger than the ordinary student population on campus. The Programme will operate under the guiding principles of the Centre for Talented Youth Ireland, which has a long history of working with children and young people.

Though not as intensive in a supervisory capacity as the CTYI Summer Programme, the students will be monitored closely from a variety of different perspectives. Links with parents and the TY Coordinator will be made early on and Dr Ledwith will correspond with them on a regular basis to assess each student's progress. They will have frequent contact with Dr Ledwith, Hazel Skinner and Cathy Woods throughout.

### **Accessible to Students across the Country**

The 10am start at Early University Entrance is primarily to facilitate the commute to the DCU campus. Each year we have students coming from counties as far away as Cork and Donegal, taking very early trains to get here. Starting at 10am means EUE is a workable option. Having to attend over a number of days

each week might make it prohibitive but one day makes it a little more accessible from most locations around the country. Finishing at 4pm also means that students can get home at a reasonable hour!

### **Course Information**

The modules listed below indicate what is involved in each course; however, the precise content will be finalised at a later time. Specific details on each degree programme are given over the following pages. The general information is taken from the DCU Prospectus. Please note that, though unlikely, the modules listed below may change. (From time to time, Schools reorganise the arrangement of modules).

Where possible there will be double classes offered for certain subjects. This will be based on the discretion of the programme organisers, the availability of staff and the facilities needed to maintain the high standards of the Early Entrance programme.

### **Eligibility**

The Early University Entrance Programme is happy to receive applications from any student who:

is in Transition Year during the 2024-2025 academic year

**AND**

has previously qualified for the CTYI or CAT Programmes through CTYI Talent Search or based on a Psychological Assessment

**OR**

may not have the formal assessment results documented above but who has demonstrated high ability. These students will be accepted at the programme organisers' discretion.

# Course Options

## Semester 2

There are a limited number of places on each of the following courses:

**Early Entrance Biology** - based on modules from the Common Entry into Science  
– How Life Works 2 (BIO1001)

**Early Entrance Chemistry** - based on modules from BSc in Chemical and Pharmaceutical Science  
– Introductory Chemistry 1 (CS101)  
– Introductory Chemistry 2 (CS102)

**Early Entrance Computer Science** - based on modules from BSc in Computer Science  
– Networks and Internet (CA169)  
– Introduction to Programming (CA116)

**Early Entrance Engineering** - based on modules from Common Entry into Engineering  
– Software Development for Engineers (EM108)  
– Engineering Mechanics-Statics (EM112)  
– Project and Technical Drawing (EM106)

**Early Entrance International Relations** - based on modules from BA in International Relations  
– Introduction to Development (LG123)  
– American Political System (LG113)

**Early Entrance Law** - based on modules from BCL in Law and Society  
– Constitutional Law (LG118)  
– Criminal Law (LG325)

**Early Entrance Maths** - based on modules from BSc in Mathematical Science  
– Mathematical Processes and Skills (MTH1012)  
– Mathematical Problem Solving (MS110)

**Early Entrance Philosophy** - based on modules from Bachelors of Arts (Joint Honours)  
– Metaphysics (TP236)  
– Political Philosophy (TP134)

**Early Entrance Physics** - based on modules from BSc in Applied Physics  
– Electricity and Magnetism (PHY1019)  
– Life, the Universe and Everything (PHY1021)

**Early Entrance Psychology** – based on modules from BSc in Psychology  
– Social Psychology (PSY1007)  
– Biological Psychology (PSY1031)

**Early Entrance Sports Science** – based on modules from BSc in Athletic Therapy and Training  
– Introduction to Athletic Therapy and Training (TRE1008)  
– Conditioning Science 1 (SPO1007)

The course modules will, where possible, relate to existing first year modules on the named degree programmes. In some instances, the course modules on Early Entrance will follow the module precisely, while in others excerpts will be selected so that knowledge gaps are minimised. Each cooperating School and their nominated course instructor have worked with Dr Ledwith on exact course content.

# EUE Biology

## Understanding Biology

Biology makes up an integral part of degrees in Biotechnology, Genetics and Cell Biology, but it is also an important aspect in almost all other science degrees in DCU, such as the BSc in Science Education, or the BSc in Chemical and Pharmaceutical Science, etc.

Biology plays an important role in understanding complex forms of life. What are the differences between humans and plants, and what have we in common? Knowledge of biology allows us to create solutions to the challenges many living organisms face, and it paves the way for discoveries and inventions that can improve our quality of life. Through studying biology, we can develop a greater understanding of the human body and how to effectively deal with diseases. By studying the components of living cells, we can learn how to control, fix and modify them to our benefit.

