



Ollscoil Chathair  
Bhaile Átha Cliath  
Dublin City University

# Summer Scholars 2023

**DCU St Patrick's Campus**

2 Week Academic Programme For  
Secondary School Students

Session 1: 26th June - 7th July

Session 2: 17th July - 28th July

A Programme of



# Invitation to Participate in the 2023 Summer Scholars Programme

Since it was established by DCU 30 years ago, the Centre for Talented Youth, Ireland (CTYI) has provided an inspiring space for thousands of gifted children and young people. The centre has played a crucial role in their personal and academic development, creating a safe and encouraging environment where they have been able to expand their horizons and challenge themselves in a positive way. CTYI is also a place where lifelong friends meet, bonded by their shared interests and talents.

Today, CTYI is the largest centre of its type in Europe, and the only such initiative on the island of Ireland. The centre's success is thanks to the extraordinary work of the CTYI team. It is also due to the excellence of DCU teaching staff whose engagement with students continues to inspire - introducing participants to exciting knowledge, skills and ideas. Furthermore CTYI has engaged in some groundbreaking research in gifted education with partners at Johns Hopkins University and William and Mary in the United States and numerous third level institutions across Europe - research that offers teachers, parents and policy makers important insights.

Over the last three decades, DCU and CTYI have grown in scale and ambition. In recent years, DCU incorporated two additional campuses, St Patrick's and All Hallows. This Incorporation process has allowed the creation of Ireland's first full faculty of Education, DCU Institute of Education. Research at the Institute continues to develop our understanding of young people's educational development.

The success of CTYI is underpinned by DCU values and our University-wide commitment to Equality, Diversity and Inclusion. We believe that everyone should have access to an education that helps them to achieve their potential. As such, CTYI is part of an ecosystem that includes our Age-Friendly University and Autism Friendly University initiatives, the DCU Access programme and our University of Sanctuary activities.

We are immensely proud of all that CTYI has achieved in its first three decades. Its work with children and young people has, without doubt, delivered on the DCU mission to 'transform lives and societies'. We look forward to the next thirty years.

**Prof Daire Keogh**  
DCU President

This year we are hosting classes for the first time in the DCU St Patrick's Campus in Drumcondra due to the renovation of the Glasnevin site. We are confident that we will be able to offer an amazing programme for Summer Scholars students this summer. The St Patrick's Campus is the home of the Institute of Education and boasts some of the best facilities in all of Dublin.

The courses on offer are exciting and challenging and will hopefully give students a glimpse of the third level academic experience. We can also offer a great out of class experience where students can make new friends and renew old acquaintances from previous years.

This is our 30th year of CTYI courses and over the years we have seen the positive effect this programme has had on the lives of the students who participated. We really hope you can join us in DCU St Patrick's Campus for Summer Scholars 2023.

**Dr Colm O'Reilly**  
CTYI Director

# Application Information

**Full Fees**  
€500

**Initial Application**  
€300

**Balance of Fees**  
€200 (due before May 5th)

Students wishing to apply for Financial Aid or Scholarships should contact Ms Linda Murphy on 01 700 8103 or linda.murphy@dcu.ie, before sending their application.

Financial Aid and Scholarship applications must include a minimum fee of €100 Credit/Debit Cards ONLY.

Balance of Fees forms will be posted with the Acceptance Packs in April.

Students will not be permitted to attend the Summer Programme until all fees have been paid.

## Avoid Delays in the Application Process

**Remember - First Come, First Served**

All course places are allocated on a first come, first served basis.

Applications will not be processed unless full information is provided. Please review your application carefully before posting it as an incomplete application will be returned by post.

The following items cause delay in the application process:

- **Missing Signatures** - Both the student's signature **and** parent or guardian's signature(s) are required on the application form
- **Fees Not Enclosed** - The initial application fee is required as part of the application for courses

### **Please Note**

An online payment does not constitute an application on its own, and does not guarantee a place on any programme. You **MUST** complete and return your application form.

## Application and Fee Deadlines

**Financial Aid Deadline - Friday, 28th April 2023**

**Closing Date for Applications - Friday, 28th April 2023**

**Balance of Fees Deadline - Friday, 2nd June 2023**



# Course Information

## Location

All courses this year will take place on DCU St Patrick's Campus, in Drumcondra.

## Course Information

The Summer Scholars programme was developed to give students opportunities for greater challenge and stimulation than they would be used to at school. Drawn typically from a university curriculum, our courses are fast paced and cover material in more depth and at greater levels of complexity than is usual at post primary school. Students may also use this as an opportunity to trial run a university course that they may be considering in the future. Textbooks and hand-outs, where required, will be provided on the first day of class.

