# Coláiste Muire

Senior Cycle

2020/21

## Senior Cycle Programmes

**Transition Year** 

Leaving Certificate

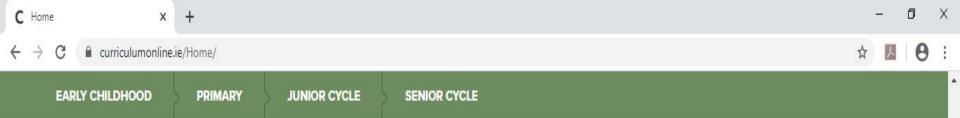
Leaving Certificate Vocational (LCVP) Leaving Certificate Applied (LCA)

## Useful websites

www.curriculumonline.ie

www.careersportal.ie

www.qualifax.ie





### We are changing the way we present the curriculum...

Starting with Junior Cycle English and for new subjects and short courses, you can now:

- view the curriculum in lots of different ways
- view examples of student work
- use the clipboard function to save to, a private curriculum library
- choose from a variety of assessment support options.

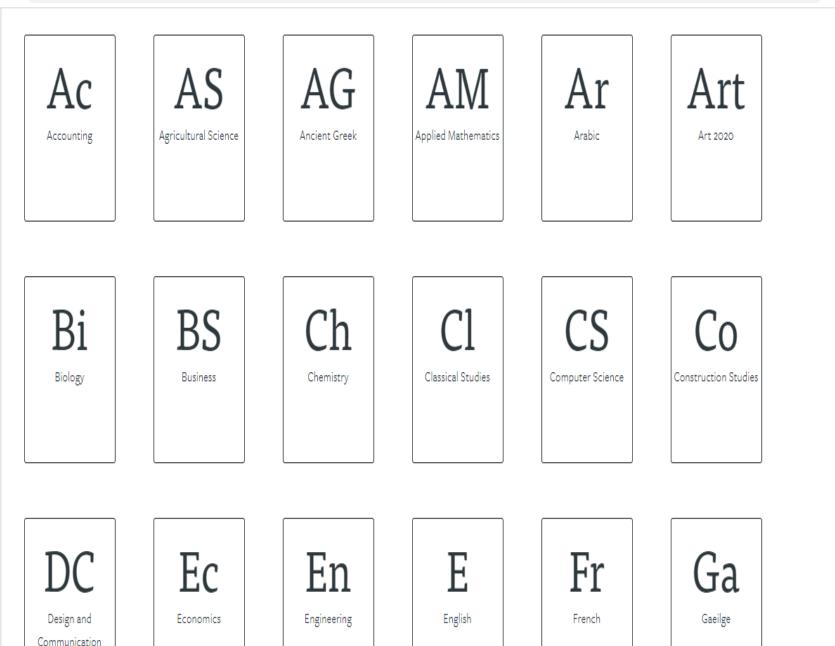


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	Watch the video on the right to learn how the site works and watch out for other subjects in Junior Cyclecoming online soon!           GET IN TOUCH			*

Early Childhood	Primary	Junior Cycle	Senior Cycle
		FRAMEWORK SUBJECTS	
AISTEAR FRAMEWORK	CURRICULUM	SHORT COURSES	SUBJECTS
THEMES	CURRICULUM AREAS	LEVEL 2 LEARNING PROGRAMMES	CURRICULUM

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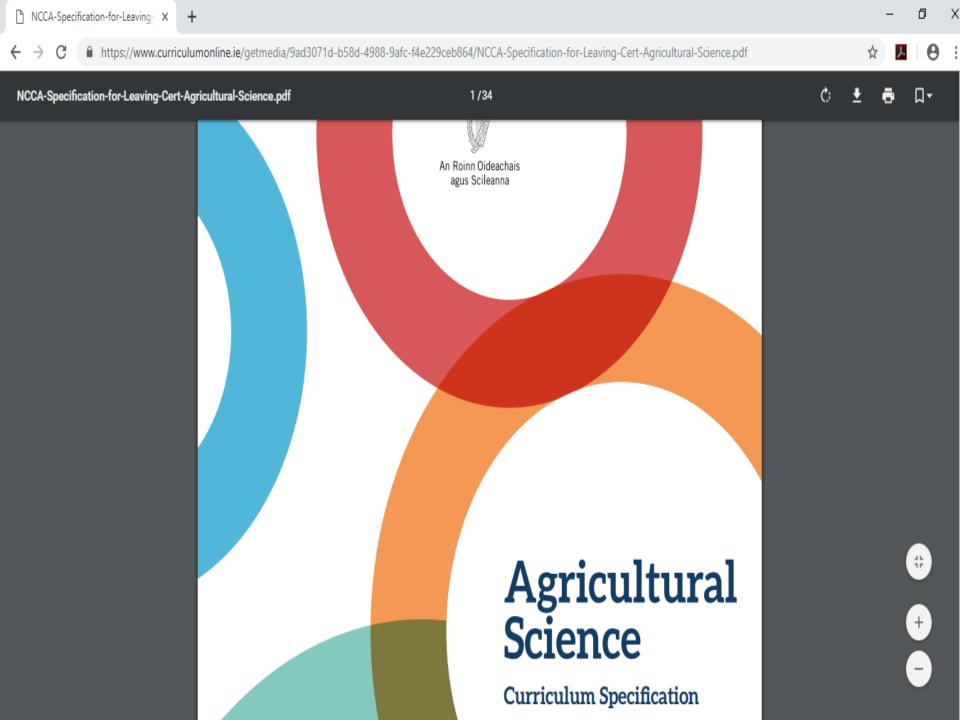
## **Agricultural Science**

Leaving Certificate agricultural science involves the study of the science and technology underlying the principles and practices of agriculture. It aims to develop knowledge, skills and attitudes that promote the sustainability of agricultural resources, and places emphasis on the managed use of these resources. Plants and animal types associated with agriculture are studied, and investigations are undertaken into such aspects as soil, ecology, plant and animal physiology, farm crops, farming practices, genetics and microbiology.