This course will introduce students to the concept of the cell and focus on the basic biochemistry, physiology and molecular detail of animals and plants, including an introduction to animal evolution and diversity.

## Instructor's Comments

"EUE Biology Semester Two focuses on developing an understanding of human genetics and physiology. The first half of the course will provide an insight into how our genes dictate our characteristics, how we receive our genetic information through inheritance, and the exceptional work our body puts in to ensure our DNA is correct, preventing genetic mutations and errors. The second half of this course takes a deep dive into the essential body systems, including the cardiovascular system, the respiratory system, the nervous system and the immune system. The physiology section provides opportunities to get to know the intricacies of our cells, tissues, organs and organ systems, essentially all our working parts. Each body system will be explored in terms of structure, function, along with illnesses and disorders that occur when they are not working properly. EUE Biology is a fantastic introduction into human biology and would provide an excellent foundation of understanding for anyone with an interest in these areas."

**Megan Griffiths**

## Will it suit me?

The course in Biology will be of interest to students who enjoy studying biology and for those with an interest in recent scientific breakthroughs in human disease, molecular biology and research at the cellular level.

## What Will I Study?

### SEMESTER 2

#### How Life Works 2 (BE102)

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

Understanding how cells work underpins many areas, and so there is huge demand for a workforce with scientific knowledge, particularly in molecular and cellular biology. Graduates of biology degrees go on to work in biomedical research, biophysics, cell biology, bioengineering, microbiology, physiology, and more.



# EUE Chemistry

## Understanding Chemistry

Chemistry is central to understanding the world around us, from the smallest molecules to the vast complexities of materials and reactions. It underpins innovations in fields as diverse as medicine, energy, and materials science. Chemists have revolutionised industries with discoveries like synthetic polymers, pharmaceuticals, and renewable fuels. Today, chemists continue to advance knowledge in cutting-edge areas such as nanotechnology, green chemistry, and molecular biology. This course offers a deep dive into the principles and applications of chemistry, preparing students for future academic and professional pursuits in this critical scientific field.

## Will it suit me?

If you are curious about the substances that make up our world, how they interact, and how science solves real-world problems, then chemistry may be the course for you. A passion for discovery and a logical approach to understanding complex concepts will help you thrive in this subject.

## What will I study?

### SEMESTER 2

**Introductory Chemistry 1 (CS101)**

**Introductory Chemistry 2 (CS102)**

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](https://dcu.ie/registry/module_contents.php).

## A Future Career

Chemistry provides you with a strong foundation to progress toward a degree in your chosen area of specialism, with potential to pursue careers in fields such as: Pharmaceuticals, Environmental Science, Biochemistry, Materials Science, Forensics, Food Science, Research and Development, Education, and Healthcare. You will also be well prepared to explore further study and advanced qualifications in a wide range of scientific disciplines.



# EUE Computer Science

## Understanding Computer Science

Computing technology is all around us in our everyday lives. As intelligent, innovative and forward-thinking people continue to develop technology, it can help us to solve problems in a great range of applications (e.g. traffic circulation, climate modeling, the study of diseases, systems engineering, business modeling and ecology). This degree prepares you for a career in computing and information technology. It gives you in-depth knowledge of software engineering and the practical skills to apply this knowledge to develop the technology behind computer games, mobile phones, the Internet, web applications, entertainment systems and many other computing-based products.

## Will it suit me?

Do you enjoy problem solving? Do you like creating things? This course will help arm you with the tools needed to impact and shape our world with technology. This course will suit anyone who is technically minded and enjoys problem solving.

## Instructor's Comments

"This course is an excellent and exciting introduction to the world of Computer Science, touching on both the practical skills needed to become a software engineer and the theory required to understand how our day to day technologies work. Using Python as an introductory language, students will learn fundamental programming concepts and principles, allowing them to write their own programs and build their own projects. The work covered in this course would give any student a significant advantage entering any computer science degree, teaching concepts vital to any aspiring software engineer, systems analyst or web developer. This course encourages students to develop their critical thinking and problem solving abilities, as well as their social and communication skills in collaborative group projects. I would recommend this course to anyone who has an interest in technology, and a passion for learning about how systems and technologies work."

## What will I study?

### SEMESTER 2

### Networks and Internet (CA169) Introduction to Programming (CA116)

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

There is a broad range of careers that lead on from a degree in Computer Science. Students who continue to study CS at degree level become software engineers, programmers, systems analysts, web developers, cloud computing developers, app developers, technical consultants and computer studies teachers.