## Eligibility

This programme is open to all second level students aged 12-17 years, except those who will sit their Leaving Certificate in June 2023 (i.e. 1st - 5th years) All students attending should have been born after 1st June 2005. Please note applicants must have sufficient English proficiency as all courses are taught through English.

For enquiries about eligibility please email: [linda.murphy@dcu.ie](mailto:linda.murphy@dcu.ie)

## Course Structure

Students take one subject, which they study intensively for approximately 60 hours over the 2 weeks. Class sizes are small with 15-20 students. Overall, the student to staff ratio is approximately 5 to 1. Classes have an instructor, a teaching assistant. CTYI staff are chosen on the basis of mastery of the subject, enthusiasm and good communication skills.

## Course Choices

Students should think very carefully about their course choices, listing only those courses which they will accept if they do not receive their first choice. The more flexible students can be, the greater their chances of being assigned to a course. Students are assigned to courses on a first come, first served basis upon receiving your application.

## Course Allocation

Course assignment packs will be posted as soon as possible after the closing date to students who have been allocated places. Students who have not been offered places may choose to have their deposit returned or apply for any places in courses which have not been taken up. (Please note that refund requests must be made in writing). CTYI reserves the right to cancel or alter any course if, due to unforeseen circumstances the course cannot be run economically or efficiently.

## Note to Returning Students

Enrollment is limited in many of the courses. It is very important for you to list alternatives and to apply in good time. Returning students should also note that this year's programme will instead be on the DCU St Patrick's Campus in Drumcondra.



# 2023 Summer Courses

## Session 1

26th June - 7th July

- Mechanical Engineering
- Neuroscience

## Session 2

17th July - 28th July

- Criminology
- Medicine

# Course Descriptions

## Criminology

What is crime? Who commits crime? Why do people commit crime? How is crime dealt with? Criminology is the scientific study of the nature, extent, causes, and control of criminal behaviour in both the individual and in society. This course will delve into many areas in an attempt to explain crime and criminal behaviour. The course will start by assessing the different theoretical perspectives which attempt to offer a scientific study of 'crime' and the 'criminal', from classical to contemporary theories. We then take a more practical approach, reviewing topical criminal justice issues in Ireland and elsewhere such as crime rates, media and crime, policing, poverty and sentencing policies. We conclude with an overview of studies in penology and penalty, theories of the prison and of alternatives to imprisonment.

## Mechanical Engineering

Combining the principles of maths and science, mechanical engineers devise creative solutions to small and large scale problems. This branch of engineering has brought about and continues to advance the fields of aviation, robotics, medical devices, transportation, chemical processing, and energy. Concerned with the design and production of device components and systems, students will learn about computer-aided design in the development of different mechanical systems. In a world where energy efficiency, renewability and environmentally friendly processes are of primary concern in the development of any product, mechanical engineering requires creative thinkers with outstanding analytical skills and problem-solving abilities. As teamwork is central to all engineering, this course will be no different. Students will work on group projects, developing and improving products that solve real world problems, in a smart and effective way. This course will suit students who are considering engineering as a career, but also those who enjoy problem-solving, maths and science in general.

## Medicine

Do you want to be a doctor in the future? If so, why not try this innovative taster course in medicine, which contains both theoretical and practical elements. Students will learn about health and illness with a focus on anatomy, the causes, prevention and possible cures and treatments of various diseases. The course will focus on problem based learning where these health practitioners of the future will be taught the basics of medicine using case studies, evidence from expert Speakers and advice from the instructor. Debates and discussions will be carried out by the students on topics such as the value of alternative therapies, should blood and organ donation be compulsory, and will biotechnology be the way forward for medical treatments?

## Neuroscience

Why do we sleep? How do some people 'smell' colour? How do our brains change throughout life? Why did the man mistake his wife for a hat? Is nature or nurture more important in how we behave? Are you interested in these questions? Then the Neuroscience course is for you! Neuroscientists now work in fields as varied as mechanisms of disease, drug development, sports medicine and psychology and we shall touch on all of these areas. Students will begin with the basics of cellular biology and neuroanatomy before taking a tour of the brain looking at both the normal function of different areas of the brain and what happens when these functions break down. We shall also look at more recently developed fields of neuroscience such as stem cell therapies and brain-computer interfaces. This course is of interest to anyone who has an interest in how our brains work, how we process the world around us and what happens when these systems break down. We shall also look at and discuss how this fascinating research is carried out in laboratories in Ireland and around the world. The class will be lecture based but enthusiastic discussions are welcome!