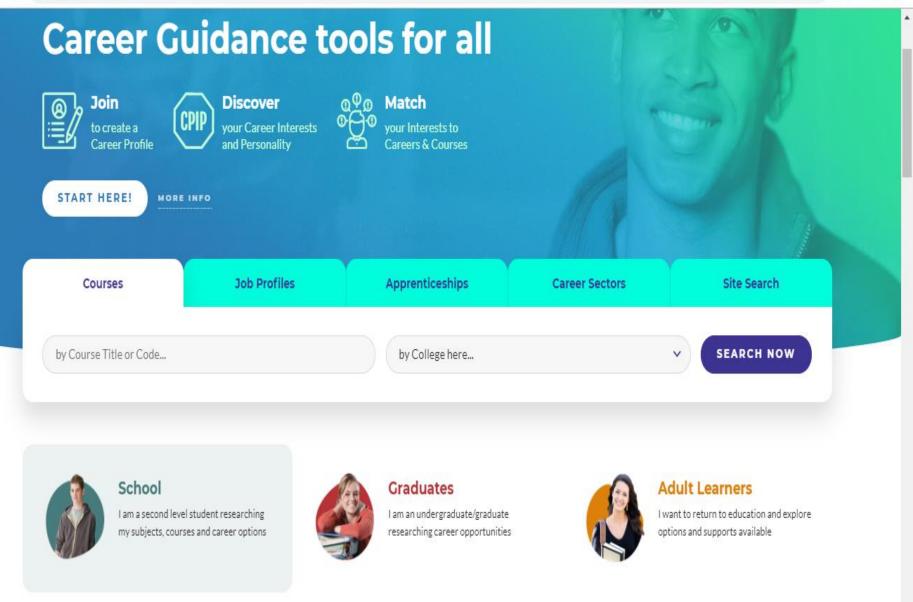
## CLICK HERE FOR THE FULL SPECIFICATION



View the specification here (PDF)



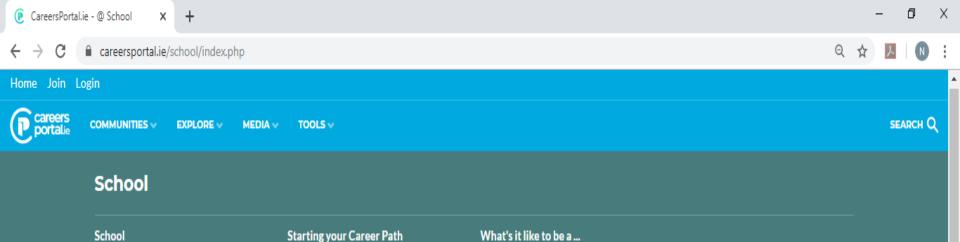
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### **CareersPortal @ School**

CareersPortal provides all the tools you need to help you find and develop your career. We believe you deserve the best, and encourage you to spend time discovering what makes you different and unique, so you can build your own future.

Here you will find links to our Junior Certificate, Transition Year and Leaving Certificate pages. Select the programme which is relevant to you and make use of the resources we have developed to guide you in exploring your future.



Junior Cert

Discover how Junior Cert subjects prepare you for your career, take our Study Skills test, and check out Subject Choices for Leaving Cert.



#### **Transition Year**

Get prepared for your Work Experience and discover the World of Work. Explore the skills you need for a successful career.



#### Leaving Cert

Explore all your options after school, including CAO and PLC Courses. Improve your Study Skills to maximise your results.

#### **DISCOVER CAREERS...**



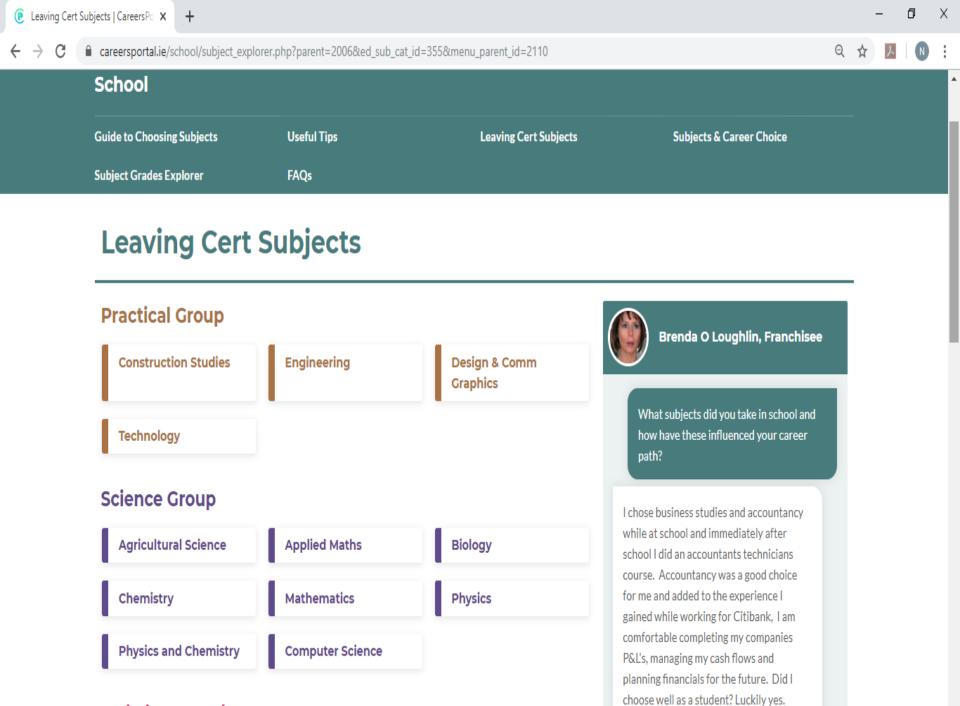
#### CAREER CHAT...



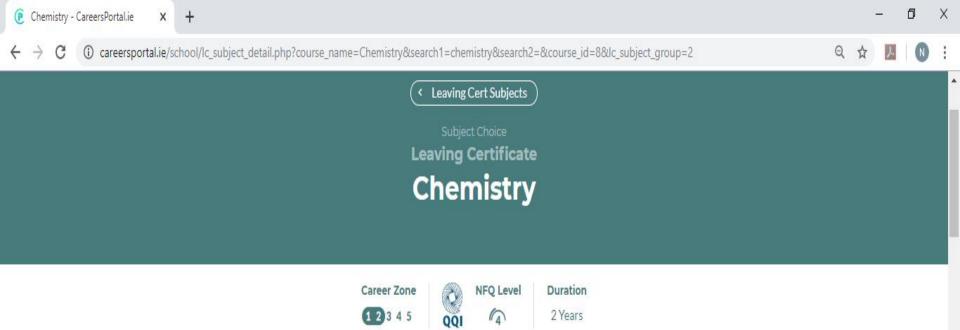


Fergal Donnelly, European Commission

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	Leaving Certificate	Leaving Cert Subjects	Education & Training Options	Going to College					
	Apprenticeships 🗸	Study Skills	Career Advice 🗸	Finding a Job 🗸					
	Junior Cert Transition Year Leaving C   DISCOVER CAREERS   DISCOVER CAREERS   Jessica Akomfrah, am make   Jessica Akomfrah, am make   Marketing Executive - Jessica Accessing the second	View All       IMPROVE YOUR STUDY         ing:       Improve Your Study         We have collected a number       Videos that contain very us to help you, along with a Study	DEC       NUI Galway Taste         Jay - Law       Day - Law         J30 AM       NUI Galway         DEC       NUI Galway         P30 AM       NUI Galway         DEC       NUI Galway         P30 AM       NUI Galway         P30 AM       NUI Galway         P30 AM       NUI Galway         P30 AM       NUI Galway	er CAO CourseFinder New Courses Restricted Courses Points Calculator CAO Course Worksheet Alert Lists CAO Handbook CAO Website					