Seán Hammond



# EUE Engineering

## Understanding Engineering

Of all the courses and careers you can pursue, engineering is one of the most exciting. Engineers invent and design things, they make things work and they analyse and solve problems in all sorts of fields. For example, one of the areas emerging at the moment is the application of electronic and mechanical engineering to biology and life sciences.

Engineering solutions help patients with better diagnostic imaging, improved hearing devices, better blood vessel implants, laser surgery, etc. Engineers have designed the latest MP3 players, digital televisions, laptops and mobile phones. Engineers' work is behind industrial robots and racing cars, 3D cinema and airplanes, the latest computer games and the international space station. As engineers, you can find yourselves at the heart of just about any field, from high-tech industry and medicine to financial services, energy-aware technologies and biotechnology - the cutting-edge dynamic industries of tomorrow.

Common Entry into Engineering is specially designed to help you to find the course most suitable for you while studying the fundamentals of engineering. After the first year (common to all six engineering degrees in DCU), students may apply to follow a specific programme. Early Entrance Engineering is based on modules from this general programme, to give students a flavour of as many of the specialized areas within engineering as possible.

\* This module will be delivered as part of an ongoing research project from our Engineering PhD student Jacob Baneham. The project will be delivered through a modified version of the undergraduate engineering module EM106 - Project and Technical Drawing, bringing students through the design process from start to finish. Students will take part in Computer Aided Design (CAD) classes and design challenges, prioritising teamwork and good communication, developing strong conceptual design and transversal skills through the course. Design challenges will include meeting design demands, working within constraints and use of emerging technologies such as 3D Printing. The module structure will be designed with the help of students, allowing them to shape their own experience as they go through the course. Further details will be sent to any applicants for the Engineering course after the application closing date.

## Will it suit me?

As for most engineering degrees, ability in mathematics is a key requirement. A logical mind and an eye for detail are also important. Previous experience of maths, engineering or theoretical physics at CTYI will be an advantage, but is not essential, as the fundamentals will be covered on each module.

## What Will I Study?

### SEMESTER 2

**Software Development for Engineers (EM108)**  
**Engineering Mechanics-Statics (EM112)**  
**Project and Technical Drawing (EM106)\***

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

Engineering is about the design and production of useful products and services. It translates scientific knowledge into technology, and technology into successful innovation. Engineering subdivides into a broad number of specializations; mechatronic, electronic, digital media, mechanical and manufacturing, biomedical, and informational and communications engineering degrees, all of which are available to study in DCU. Engineering is a smart choice for anyone who is interested in design, technology, and development.

# EUE International Relations

## Understanding International Relations

The International Relations degree will give you insight into the major world issues that challenge and fascinate us today. You'll examine the forces that shape contemporary societies, such as globalisation, international law, third-world debt and American foreign policy. You'll also study key institutions like the European Union and the United Nations.

You'll learn from staff with expertise in areas such as Terrorism and Counter-terrorism, European Union studies, Middle-Eastern studies, International Security and Conflict Studies, International Law and Aid, and Development Studies.

The programme also prepares you for the work force by imparting broader abilities, such as oral and written communication skills, the capacity to think analytically, teamwork skills, and research techniques.

## Will it suit me?

International Relations is a diverse field that is extremely relevant in the increasingly globalised world we live in. Graduates from our BA in International Relations will be ideally suited to a number of roles especially when combined with work experience abroad and foreign language skills. With deep insight into global politics, cultures and the ability to identify and analyse global issues, graduates of International Relations are well placed

to pursue careers with governmental and non-governmental organisations, both national and international, like the United Nations and European Union, diplomatic services, as well as with major international corporations.

## What will I study?

### SEMESTER 2

#### Introduction to Development (LG123) American Political System (LG113)

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

Students who study International Relations go on to work in fields such as the international civil service, diplomatic services, international aid, policy evaluation and research, international commerce, journalism, politics, the armed forces, public affairs and public policy education.

## Instructor's Comments

"International Relations is a field that is becoming increasingly relevant and important to our daily lives and this course seeks to introduce students to some of the most integral elements to studying IR. This semester will focus on an introduction to development and the American political system. Both of these modules will build off of knowledge students might already have of the topic while also working as an introduction to the two areas of study. These two modules are great, especially for any student who might be interested in politics or even simply curious about how things such as foreign aid, development or the US Supreme Court work. The Early Entrance course will also integrate debates, videos, group work, and most importantly, class discussions regarding what we will be learning while also tying it back to what we can see happening in the world around us today."

**Jack Leahy**

# EUE Law

## Understanding Law

EUE Law is based on modules from the BCL (Law & Society) from the School of Law & Government. As a full degree, it provides students the foundations needed to pursue a career as a solicitor or barrister. During your degree students study core modules that prepare for the entrance exams to the Law Society as a trainee solicitor or to help students qualify for entrance to the Barrister-at-law degree at King's Inns.