# Student Life

This year, the CTYI programme will take place on the DCU St Patrick's Campus in Drumcondra.

## Getting to DCU St Patrick's Campus

St Patrick's Campus in Drumcondra is well served by public transport with several Dublin Bus routes passing on Drumcondra Rd Upper (1,11,13,16,33,41, 41a, 41b,41c,44) Drumcondra Train Station is a 10 minute walk from the campus, or 5 minutes by bus. Car Parking is available for visitors, though spaces can be limited. Car Park 6 is a designated Pay-by-Text car park, which is the only location where non permit holders can park, at the fee identified on the signage locally.

For more detailed campus information please go to: [dcu.ie/campus-maps](https://www.dcu.ie/campus-maps)

For details about car parking please go to: [dcu.ie/estates/information-parking-estates-office](https://www.dcu.ie/estates/information-parking-estates-office)

## St Patrick's Campus Facilities

Facilities available on St Patrick's Campus include the restaurant (where all students can eat meals), a small shop and common seating areas. There is a pharmacy, supermarket and bank close by.

## Computing Facilities

There are excellent computer facilities for those courses that require computers. There is no need for students to bring laptops or tablets to CTYI, however if they would like to they can. We recommend parents take out insurance on these items.

## Medical Services

Services provided on campus will be limited to first aid. Students may be referred by CTYI to other health care facilities e.g. private clinics, general medical practitioners or hospitals for conditions requiring additional diagnosis and care. In the event that a student needs to see a healthcare professional, we encourage parents to bring them. Where not possible, CTYI will make the necessary arrangements to take the student. Parents will be notified immediately in the event of a more serious illness or injury, or it is felt that the student should see a healthcare professional. Families are responsible for the costs of prescriptions and transport costs to and from medical centres and any health care beyond that provided free of charge on campus. Please note that these costs must be paid for immediately.

## What should I bring?

Specific information will be included in the Acceptance Pack that will be posted in April.

In general your child should bring warm, comfortable clothes for class, sports and other recreational activities. As the weather in Ireland is notoriously changeable, we suggest that students bring clothing which can be layered and also a warm, waterproof jacket or coat along with waterproof shoes for field trips and outings. (See What sort of clothes should I bring? in FAQ). They should also bring general class materials (paper, pens, pencils, notepads, calculators, etc.), towels and toiletries. bed linen is provided, however students must bring their own towels.

No water guns, bicycles, skateboards, large equipment (TV, etc.) or time consuming games such as video or computer games are permitted. Students may bring their mobile phone however their use is confined to times when students are not engaged in class or activities. CTYI highly recommends that parents take out insurance for these items. Rules concerning their use will be explained to students on their arrival to the programme.

## Advice to Parents

Some students approach their first experience at DCU Summer Scholars with a little trepidation. We would suggest that you try to encourage them to overcome these normal and natural apprehensions. However no matter how enthusiastic you may be about the programme, we do not recommend that you send very reluctant young people to Summer Scholars.

# Daily Schedule

Students are in class for four hours and forty five minutes each weekday. Class takes place between 10.00am to 3.30pm, with a short break around 11.00am, and 45 minutes for lunch.

10.00am	Class (includes a 15-min break)
12.30pm	Lunch
1.15pm	Class
3.30pm	Recreational Activities (optional, students may sign out at 3.30pm)
5.30pm	Sign Out

## Teaching Assistants

During the time they are not in class, students are supervised by their Teaching Assistants (TAs), and their time is highly structured. Each class has a dedicated Teaching Assistant. The TAs are usually university students, who are studying a similar discipline at university themselves. They are responsible for helping students in class as well as for leisure and sports activities and out of class supervision. In general, they help students adjust to life on the programme. They encourage a friendly and supportive atmosphere among the students and ensure that they observe the rules of the programme.

## Recreational Activities

A varied programme of sport and recreation has been arranged in conjunction with the academic programme. The recreational activities are supervised by the TAs, with students choosing from a wide range of options, which could include team and individual sports, board games, discussion groups, drama, reading etc.

## Sign In & Sign Out

Students sign in at their classroom each morning, and sign out at the Site Office when they leave class at 3.30pm or after activities at 5.30pm. There will be a designated person with whom students should sign out. Once signed in, students must not leave the campus at any time except with the expressed permission of the Director or senior staff member authorised for this purpose. Failure to comply with this regulation will result in immediate dismissal from the programme. Students off campus and unsupervised by a CTYI staff member are not covered by DCU insurance policy. We therefore accept no liability for them.