#### **Artistic & Creative Group**





## Summary



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#### Course Overview Summary Grades Awarded The subject aims to provide a relevant course for students who will complete their study of chemistry at this level while, at the same time, providing a foundation course for those who will Course Overview continue to study chemistry or related subjects following completion of their Leaving Certificate. **Course Content** The Leaving Cert, course follows on directly from Junior Cert Science, and deals with more Exam Structure topics in a lot more depth. The course includes 28 mandatory practical experiments which must be completed in the lab, as well as a written paper including questions on the experiments and Career Possibilities examining the theory and applications of chemistry. There are an amount of calculations involved. Chemistry has been the second most popular science subject for some time now. Career Guidance Quick facts

 There is no element of continuous assessment but experimental copies must be available for inspection by State Examinations Commission

### INTERVIEWS

View All >

## What subjects did you take in school and how have these influenced your career path?

https://careersportal.ie/school/lc\_subject\_detail.php?course\_name=Chemistry&search1=chemistry&search2=&course\_id=8&lc\_subject\_group=2#tabs

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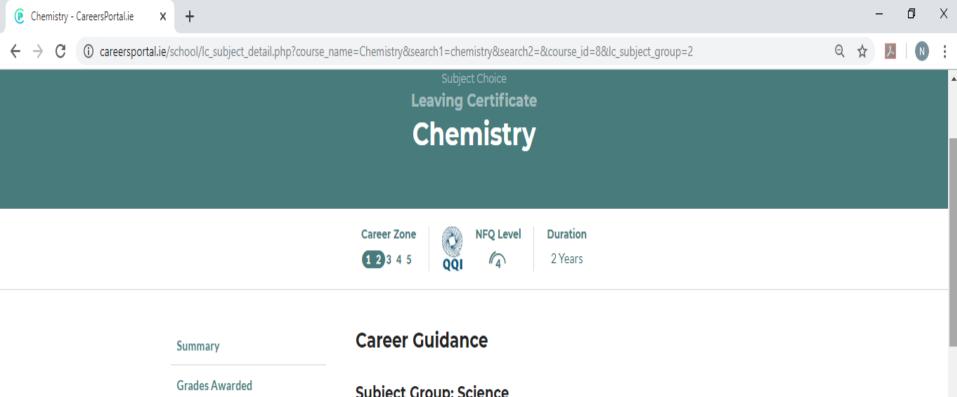
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Summary	Course Content
Grades Awarded	The syllabus consists of approximately 70% pure chemistry; the remaining 30% deals with the
Course Overview	social and applied aspects of chemistry.
Course Content	The syllabus is comprised of all the essential and relevant topics within general chemistry. The major topics involved include the following:
Exam Structure	1. Atomic structure
Career Possibilities	2. Volumetric analysis
Career Guidance	3. Organic chemistry 4. Water chemistry 5. Reaction mechanisms.
	There also is an option to be taken as part of the course which involves the study of atmospheric and industrial chemistry or the study of materials and electrochemistry.
	Experimental investigations are an essential part of the leaving certificate course. Each student must complete at least 28 experiments over the duration of the course.
	Experimental work is examined as part of the leaving cert exam and forms the basis for a minimum of three questions on the exam paper.

### **INTERVIEWS**

View All >



#### Subject Group: Science

**Course Overview** 

**Course Content** 

Exam Structure

**Career Possibilities** 

Career Guidance

These subjects demonstrate how to explore nature using carefully planned methods, and teach the basic methods and findings of scientific investigation.

#### **Required for 3rd Level?**

This subject may be essential for entry into some Third Level courses. Click on the link below to view courses that may require this subject for entry:



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$\  \   \leftarrow \  \   \rightarrow \  \   G$	qualifax.ie/qf/Q	FPublic/?Mainsec=courses&Subsec=mir	n_search&id=1&CRAsort=&flagCourseSelection=&action=search&display=&SUB_ID=31&COL_ID=0&PRV_ID=0&	☆	<u>۲</u>   N
Select Courses To View					

There is a total of 201 courses that match your search requirements. Please select one of the options below to view your results.

Show me the courses that:

Definitely requires: Subject Chemistry.- Total of 7 courses

O May require: Subject Chemistry. - Total of 194 courses

O Does not require Subject Chemistry. - Total of 1376 courses

View Courses

New Search

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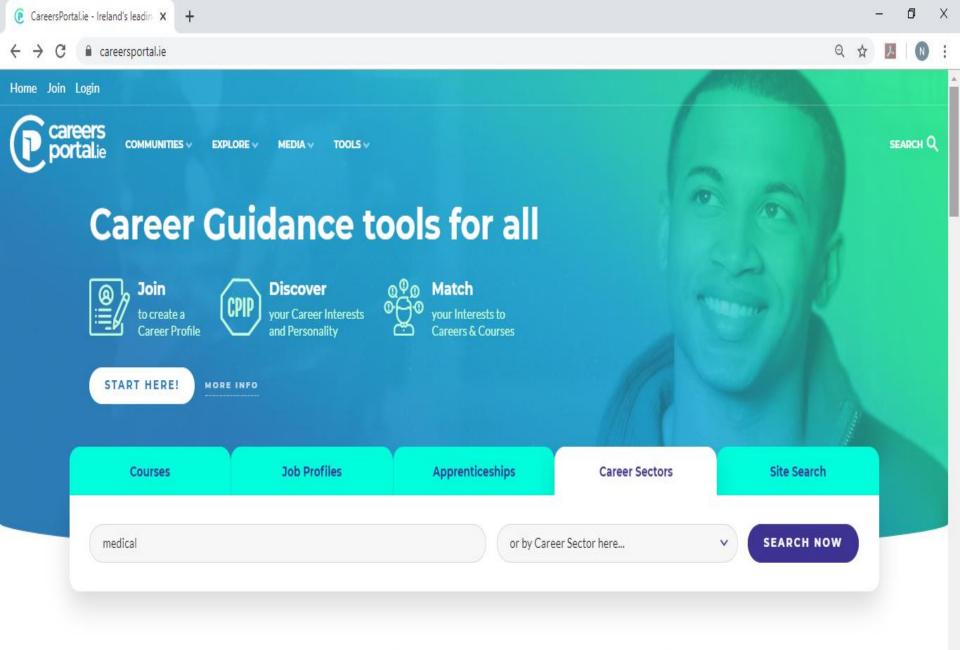
#### New Search

Click on the Course to get details about that course. Click on the Course Provider to get details about that course provider.

#### Search Criteria: Subject Chemistry. (Definitely need subject).

Showing 1 to 7 of 7 results

Code	Course	Course Provider
CK702	<u>Dentistry</u>	University College Cork
TU870	Human Nutrition & Dietetics	TU Dublin - City Campus
CK701	Medicine - Undergraduate Entry	University College Cork
RC005	Pharmacy	Royal College of Surgeons in Ireland
CK703	Pharmacy	University College Cork
CK707	Science - Medical & Health Sciences	University College Cork
DN300	Veterinary Medicine - Undergraduate Entry	University College Dublin





#### School

I am a second level student researching



## Graduates

I am an undergraduate/graduate



#### **Adult Learners**

I want to return to education and explore

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## 13 Results



## **Biological Sciences**

Biotechnology is an increasingly important area, featuring in the creation of medical devices, food production, energy creation and even construction.