## Will it suit me?

Law students should be prepared to put in long hours, while studying law. This immensely satisfying and thought-provoking course will suit students who enjoy picking apart a situation or circumstance, and building a supporting case. Throughout your learning we teach you to question how law affects society so that you gain a critical perspective at all stages of this degree. Students will begin to learn transferable skills, including research techniques, and oral and written communication.

## Instructor's Comments

"The EUE Criminal and Constitutional law modules offer an engaging and stimulating course which allows students to explore key areas of the Irish legal system. Criminal law covers chapters such as Classifications of Crimes, Crimes by Act, Crimes by Omission, Actus Reus, Mens Rea, and many more topics. Constitutional law covers further topics such as the Separation of Powers, Religion and the Irish Constitution, and the Doctrine of Proportionality in Irish law. Tutorials will allow students to engage with the course material more interactively and provide the space to have open discussions about the topics. Students who love attention to detail, using critical analysis skills and constructing arguments may find great enjoyment from this course!"

## What will I study?

### SEMESTER 2

**Constitutional Law (LG118)**

**Criminal Law (LG325)**

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

This course is suitable for any student who is considering a career as a solicitor, barrister, paralegal, legal Advisor, politician, civil servant, auditor, risk analyst, policy manager, researcher or regulator.

**Adam Byrne**

# EUE Maths

## Understanding Mathematical Sciences

“Pure mathematics is, in its way, the poetry of logical ideas.” Albert Einstein

Mathematics is the study of space, structure, change and numbers. Observing patterns, mathematicians devise assumptions, which they then attempt to resolve through mathematical proofs. When an assumption is proved true, greater insight into nature is achieved. Mathematical science includes a vast range of topics including: number theory, geometry, algebra, calculus, trigonometry, topology, logic and game theory. It has progressed from counting and measurement through the use of abstraction and logic.

## Will it suit me?

Mathematical Sciences will suit students who think logically, enjoy problem solving, are mentally flexible and comfortable thinking in abstract terms. A healthy enjoyment of mathematics helps too!

Please note we are very mindful of the fact that the associated degree progresses directly from higher level Leaving Certificate maths. The modules selected will take due consideration of this, and where knowledge gaps exist, they will be addressed in the course of the programme. Therefore Early Entrance Mathematical Sciences assumes absolutely no prior knowledge of Leaving Certificate Maths.

## Instructor's Comments

“In this course, a huge emphasis is put on problem solving. The students' problem solving skills are honed over the duration of the course, by adding to those skills and emphasizing the skills they already have. Work is done in groups to foster understanding, communication and teamwork along with mathematical ability. Students learn how to communicate their mathematical ideas to each other and how to listen to the ideas of their team members. The course also looks at common mistakes made at university level in maths as well as introducing new mathematical concepts such as game theory. In this course, the student is encouraged to be an active member of the class, rather than a passive listener. This course enhances mathematical ability, communication and collaboration, all of which are useful life skills.”

The modules selected focus primarily on the problem solving skills required to solve mathematical problems, rather than the learning of specific mathematical concepts.

## What Will I Study?

Exact modules will be carefully selected with the School of Mathematical Sciences, mindful that students entering the programme have not yet completed the Leaving Cert Maths curriculum.

## SEMESTER 2

**Mathematical Processes and Skills (MS111)**

**Mathematical Problem Solving (MS110)**

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

A degree in mathematics opens up a range of careers including: accountancy, banking, risk analysis, tax analysis, informatics, teaching, programming, trading, statistics and management.

**Dr Niamh Plunkett**

# EUE Philosophy

## Understanding Philosophy

Philosophy is possibly the most fundamental of subjects as it asks the question: 'What does it mean to be?' The aim of this course is to enable students to acquire the basic skills of philosophy i.e. analytic argument and essay writing; and to introduce students to some of the most profound thinkers in history. The course will cover some of the fundamental concerns of philosophy such as: the history of philosophy, metaphysics and epistemology, logic, ethics and political theory, the philosophy of mind.

## Will it suit me?

Philosophy has something for everybody, but particularly suits those who are curious about all aspects of life and want to use reason to answer life's biggest questions. If you are interested in the nature of reality, the concept of truth or how to live a good life, philosophy is the course for you. If you enjoy expanding your mental horizons, learning how to construct an argument and find weaknesses in other arguments, and analysing contemporary issues using logic, philosophy is for you. Everybody asks philosophical questions at some point in their lives; and such questions are especially pertinent during the teen years.