# Frequently Asked Questions

## **What if I withdraw from the programme before it begins?**

Refunds are not generally given to students who withdraw unless in very exceptional circumstances. Requests for refunds must be given in writing to the CTYI Director and are given solely at his discretion.

## **How much pocket money should my child bring?**

We suggest that parents give their child their normal amount of pocket money that they would have at home. Students may wish to buy lunch items on campus, or bring their own.

## **How many places are available on the Summer Scholars Programme?**

There are approximately 80 places available, 40 on each of the sessions.

## **When will I receive notification of acceptance for the course I applied for?**

You will receive notification of acceptance as soon as possible after the Application deadline.

## **What if I withdraw from the programme before it begins?**

Refunds are not given to students who withdraw, unless in very exceptional circumstances. Requests for refunds must be given in writing to the CTYI Director and are given solely at his discretion.

## **What certifications are received at the end of the course?**

All students who complete a Summer Scholars course receive a certificate.

## **How are subjects chosen for the syllabus?**

Our principal aim is to choose subjects which are both interesting and challenging for the students. We try to find material that students would not usually have access to in school. Typically courses in this programme (for students 12-17 years) cover first year university material.



# Terms and Conditions

Students who violate programme rules will be dismissed from 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.

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

CTYI accepts no responsibility for items lost/stolen or damaged on the premises. We recommend students leave valuables at home.

We do not return lost property so make sure when leaving that you bring everything with you.

**Places are allocated on a first come, first served basis.**

Incomplete application forms will be returned to parents by post.

All payments and instalments must be paid on time, as shown on brochure. CTYI reserves the right to cancel the booking without refund if this condition is not followed.

Fees are non-transferable.

Students and their families are liable for any damage they cause to university property

An online payment does not constitute an application on its own, and does not guarantee a place on any programme. You MUST complete and return your application form.

## Refunds

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

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

Written requests for a refund of Application Fees received up to and including 9th June will be considered.

Application Fees will not be refunded after **9th June 2023.**

No refunds will be made to students dismissed from the programme.

All application fees include a registration fee of €100. This €100 registration fee is non refundable.

## Policies

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

# Discipline

CTYI demands the same standards of behaviour which one would normally find in a caring well organised home. Cleanliness, honesty, co-operation and respect will be expected from all students. Rules concerning student conduct will be explained at the beginning of the session. Our rules are for the safety and well-being of all students, hence, we ask both parents and students to cooperate fully with the programme.

Students may be **immediately dismissed** from the course for any of the following reasons:\*

- Bullying, in person or via social media
- Possession or use of alcohol, drugs or a substance controlled by law during the summer programme
- Being off campus without specific authorisation
- Being in restricted areas of the campus (including parts of the Residential Building) unaccompanied by a CTYI staff member
- Violating or putting at risk the safety and well-being of any person
- Threatening or intimidating behaviour toward staff or students
- Taking a picture, video or audio recording of a staff member or student without their express permission

Students may be **subject to dismissal** from the course for any of the following reasons (on a case by case basis):\*

- Punctuality (applicable to all aspects of the course)
- Stealing
- Vandalism
- Bullying, in person or via social media
- Possession or use of tobacco or e-cigarettes
- Not attending satisfactorily to their academic work, including repeated absence from class
- Abusive language in verbal or written form to students or staff members
- Inappropriate behaviour on or off campus
- Using computing facilities for purposes other than assigned course work
- Remaining on campus after signing out, including any time after final sign out at 5.30pm

## In Addition

- Students may not contact a staff member on any social network unless the account is a registered CTYI one.
- Students should not interact with those who are not part of the programme during their time on campus
- Students should not use mobile phones or tablet devices at unauthorised times – i.e. during class/activities

## 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 receive the student. It is the responsibility of the parent/guardian to ensure that he or she or a substitute authorised to act on their behalf is contactable and available to receive the student in the event of dismissal. CTYI staff will assist in making travel arrangements for the dismissed student, and escort them to the airport or other departure point.

## Important to Note

Students who violate programme rules are subject to the disciplinary actions outlined above. No refunds will be made to students dismissed from the programme. Students and their families will be billed for any damage they cause.

\*Or for other reasons which in the opinion of the director are of a sufficiently serious nature to warrant dismissal

## Application and Fee Deadlines

**Financial Aid Deadline - Friday, 28th April 2023**

**Closing Date for Applications - Friday, 28th April 2023**

**Balance of Fees Deadline - Friday, 2nd June 2023**





## Closing Date for Applications

Friday 28th April 2023

### Post Applications to:

Summer Scholars Programme

CTY Ireland

Dublin City University

Dublin 9

## Contact Us

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Older Student Programme Manager

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