## Medicine

Becoming a qualified medical practitioner is a long road, the first thing you'll need is a medicine degree from a recognised course. Once you have this, you need to register with the Medical Council and then complete a period of internship.

Biological, Chemical & Pharmaceutical Science



#### 👰 Medical & Healthcare





## Nursing & Midwifery

Nurses are the frontline carers of the healthcare world. They help patients reach the best quality of life possible while going through an illness and assist them in making a full recovery. Midwives work with pregnancy and childbirth, caring for mother and child.

#### A Medical & Healthcare



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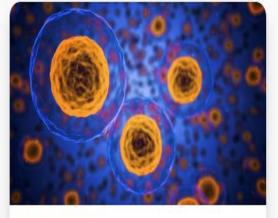
## **Medical Diagnostics**

There are many other vital roles in the healthcare profession including those who work in diagnostics, therapeutics professionals, radiographers, lab technicians, and cytopathologists.



## Dentistry

There are many specialities dentists can pursue, they could help patients with the positioning of their teeth as an Orthodontist or work with preventing gum disease as a Periodontist.



## **Clinical Trials**

Clinical trials occur in phases, where a drug is tested on patients or on healthy volunteers.

#### Medical & Healthcare













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careersportal.ie/sectors/sector\_search.php?s\_keyword=medical&s\_sector\_id=

## **Medical Devices**

Career opportunities in the world of medical technologies range from the research, design and manufacture of simple consumables such as bandages, to electrically active implantable products such as artificial hearts, cardiovascular stents, orthopaedic knees, wheelchairs and contact lenses.

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## **Plastics & Polymer**

The plastics industry in Ireland is an important sub sector of MedTech. It includes suppliers of raw materials, plastic processors and service providers.

Biomedical Technologies & Medtech







## Pharmacy

A pharmacist is a health professional with expertise in the science of medicines, which includes the development, use, and the supply of medicines. Titles include hospital pharmacist, clinical pharmacist and pharmacologist.

A Medical & Healthcare



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### **Biomedical Technologies &** Engineering

Biomedical Technologies& Engineering involves research to develop new technologies for medical purposes, such as diagnosing illnesses or assisting people with disabilities. The maintenance of existing technology is also an important part of the field.

N Biomedical Technologies & Medtech



### **Research and Development**

Biomedical and Medtech researchers push at the boundaries of technology to find new methods to advance healthcare.

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#### Paramedics

A paramedic is a person trained to give emergency medical care to people who are seriously ill with the aim of stabilising them before they are taken to hospital.

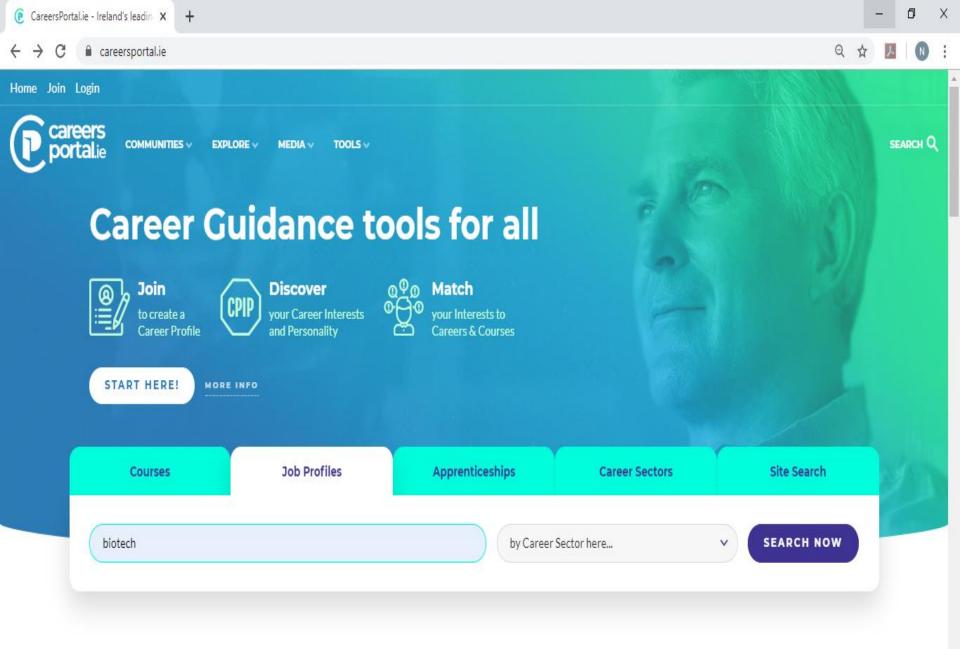
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ABOUT US CONTACT US **PRIVACY STATEMENT** 

TERMS & CONDITIONS SITEMAP







#### School

I am a second level student researching



### Graduates

I am an undergraduate/graduate



#### **Adult Learners**

I want to return to education and explore

Filter by:

CAREER TITLE

My favourites

CAREER TYPES

Occupations Apprenticeships

JOB ZONES

Zone 1 Zone 2 Zone 3 Zone 4 Zone 5

biotech

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Example: "ani" will find animal and mechanical.

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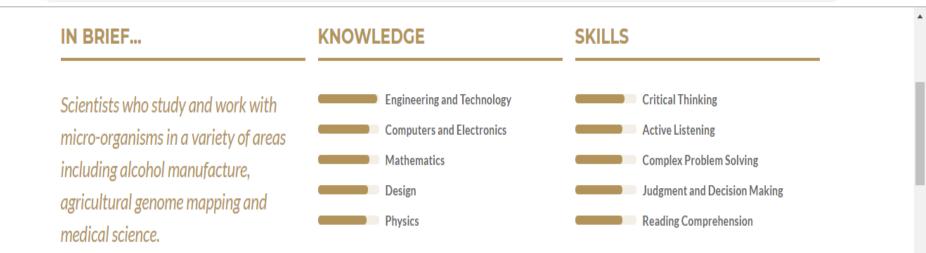
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CAREER TITLE	JOB ZONE		
Biotechnologist	1 2 3 4 5		
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CAREER SECTORS

- ✓ Agriculture, Animals & Food
- ✓ STEM, Environment & Construction
- ✓ Medical, Wellbeing & Sport
- ✓ Creative Arts. Fashion & Media



In Summary
The Work
The Person
Entry Requirements
Pay & Salary
Labour Market Updates
Useful Contacts

### The Work - Biotechnologist

Biotechnologists make products with a biological ingredient or action, like vaccines, antibiotics, drugs and hormones.

Biotechnologists use the techniques of molecular biology such as genetic engineering, to change the way an organism grows or behaves. For example, insulin, a chemical normally made in the human body (but lacking in people with diabetes) has been made from genetically engineered bacteria. It encompasses an ever-growing range of laboratory techniques for the attention and manipulation of molecules, genes and cells.