## Instructor's Comments

"The EUE Philosophy course is a program designed to inspire and engage young students with ideas in the history of philosophy as well as with contemporary philosophical concerns and debates. In the second semester, the two modules on offer are Metaphysics and Political Philosophy. In the EUE Metaphysics, the students will get introduced to several questions regarding the fundamental nature of reality, such as the first principles of being, identity and change, space and time, causality, and God's existence. The EUE Political Philosophy offers an introduction to some key philosophical themes that are behind all political theories, such the state of nature, the justification of the state, who should rule, justice, liberty, the social contract, and human rights. By the end of this course, the students will be able to grasp philosophical concepts, learn how to formulate strong arguments, identify mistakes in the arguments of others and engage with several philosophical problems in a highly interactive, fun, and stimulating teaching and learning environment."

## What Will I Study?

### SEMESTER 2

#### Metaphysics (TP236)

#### Political Philosophy (TP134)

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

Philosophy does not create an obvious career path outside of academia. However, the skills philosophy graduates develop widely sought after in a variety of fields. It turns out that over the long term, philosophy graduates earn the most of any liberal arts graduate. The problem solving abilities and creative approaches of philosophy graduates are increasingly valued, notable amongst big-tech companies.

Evie Filea



# EUE Physics

## Understanding Physics

Physics is the most fundamental science. It explains the mysteries of the universe and has fuelled many of the scientific and technological developments that we take for granted.

Physicists also pioneered modern technologies as diverse as the Internet, nuclear power and MRI scanners. Today physicists continue to generate new knowledge about our world and lead innovation in yet-to-be exploited realms such as quantum information and communications technology, nano-systems design, ultrafast molecular switching and terahertz medical imaging.

## Will it suit me?

If you are interested in how the world works and how science seeks to answer the big questions, if you have a logical mind and competency in mathematics then Physics may be the course for you.

## What will I study?

### SEMESTER 2

**Electricity and Magnetism (PS104)**  
**Life, the Universe and Everything (PS114)**

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

Physics provides you with the platform to progress to a degree in your chosen area of specialism, with potential to pursue careers in areas as varied as: Meteorology, Astronomy and Astrophysics, Design Management, Data Science, Research and Development, Education, Information Technology, Healthcare and Aeronautics. You will also be ideally positioned to pursue further study.

## Instructor's Comments

"Life the Universe and Everything: This course comes in two main parts. The first focuses on astrophysics and astronomy, covering topics such as stellar evolution, the formation of our solar system and other interesting objects in space from black holes to pulsars. The second focus is on the human body, in particular the respiratory and cardiovascular systems. Here, physics and biology are combined in order to explore how the body functions, through the use of fluid mechanics and understanding of the various organs and muscles that allow us to live on a day-to-day basis. This is an exciting and diverse course that allows for students to not only learn individually but also to develop their understanding and teamwork skills in groups through tutorials and class discussions."

**David Dwyer**

# EUE Psychology

## Understanding Psychology

Psychology is concerned with all aspects of behaviour and the thoughts, feelings and motivations underlying such behaviour. While psychologists differ in their interests within the field of psychology and in the type of work they do, they all approach the study of psychology in a scientific way. Psychologists are concerned with practical problems such as:

- How can we make sure that eyewitness accounts in court are reliable?
- How can we help people overcome depression, stress or phobias?
- How do footballers keep their anger in check on the pitch?
- What makes a good manager?
- How can teachers ensure students are really learning?

If you think these research questions are interesting, then you may be interested in studying psychology.

## Will it suit me?

You should possess good verbal and written skills, be hard-working and creative, have an enquiring mind and have the ability to think critically. Other qualities that would be an advantage are flexibility and good interpersonal skills.

## Instructor's Comments

"The EUE Psychology module is a fascinating and engaging course that provides students with understanding of the cognitive, social, and individual processes that shape behaviour. The interplay between our biological and genetic make-up and the social factors that affect how we think, feel, and act is highlighted for students in the course. Students gain a broad understanding of the complex and nuanced nature of human behaviour from the course's coverage of subjects including social psychology and biological psychology. Students learn how to interact critically with the content covered in class as well as how to establish their own well-informed opinions supported by empirical research. Students gain knowledge of the ethical concerns that have been addressed in psychological research throughout the years as well as some insight into the scientific method of conducting research in psychology."

## What Will I Study?

### SEMESTER 2

**Social Psychology (PSYC102)**

**Biological Psychology (PSYC211)**

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

For those wishing to work as a psychologist in a professional setting, e.g. counselling, clinical, organisational, health, educational, sport or academic, further study is required. A degree in psychology opens up a number of different career paths. Many psychology graduates have used their degree to pursue a career in management, social research, youth work, community development, public relations, human resources and marketing.