In agriculture, biotechnologists may change genes to increase crop yields, or make crops more resistant to pests and disease. They use micro-organisms, such as bacteria or yeasts to perform



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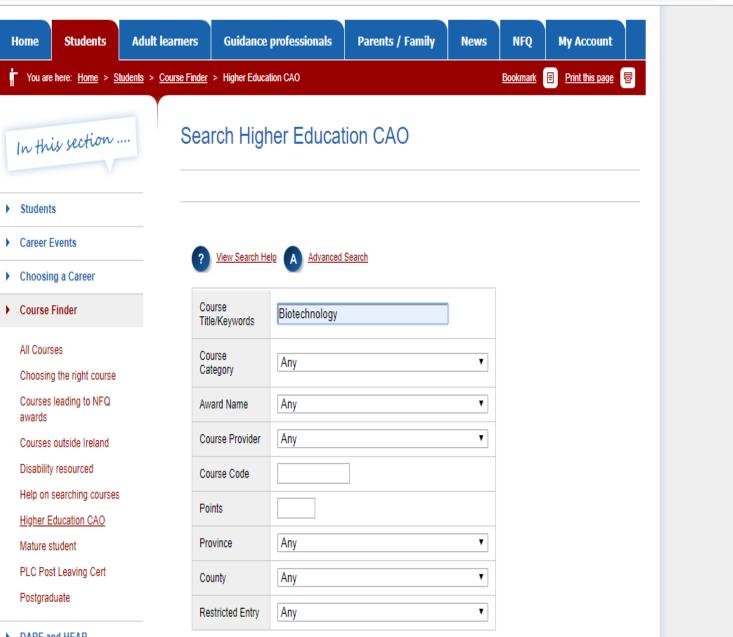
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<ul> <li>Career Events</li> <li>Choosing a Career</li> <li>Course Finder</li> </ul>	below. Clicki it may be new some options	All Courses. You may however, prefer to look at one of the course types listed below. Clicking on any of these links will give you a full list of all the courses, it may be necessary to reduce that list by selecting Refine Search and picking some options from the menus. Adult Literacy - Literacy tuition to adult students.								
All Courses Choosing the right course		ip - Combines and alternates lea n education or training centre.	Internation	International Students						
Courses leading to NFQ awards	Back To Educ	View My Ta	View My Tagged Courses							
Courses outside Ireland Disability resourced	_	CAO - Third level Higher Education courses in Ireland.				oice				
Help on searching courses	Disability Resourced - Third Level courses for students with disabilities. es <u>Higher Education Direct Entry</u> - Third Level courses.					Where are the jobs?				
Mature student		International - Information on studying in Ireland.								

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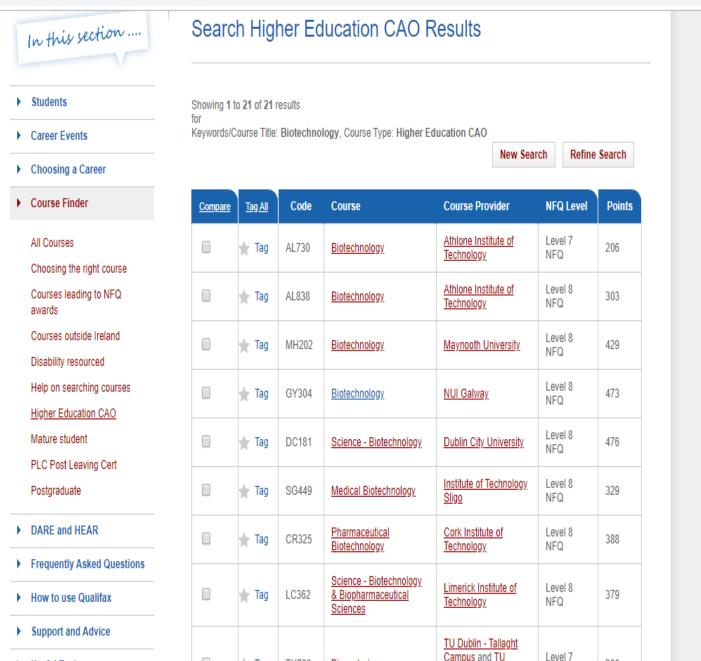
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Link to Course Fee	Web Page - Click Here	
CAO Application Dates and Fees	+Early online application (discounted): Fee €30 Closing Date: 20 January 2020 at 5:15pm Normal online application: Fee €45 Closing Date: 1 February 2020 at 5:15pm Late online application - restrictions apply (see page 3 2020 CAO Handbook): F	
Course Content	-Why Choose This Course? Biotechnology uses our knowledge of biology to solve real-world problems. It is about making use of molecules, cells and organisms to provide medicines and foods, enable forensics or reverse pollution Class sizes in biotechnology are small, which means you get to know your classmates quickly and interact more with your lecturers The language (French or German), communication and business modules help our students stand out from other science graduates The third-year placement option enables students to spend 3–6 months in research labs in continental Europe or in biopharma industry in Ireland	y
Subjects Taught	+Your Course Year By Year + Year One Expand • Biotechnology Concepts and Skills • Biology • Chemistry • Statistics and Probability, and Programming • Language (French or German) Year Two • Biotechnology Skills • Biochemistry • Mic	
Comment	You Might Also Like • GY318 Bachelor of Science (Biopharmaceutical Chemistry) • GY303 Bachelor of Science (Biomedical Science) • GY301 Bachelor of Science	

# Leaving Certificate

The Leaving Certificate is a two year programme.

Students study seven subjects for their Leaving Cert. Examination.

Subjects can be taken at ordinary or higher level.

## 7 Exam Subjects

Core Subjects (4) Irish, English, Maths, French or German

Optional Subjects (3) Biology, Chemistry, Physics, Ag Science Accounting, Business, Economics History, Geography Home Economics Technology, Music , Japanese, Art, PE

## **Subject Choice**

## **Subjects**

Essential subjects?

✓ that you are interested in and prepared to work at..
✓ that suit your strengths and talents...
Particular combinations...

Manner in which subject is assessed...

## Grading Scheme 2017

points	Higher Level	%	Ordinary Level	points
100	Hı	90 – 100		56
88	H2	80 - 89		46
77	H <sub>3</sub>	70 – 79		37
66	H4	60 – 69		28
56	H <sub>5</sub>	50 – 59		20
46	H6	40 – 49		12
37	H <sub>7</sub>	30 - 39		Ο
О	H8	0 – 29		0

+25 Bonus points for H1 – H6 Maths

Foundation Maths  $F_1 = 20$ ,  $F_2 = 12$  (certain institutions)

## **Subject Requirements!**

A Science subject required for entry to all medical, paramedical, nursing, science and engineering degrees.

Two Sciences are required in

**TCD**- Pharmacy, Physiotherapy, HHD,Sciences... (2H4) Med, Dent (H3 & H4)

**UCC**-Med, Dent, Med & Health Sc, Pharmacy (2H4)

#### **Chemistry** essential

Human Nutrition TUD	H4
Dentistry UCC	H4
Medicine UCC	H4
Medical & Health Sc UCC	H4
Pharmacy UCC	H4
Pharmacy TCD	H4
Pharmacy RCSI	H5
Veterinary UCD	H5

#### UCAS

- Physics and Chemistry are more numerate sciences. In other words there are a lot more calculations, formulae and equations to be worked on. So ability in maths and a facility with numbers would be needed for these two.
- Biology is more descriptive and involves a lot of learning of names and terms and parts.



Biology is the science of life and living things. It forms a knowledge base for careers ranging from Oceanography and Ecology to Medicine and Biotechnology.

Students explore the world of living things from micro-organisms to humans.

Uses practical activity and investigation to develop skills and knowledge. Topics such as DNA profiling / genetic screening, physiology and biotechnology

22 mandatory experiments, 3 examined (2) Ecology field trip 5<sup>th</sup> yr (Portfolio)

#### **Essential for:**

- Genetics UCC H4
- Human Health & Disease TCD H4

#### **Recommended for**

- Nursing (all)
- Medical & Health Sciences
- Public Health Science
- Biomedical Science
- Psychology

- Marine Science
- Environmental Science
- Biotechnology / Industrial Biochemistry
- Food Science
- Beauty Therapy
- Horticulture
- Agriculture
- Athletic Therapy & Training
- Health & Leisure / Physiology
- Sport & Exercise Science
- Medical Technology LIT
- Clinical Technology LIT

## Chemistry

"....Chemistry deals with the composition of matter, the laws of Chemical change and the relationship between the properties and composition of substances.

In other words it involves everything we use, wear, consume including medicines, plastic, preservatives etc."

Students have to learn the chemical components of 28 mandatory experiments. 2 questions on practical work must be answered on L.Cert paper.

### **Essential for:**

- Human Nutrition TUD H4
- Dent UCC H4
- Med UCC H4
- Medical & Health Sc UCC H4
- Pharm UCC H4
- Pharm TCD H4
- Pharmacy RCSI H5
- Veterinary UCD H5

### Useful for:

- Food Science
- Nutritional Science
- Public Health Nutrition
- Forensic Science
- Pharmaceutical & Industrial Chemistry
- Chemical/Biochemical/Process
   Engineering
- Nursing
- Pharmacy
- Medical and Health Sciences
- Environmental Science
- All Science courses
- U.C.A.S



- "....Physics deals with the laws and forces governing natural phenomena which include heat, light, electricity and magnetism. It uses maths and equations to describe and predict events and phenomena. It is of key importance in technology, engineering and paramedical careers e.g.: Radiography/ Physiotherapy."
- 24 core mandatory experiments of which 4 are offered on L. Cert paper.

70% Theory & calculations30 % Experiments

#### Essential for:

Theoretical Physics TCD H3

#### Recommended /Useful for:

- Engineering
- Physics/Astrophysics
- Radiography
- Clinical Measurement Science
- Physiotherapy
- Optometry
- Pilot
- Architecture
- UCAS

## **Agricultural Science**

.....is the study of the science and technology underlying the principles and practices of modern agriculture.

New syllabus September 2019!

# Agricultural Science (4 strands)

### 1. Scientific practices

Hypothesising, Experimenting, Evaluating evidence, Communicating, Working safely

#### 2. Soils

Role and function of soil and to appreciate its importance in providing for the growth of grass and other crops. (ecosystem services provided ..

### 3. Crops

Role and importance of a variety of crops, including crops as forage and crops for human consumption, their mgt and production, and their contribution to future sustainable development.

#### 4. Animals

Includes traditional farm animals such as cattle, sheep and pigs and also other animals of agricultural importance and interest, eg horses and poultry.



Written 75%

Coursework 25%Individual investigative study

....a topic of agricultural significance is investigated in greater depth ....based on a thematic brief which is set by the SEC ....students gather and process data, evaluate evidence, and develop arguments

- eg Farm Safety
- eg Grassland Utilisation

Accepted as a Science subject for most science, medical, healthcare and nursing courses

#### Except

- UCC Dentistry, Medicine & Pharmacy
- RCSI Pharmacy
- TCD Radiation Therapy, Human Health & Disease

#### • Useful

- Agricultural Science
- Veterinary Medicine/Nursing
- Veterinary Biosciences / Bioveterinary Science
- Animal Science
- Dairy Business
- Forestry
- Agri- Environmental Sciences
- Horticulture, Landscape & Sportsturf Mmgt
- Science with concurrent Teacher Ed (Biol with Chem or Agricultural Science)

## Accounting

- Concerned with the preparation, recording, extraction, presentation & analysis of financial info for the purpose of making economic decisions.
- Course also involves a Management Accounting section where the student will learn how to analyse business costs and how to prepare budgets.

#### Essential for: • Commerce (Accounting) NUIG (H4)

#### Highly recommended for:

- Accountancy courses
- Business Studies / Commerce
- Financial Maths
- Office Information Systems

### Useful for

- Hotel Management
- Marketing / Management
- Taxation Consultancy
- Business Information Systems
- Insurance
- Business & Law
- Reception / Hotel Front Office
- Auctioneering / Valuation Surveying
- Advertising
- Journalism
- Quantity Surveying

## Economics (5 strands)

What is economics about?

Economics as a way of thinking
The economic concepts of scarcity & choice
Economic, social & environmental sustainability

How are economic decisions made? The market economy / The consumer / The firm / Government & Intervention

What can markets do? Market structures / The labour market / Market failure

What is the relationship between policy and economic performance? National income / Fiscal policy and the budget framework / Employment & unemployment / Monetary policy and the price level / Financial sector

How is the economy influenced by international economics? Economic growth & development / Globalisation / International trade & competitiveness

## Assessment components

- Written exam (80%)
- Research study (20%)

- Research study will be based on a brief issued annually by SEC.
- The research study will assess the students' ability to use the knowledge, concepts and skills developed in their study of economics to evaluate information and data and make informed conclusions.

#### **Useful for:**

- Banking
- Finance degree
- Financial Maths & Econ
- Law
- Social Science
- Hotel Management
- Journalism
- Marketing
- Accountancy/Business/ Commerce
- Business Information Systems
- Architecture
- Environmental Science

#### **Often offered in third level:**

- Politics
- Sociology
- Modern Languages
- European Studies
- History

## **Business**

Looks at

- People in Business
- Setting up a business and developing a new product or service
- Skills & activities necessary for good management practice
- Impact of technology, foreign trade, global firms & competition, business structures & the national economy

### Useful for:

- Banking
- Business Studies
- Marketing & Management
- Retail Management
- Human Resource Management
- Insurance
- Taxation
- Hotel Management
- Reception / Hotel Front Office Management
- Culinary Arts
- Office Information Systems

### Technology

A wide range of new Technologies are now part of everyday life.

Technology gives students a basic understanding of the principles of design, manufacture, and project management. Students studying Technology-

Design and manufacture projects using ICT & a wide variety of materials, components and equipment – including computer controlled machines.