**Cathy Woods**

# EUE Sports Science

## Understanding Sports Science

Sport and exercise scientists use research and analysis to give specialist advice to improve individual or team athletic performance. They also design and administer appropriate methods of assessment, and create exercise or training programmes aimed at improving either health or sporting performance.

As a sport scientist, you must be well versed in technical, physiological and psychological aspects of your field in order to cover territory as diverse as exercise testing, psychological preparation for competition, movement analysis, dietary considerations and strength training.

## Will it suit me?

As part of the Early Entrance Sport Science course, you'll examine the key science subjects that form the backbone of this degree: chemistry, physics, anatomy, physiology, psychology and sociology. As you progress, you'll learn how these subjects are applied to the study of sport, exercise and health, and what role factors like nutrition and genetics play, as well.

## Instructor's Comments

"The Introduction to ATT module is a great taster of what Athletic Therapy students learn over the course of their four years in DCU. In this module, students get the chance to learn about the background causes, assessment and treatment of injuries that are crucial to becoming a Certified Athletic Therapist. As well as this, The Intro to ATT modules teaches students key skills of academic writing and literature appraisal. This course would be of particular interest to students interested in sports and the healthcare professions."

## What Will I Study?

### SEMESTER 2

**Intro to Athletic Therapy and Training (TRE1008)**  
**Conditioning Science 1 (SPO1007)**

Please note that although the modules for this course will follow the techniques practised at DCU undergraduate level, the course material will be catered specifically to the Early Entrance students.

Full details of these modules are available at: [dcu.ie/registry/module\\_contents.php](http://dcu.ie/registry/module_contents.php).

## A Future Career

Sports Science graduates can pursue further study in related areas, including: physiotherapy, nutrition, clinical exercise, strength and conditioning, coaching and education. Potential careers include; Coaching, Education, Exercise Rehabilitation, Health Promotion, Sport and Leisure Administration, Sports Development

**Sarah Dillon**

# Timetable Information

Each semester runs over 13 weeks. Students will be expected to attend lectures during school holidays if lectures are scheduled.

Semester 2	Begins week starting Monday, <b>27th January 2025</b>	Concludes week ending Friday, <b>9th May 2025</b>	Exams <b>5th May - 9th May 2025</b>
------------	---	---	--

**No classes** on Monday 3rd February (Classes will be rescheduled)

**No classes** on Monday 17th March

**No classes** Tuesday 15th April - Friday 25th April (mid term break)

Please note that there will be classes on Monday the 14th April

**No classes** on Monday 5th May (exams will be rescheduled)

Class will take place between 10am and 4pm, with an hour for lunch and a short break mid-morning and mid-afternoon. Exact times will be defined later, to suit lab sessions etc. Provisionally, we have the following set in place.

Please note that days may change. Previously, classes have had to be offered on alternative days due to the large numbers of students and limited availability of classrooms, but we will do our best to offer the classes on the days listed below.

## Days liable to change

Day	Course	10am - 12pm	12pm - 1pm	1pm - 2pm	2pm - 4pm
Monday	Maths	Module 1	Lunch	Tutorial	Module 2
	Int. Relations				
Tuesday	Engineering				
	Sports Sci.				
Wednesday	Biology				
	Computer Sci.				
Thursday	Psychology				
	Physics				
Friday	Law				
	Philosophy				
	Chemistry				

## Orientation

The orientation for new students will take place online, usually the week before classes are due to begin.

## Academic Arrangements

### Student Enrolment

Early Entrants will be registered as CTYI students, not DCU students.

### Lecture Attendance

Students are required to attend all scheduled lectures. Lecture attendance will be monitored by CTYI. Parents/students will be expected to call/email the office if they are unable to attend class.

### Course Delivery and Online Components

Each module will be supported by content on the Google Classroom platform, including copies of lecture slides and notes, useful links, class discussion forums, and further resources.

### Course Makeup

There will be a limited number of places available on each of the Early University Entrance courses. Please be aware that some course places will be more limited than others due to lab restrictions, etc.

### Student Difficulties

Parents are asked to contact the office in the event of their child experiencing any difficulty; academic, social or otherwise.

### Exams, Credits and Exemptions

Students are strongly encouraged to undertake all assessments associated with their modules. This includes continuous assessment and examinations. If a student opts to take the examinations, they will receive a transcript of their results from the Centre for Talented Youth.

Please note that the nature of this programme means grades obtained through examination will not be stored by Dublin City University. They will however be retained by CTYI. If the exam taken was the same, and the student decides to return to that degree programme (or a degree programme that shares that module), Post-Leaving Certificate, they may be able to apply to their particular School for exemptions from these modules. These credits may only be redeemed on relevant DCU degree programmes, are not transferable to any other third level institution, and their redemption is entirely at the discretion of the school involved.