Become familiar with Technological developments in areas such as ICT, mobile communications, digital media, etc.

### **Structure of Technology Course**

#### **Core (Study all)**

•Design

Materials

•ICT

•Structures & Mechanisms

Electronics

Graphics

•Project Management

#### **Options (Pick 2)**

**·ICT** 

Electronics

•Control Technology

Materials

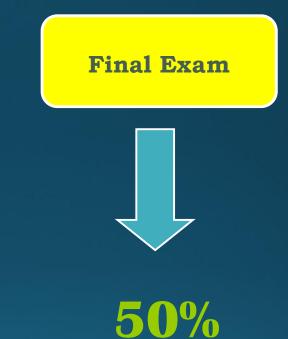
Manufacturing
 Systems

Design Folio & Artefact



Design Folio & Artefact

50%



Thematic brief for project is issued in October of Leaving Cert year. Design Folio & Artefact executed in class from October until March.

### Thematic Brief 2013 (HL)

"The smallest act of kindness is worth more than the grandest intention" (Oscar Wilde)

Fundraising is the process of soliciting and gathering voluntary contributions for worthwhile causes.....

### Thematic Brief 2013 (contd.)

With a focus on modern materials, processes and technologies

Design and make an interactive device which facilitates the collection of donations for a charitable cause of your choice.

The device should stimulate interest in the identified cause and encourage the giving of donations.....

Your solution should include electro-mechanical movement in operation and should be well presented.

### Fundraising

>Anna has designed a coin box in the shape of a flower for the sunshine charity. When a coin is inserted the flower 'grows' and it plays the tune 'you are my sunshine'.



### Fundraising

Ashling picked Trocaire as her third world charity and depicted an image from a developing country in her coin donation box. When a coin is inserted into the well, the disc rotates displaying a message, the lights are activated and music is played.



### Fundraising

Eilis has picked the ISPCA as her chosen charity. When money is inserted into the roof of the kennel, a cat comes out the door and music plays. The cat retreats again after a few seconds.



#### Fundraising

Alanna designed a fundraising box in the shape of a sheep for the charity Gorta. When coins are inserted into the sheep the mouth moves and it 'baa's



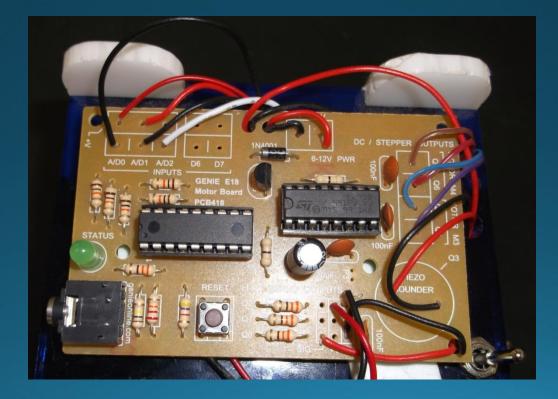
#### Fundraising

Rianat designed a fundraising coin box for the Jack & Jill Foundation based on the Jack & Jill Nursery Rhyme. When a coin is inserted into the slot music plays and 'Jack & Jill go up the hill'



### **Operation of Projects**

The projects you have seen contain a PIC (Peripheral interface controller) and are programed using a computer. The programme is then downloaded to a chip contained in the project.



Thematic Brief 2020 More than half of us live in cities. By 2050, two thirds of all humanity will be urban dwellers. Sustainable development cannot be achieved without significantly transforming the way we build and manage our urban spaces. (Ref. United Nations Development Programme.)

Some examples of areas where technologies can contribute to sustainable cities and communitie's are:

- Public transport
- The worlds of work, business and education
- Enhancing public and communal spaces
- Urban planning and management
- Energy generation, distribution and use
- Waste management and recycling.

In this context and with a focus on modern materials and processes, design and manufacture a working model of a device, system or technological aid that would positively impact the sustainability of a city or community. Your solution should include an electro-mechanical element and should also be well presented.

### Subject requirement

Technology is now accepted in place of a science subject for entry to

Engineering – NUIG, UCC, Maynooth
Some Science / Engineering – UL, D.I.T.

### I have not studied Technology (J Cert) ?

Technologically minded

Creative – Prefer problem solving to rote learning

Always "fixing things"

Comfortable with numbers and formula

Graphcally inclined – Argos assembly instructions

Organised – time management of project

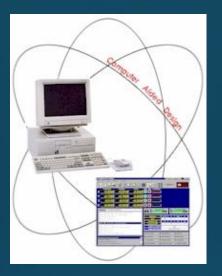
## **Possible Career Paths**



Engineering

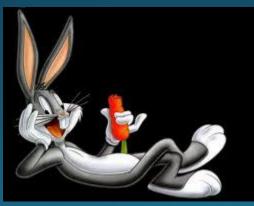


Planning & Environmental Management



I.C.T, Graphic Design & Multimedia

Web Design



Animation / games development



**Product Designers** 



Education (Technology!)

## Home Economics S+S

#### Core

- Food Studies
- Resource Mgt & Consumer Studies
- Social Studies

#### Elective (1)

- Textiles, Fashion & Design
  Social Studies
- SOCIAI SLUUIES Homo Docian & M
- Home Design & Mgt

#### 20% coursework journal submitted prior to exam (4 projects)

#### **Useful for:**

- Bakery & Pastry Arts Mmgt
- Culinary Arts
- Hospitality Studies
- Hotel Management
- Human Nutrition & Dietetics
- Public Health Nutrition
- Food Innovation & Enterprise
- Food Marketing & Entrepreneurship
- Food Science
- Nutritional Science
- Environmental Health
- Occupational Therapy
- Fashion Design
- Social Science
- Social Studies/Childcare

### A good Home Economics Student displays....

- An interest in cooking, balancing flavours and tastes, and nutrition with value for money.
- An interest in clothes design, materials, styles and even a desire or skill in making some.
- A flair for design of houses, kitchens and other areas to be functional and effective.
- An informed interest in current affairs, social issues and family life and a capacity to write on these supporting their views.

# Geography

- ...study of people, their environment and the interaction between the two.
- Topics such as rocks, soils, oceans, population movements, map reading and economic activities.

### **Geographical Skills**

- Info Gathering: map reading, statistics, charts
- Presenting Info: using diagrams, maps, writing
- Evaluating Info: fact from opinion, informed judgements, solutions to problems.

Geographic Investigation (20%) ....

Prepare in May Fieldwork Sept - Nov Group work Direction / Instruction

### List of Geographical Investigation Topics for 2020

- Undertake a comparative study of the demographic profile of two local residential areas.
- A study of the impact of the European Union on economic activity (primary, secondary or tertiary economic activity) in a local area (urban or rural).
- Carry out an investigation of the factor(s) that influence traffic flow patterns in a local area.
- ■Water pollution A local study.
- A study of the impact of the geomorphic processes of transportation and deposition on the formation of any ONE landform.
- An investigation of the impact of human activity on geomorphic processes in a fluvial or coastal or glacial environment.