It should also be noted that participation on the Early University Entrance Programme does not entitle students to a place on an associated

degree programme upon completion of the Leaving Certificate. Students wishing to return to that degree programme must apply through the CAO.

## Day to Day Arrangements

### Non-Attendance

In the event that the student is unable to attend on a given day, they or their parent must contact the office.

### Non-Academic Help and Assistance

Ruth Lally, Ms Cathy Woods and Ms Hazel Skinner will be available to the Early Entrants during the week for support. Where a student is experiencing difficulties on the Programme, they, their parent/guardian or their school are advised to contact us immediately.

### Discipline

The Early University Entrance Programme demands the same standards of behaviour, one would normally find in a caring, well-organised home. Honesty, cooperation and respect will be expected from all students. Rules concerning student conduct will be explained at the beginning of the Programme. Our rules are for the safety and well-being of all students and we ask both parents and students to cooperate fully with the Programme.

### Insurance

Students of CTYI are covered by Dublin City University's public liability insurance policy while in the care of CTYI. This cover does not extend to students who leave campus without permission or without a staff member in attendance. Previous CTYI students may not visit current students during the programme. A student who has been dismissed from the programme will no longer be the responsibility of Dublin City University or of CTYI once their parent/guardian or a person nominated by them for that purpose has been notified of the impending dismissal and given reasonable time to make arrangements to collect the student.

### Research

Like the original Early University Entrance programme, it is intended that some research will be carried out on the effectiveness of the programme along with its impact on its participants. Full details of the planned research will be outlined during induction.



# Fees

The fees for the Early University Entrance Programme semester 2 are **€900** in total.

Semester fees are paid in two portions:

- A €200 registration fee is required **with your application**. (This is refundable if you don't get offered a place)
- The remaining €700 fee should be paid on or before **Friday, 10th January 2025**

Payment can be made by bank draft, postal order, or credit/debit card. Cheques and cash are not accepted.

To pay by card, pay through the CTYI Online Payment Portal, at: [dcu.ie/ctyi/application-payment](https://dcu.ie/ctyi/application-payment)

## DEIS Schools linked to DCU

Only students from the schools listed below qualify for reduced EUE fees. Please note this reduced fee only applies to EUE courses.

**Beneavin De La Salle College,**  
Beneavin Road, Finglas, Dublin 17

**Chanel College,**  
Coolock, Dublin 5

**Coláiste Dhúlaigh,**  
Barrycourt Road, Coolock, Dublin 7

**Coláiste Eoin,**  
Cappagh Road, Dublin 11

**Cabra Community College,**  
Kilkiernan Road, Cabra, Dublin 9

**Grange Community College,**  
Grange Road, Donaghmede, Dublin 13

**Margaret Aylward Community College,**  
The Thatch Road, Whitehall, Dublin 9

**New Cross College,**  
Cappagh Road, Dublin 11, Dublin 5

**Mercy College,**  
St Brendan's Drive, Malahide Road, Dublin 9

**Our Lady of Mercy College,**  
Beaumont Rd, Beaumont, Dublin 9

**Pobalscoil Neasáin,**  
School Ln, Baldoyle, Dublin 13

**Rosmini Community School,**  
9 Gracepark Road, Drumcondra, Dublin 9

**Scoil Chaitríona,**  
St Mobhí Rd, Glasnevin, Dublin 9

**St Aidan's CBS,**  
Collins Avenue, Whitehall, Dublin 11

**St David's CBS,**  
Malahide Road, Artane, Dublin 5

**St Mary's Holy Faith,**  
Old Finglas Road, Glasnevin, Dublin 11

**St Mary's Holy Faith,**  
Brookwood Meadow, Killester, Dublin 7

**St Vincent's CBS,**  
Finglas Road, Glasnevin, Dublin 11

**St Finian's Secondary School,**  
Castlefarm, Swords, Dublin 11

**St Kevin's College,**  
Ballygall Rd East, Finglas, Dublin 11

**St Michael's Holy Faith,**  
Wellmount Road, Finglas, Dublin 9

**The Donahies Community School,**  
Streamville Road, Dublin 13

**Trinity Comprehensive,**  
Main Street, Ballymun Road, Dublin 9

Students from DEIS schools linked to DCU should contact us directly, as they are eligible for greatly reduced fees.