### Accepted as: Science subject in

#### TCD

Pharmacy
Biological & Biomedical Sciences
Chemical Sciences
Geography & Geoscience
Physical Sciences

#### UCD •Science Degree

### Useful for

- Archaeology
- Civil / Environmental Engineering
- Architecture
- Meteorology
- Tourism/Heritage studies
- Horticulture
- Agriculture
- Planning & Environmental Mmgt
- Marine Science
- Earth & Ocean Sciences
- Environmental Science
- Auctioneering/Estate Agent



Has moved away from politics to encompass social and cultural history. (1492 – 1993)

...more choice, research work, less emphasis on memorising...

- Special Topic Q (20%) .... Submitted by April L.C
- Europe ( 6 ) / Ireland ( 6 ) select 2 from both!
- Document based question (Dictatorship & Democracy)

...exam < 3 hrs ...

# **Special topic**

Draft in 4<sup>th</sup> year (1500)

... of historical importance...

3 sources (e.g. books, documentation, newspaper articles, interview, websites..)

#### Topics...

- Coco Chanel her influence on women's fashion.
- Irene Sendler saving Jewish children in WW2.
- Siege of Jadotville 1961 an attack on Irish peace keepers in the Congo
- Berlin Olympics 1936
- The Theft of the Crown Jewels by Colonel Thomas Blood in 1671

### Useful for:

- History, Politics, Sociology
- Journalism
- European Studies
- Law
- Tourism/Heritage Studies

### Art

Useful for: Art & Design Animation Advertising Architecture Marketing Occupational Therapy Product Design & Technology Primary Teaching

Fashion Design Film Studies Film & Documentary Photography Early Childhood Care & Ed Creative Media Technologies Digital Media Design Art Therapy



Life Drawing (1 hr) Craft / Design (5/2 hrs) Imaginative Composition / Still life (2.5 hr) May

History of Art (written exam) 150 / 400 marks June

Change to practical component... present 5<sup>th</sup> yrs

Imaginative composition or still life and Craft or Design Jan – Mar (10 weeks within school)

Life sketches (13%) & History / Appreciation of Art (37%) June L.Cert

## Music

Listening 25%

4 set works, Irish music & general listening skills

#### Composition 25%

Melody writing and harmony

Practical 25% (Mar / Apr )

Play or sing Play 3 on 1 or 2 on 2. Groups also!

<u>Plus</u>

**Elective 25%** in one of above

<u>Listening</u> - Research a topic e.g. Film music

Composition - Submit a portfolio of compositions

<u>Practical</u> - Perform double the required amount of pieces for the Core Practical or option of Music Technology (Sibelius) or Conducting the school choir.

### Useful for:

- Music Degrees
- Performing Arts UL (Irish Music, World Music, Voice)
- Music Technology
- Primary Teaching
- Speech & Language Therapy
- Film Studies
- Theatre & Performative Practices UCC
- Drama Theatre & Performance Arts NUIG
- Arts Administration
- Music Therapy



Communicative Proficiency (greetings, personal details..)

Language Awareness (spoken & written text)

Cultural Awareness (everyday activities, customs, entertainment..)

### **3**<sup>RD</sup> Level Courses

World Languages UCC Applied Languages UL Business Studies with Japanese UL Law Plus UL Applied Languages & Translation Studies DCU

# Physical Education (PE)

Aims to develop the learner's capacity to become an informed, skilled, self-directed and reflective performer in physical education and physical activity in senior cycle and in their future careers.

Assessment Physical activity project Performance assessment Written exam

20% (H & O) 30% (Common) 50% (H & O)

....must complete the physical activity project and performance assessment in **two different** activities!

# Physical activity project (20%)

Learners may choose to complete the physical activity project in one of following roles

- Performer
- Coach/choreographer

Project should span 8 – 10 weeks

#### **Digital format**

#### 4 sections

- Performance analysis
- Identification of 4 performance goals.
- Evidence of ongoing training/practice and reflection.
- Concluding analysis

## Performance assessment (30%)

- Students select one of three selected physical activities being studied by their class in LCPE (Adventure activities, Artistic and aesthetic activities, Athletics, Aquatics, Games, Personal exercise and fitness.
- Learners are required to demonstrate knowledge and understanding of the principles of play/performance, an understanding of the rules and conventions of the activity and adherence to safe practice before, during and after the performance, fully competitive and/or conditioned practices.
- The performance is captured digitally by the learner and is captured in sessions designed to demonstrate the learner's best personal performance in fully competitive and/or conditioned practices or performance settings.

# Written Exam (50%)

Half of the marks available for the course will be determined by a written examination, areas it will cover include the following

- Understanding of the factors which affect participation and performance in physical activity and the relationships between them
- A **case study** requiring students to apply their learning to a physical activity.

### Leaving Cert. Vocational Programme

In addition to the 4 core and 3 optional subjects offered as part of the Leaving Cert, students pursuing the Leaving Cert Vocational Programme study two link modules

#### Preparation for Work

Local employment opportunities Job-seeking skills Career Investigation Work Placement

#### **Enterprise Education**

Enterprise skills Local Business Enterprises Local Voluntary Organisations / Community Enterprise An Enterprise Activity

### Selection of students for LCVP

To be eligible for the above programme students must select one of the following combinations of optional subjects:

- Phy & Tech
- H.E., Ag Sc., Biol (any 2)
- Biol or Chem or Phy (any 2)
- Ag Sc & Chem or Phy
- Ag Sc & Acc or Econ or Bus

- Ag Sc & Tech
- Tech & Bus or Acc or Econ
- H.E. & Bus or Econ or Acc
- Art & Bus or Acc or Econ
- Music & Bus or Acc or Econ
- Acc or Bus or Econ (any 2)
- H.E. & Art

### Assessment / Certification

Portfolio of Coursework 60% Written Exam 40%

<b><u>Certification</u></b>		
Distinction	(66)	
Merit	(46)	
Pass	(28)	

H4 (60<70) H6 (40<50) O4 (60<70)

# Leaving Cert. Applied (LCA)

Leaving Cert. Applied focuses on the needs and interests of the students using a variety of methodologies.

It is a self contained two year course designed to meet students needs not adequately catered for by either the Leaving Certificate or Leaving Certificate Vocational Programme.

# Curriculum

### Vocational Preparation:

- Vocational Preparation and Guidance (incl. wk exp)
- \*English and Communication

## Vocational Education: \*Mathematical Applications \*Vocational Specialism IT & OACC

General Education:
Arts Education
\*Social Education
\*Languages
Leisure & Recreation

Elective CoursesHair and BeautyScience

### Course Design / Assessment

Sessions: (4) September – January February – June

3 modes of Assessment Modules (44) – 62 Credits (31%) Task (7) – 70 Credits (35%) Final Examination – 68 Credits (34%)

Total: 200 Credits (100%)

# Certification

Three Levels:

- Pass 60 69%
- Merit 70 84%
- Distinction 85 100%

(120-139 credits) (140-169 credits) (170-200 credits)