## Scholarships and Financial Assistance

CTYI offers full or multiple partial scholarships to students applying for any of the courses being offered on EUE. Please note that CTYI scholarships are awarded on the basis of merit and need. Please find the scholarship application forms in the application booklet. DCU Sport are offering full scholarships to students applying for the Sports Science course.

Financial aid is also available. Please contact us if you require a form for this, as it should accompany your application.

# Application Procedure

Applicants must prove that they are sufficiently motivated and ready to undertake learning in a real university environment. The letter of motivation and school recommendations are included in the application pack so that students can present their desire to participate as fully as possible. As spaces are limited on the programme, it is important that applicants take this opportunity to present themselves as worthy candidates for the programme.

## How do I Apply?

Candidates should complete the application form accompanying this information brochure. Applicants should refer to the checklist below to ensure that their application contains all of the necessary information. The closing date for receipt of applications is **Friday, 29th November 2024**.

## Application Checklist

Please ensure that your application includes the following information:

- Completed Application Form**
- €200 Registration Fee**
- Recommendations submitted to teachers for completion**
- Signed parent and student consent forms**
- Copy of Psychologist's report, if requested**

## Brochures not received

If you know a CTYI student who is in Transition Year during the 2024-25 academic year and has not received this information pack, please ask them to contact 01 700 5634 or [ctyi@dcu.ie](mailto:ctyi@dcu.ie)

## Recommendations

You must have two recommendations from teachers at your school. Recommendations should if possible be completed by teachers of subjects relevant to your subject (eg Maths/ Science teacher for Engineering, English/History for Law etc). Recommendations should be posted separately. They should be forwarded by your referees to:

**Early University Entrance Programme  
Centre for Talented Youth, Ireland  
Dublin City University  
Dublin 9**

Please note that Teacher Recommendations may follow your application. Make sure to get your application form in first and we will contact you if your recommendations have not been returned.

## Once we Receive your Application

We aim to send course offers by post approximately 3 weeks after the closing date. Details of orientation days will be included in course acceptance packs. Please bear in mind we receive an increasingly high number of applications each year so unfortunately we cannot guarantee dates for course offers.

# Application Timeline

**Closing Date for Applications..... Friday, 29<sup>th</sup> November 2024**  
**Balance of Fees..... Friday, 10<sup>th</sup> January 2025**  
**Lectures begin..... Week beginning Monday 27<sup>th</sup> January 2025**

# Terms and Conditions

## Registration Fee

All fees include a €200 registration fee, which is non-refundable for courses accepted.

Please note, your child's application will be suspended until the payment has been processed.

## Course Allocations

All communication relating to course allocations is communicated by Post. Please do not call the office as we cannot share this information by any other means.

Fees are non-transferable.

CTYI reserves the right to cancel or alter any course, if due to unforeseen circumstances the course cannot be run economically or efficiently.

## Important to Note

Students who violate programme rules or policies are subject to the disciplinary actions outlined at the beginning of the programme. No refunds will be made to students dismissed from the programme. Students and their families will be billed for any damage they cause. Any student who has been dismissed from the Programme will not be permitted to take end of semester examinations.

## Refunds

Written requests for a refund of Application Fees received up to and including 10th January will be considered. After this date there will be no refund of Application Fees.

Refunds are only provided where a course does not take place or where a course is full.

No refunds will be offered in the event of the course moving online due to public health guidelines or a university directive.

Refunds are not given if the student withdraws from the programme having been offered a place on one of their course choices.

The €200 Registration fee is non-refundable for courses accepted.

## Policies

DCU's Child Protection Policy can be viewed at: [dcu.ie/policies/child-protection-dcu-policies-and-procedures](https://dcu.ie/policies/child-protection-dcu-policies-and-procedures)

Details of CTYI Data Protection, Anti-Bullying, Garda Vetting and Equality policies can be viewed at: [dcu.ie/ctyi/ctyi-policies](https://dcu.ie/ctyi/ctyi-policies)



# Contact Us

**Catriona Ledwith**

EUE Programme Organiser  
catriona.ledwith@dcu.ie  
+353 1 700 8423

**Ms Hazel Skinner**

EUE Administrator  
hazel.skinner@dcu.ie  
+353 1 700 5598

**Ms Cathy Woods**

EUE Administrator  
cathy.woods@dcu.ie  
+353 1 700 7031

**Ruth Lally**

ruth.lally@dcu.ie  
+353 1 700 8482

**Dr Colm O'Reilly**

CTYI Director  
colm.oreilly@dcu.ie

**CTY Ireland**

Main Office  
ctyi@dcu.ie  
+353 1 700 5634

## Closing Date for Applications

Friday 29th November 2024

**Post Applications to:**

Early University Entrance Programme  
CTY Ireland  
Dublin City University  
Dublin 9