



Senior Cycle Options January 2018

FOR 2018-2019

Presentation Secondary School
Listowel
Co. Kerry

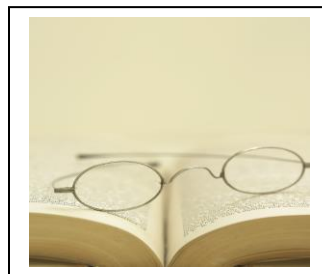
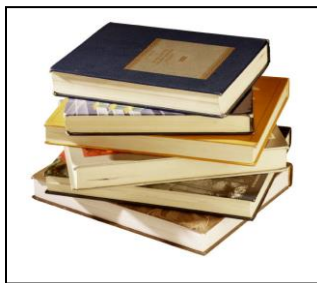
Success depends on:

Attendance
Homework
Revision
Reflective Subject Choice

Daily recommended time for Homework

Fifth Year – 2-3 hours Weekend 6-8 hours.

Sixth Year – 3-4 hours Weekend 10-12 hours.



Homework/Study

(THE ROAD TO FUTURE SUCCESS)

We provide a highly effective and professional system of after school study (subject to demand and resources) that aims to ensure students receive the maximum support and encouragement to complete both their homework and study.

We endeavor that each student has clear goals and targets in relation to their school work, in-house exams, state exams and future educational plans. There is an emphasis on making students aware of how to focus on short term and long term study plans through consistent revision.

Daily Supervised Study

Monday/Tuesday	4.15 p.m. - 6.15 p.m.
Wednesday/Thursday/Friday	3.45 p.m. - 6.15 p.m.



Leaving Certificate and Junior Certificate students are given Supervised Study during school time in the days immediately preceding the summer break.

The result of our study system sees very focused and satisfied students who feel in control of their own homework/study.



5TH YEAR SUBJECT CHOICES

While every effort will be made to accommodate students' choice of subjects, we cannot guarantee any particular combination of subjects. The final choices offered are a reflection of student preferences- they are not predetermined.

The subject details given in the following pages are not intended to be exhaustive.

Students with specific enquiries should always check with their Guidance Counsellor.

If you wish to succeed at Senior Cycle there are some considerations that you need to keep in mind:

CONSIDERATIONS IN CHOOSING SUBJECTS

Choosing your 5th year subjects requires **research, discussion, reflection** and **decision**.

When choosing subjects, consider the following:

ABILITY/INTERESTS

Ability and interest are very important considerations as you will work harder and achieve more in subjects, which you enjoy.

CAREERS

Some courses/careers have very specific subject entry requirements while others have very general entry requirements.

RELEVANCE

Remember: not every subject has to have a specific relevance or use other than your enjoyment of the subject.

KEEPING OPTIONS OPEN

Keep your range of subjects as broad as possible (bearing in mind your interest and ability in subjects.) Remember that current career preference may not reflect future career preference.

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- **Pick subjects you have enjoyed to date, subjects that you have good results in to date.**
 - **Never pick a subject because your friends are doing that subject, be true to your interests in choosing your subject options, and do not hesitate to ask for advice.**
 - **Subject Choice should not depend on what teacher is teaching a certain subject at Leaving Certificate Level.**



LEAVING CERTIFICATE SUBJECTS

Core Subjects

Irish, English, Maths

Science Group

Chemistry, Physics, Biology, Ag. Science

Business Studies Group

Accounting, Business

Applied Science Group

Home Economics, Design & Communication Graphics

Humanities Group

History, Geography, Art, Music, Religious Education.

Available at St. Michael's College

Engineering, Construction Studies

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- Each student is responsible for researching the subject requirements for courses in Third Level Colleges.
 - This information is available from College Prospectus + websites.
 - Some useful websites to help you are:
 - www.qualifax.ie
 - www.careerdirections.ie
 - www.careersportal.ie
 - www.cao.ie



IRISH

<p>Irish is compulsory for all students unless they have had an exemption from Irish at Junior Level.</p> <p>To study Irish at higher level it is recommended that students should have studied, sat and passed Higher Junior Certificate Irish.</p>				
Aim	<ul style="list-style-type: none"> • Instill a love of Irish • Understand the spoken language • Understand the written language • Communicate in the spoken language • Communicate in the written language • Have an awareness of Irish culture and civilization 			
Course Content	<p>E.g.</p> <ul style="list-style-type: none"> • 1/3 Autobiography – A Thig ná Tit Orm • 5 Poems common to Ordinary & Higher • 5 prose stories which may include a short film or drama • Essay work, Comprehension and Aural Work • The oral is 40% + aural is 10% at Higher and Ordinary Level. 			
useful for	<ul style="list-style-type: none"> • Translator • Journalist • Teaching* 	<ul style="list-style-type: none"> • Secretary • Law • Acting 	<ul style="list-style-type: none"> • Any job in Gaeltact • Army 	<ul style="list-style-type: none"> • Politics • Broadcasting • Journalism
Essential for	<p><u>* Primary Teaching</u></p> <p><i>Mary Immaculate College</i> <i>Colaiste Mhuire Marino</i> <i>St. Patricks College, DCU.</i> <i>Froebel College NUIM</i> <i>Education & Psychology – Primary Teaching Mary Immaculate</i> For further list of courses requiring Higher Level Irish see Appendix 1*</p>			<p>2018: H5</p> <p>2019/2020: H4</p>

***Always check college and course requirements carefully.**

ENGLISH

<p>To study English at Higher Level a student must have obtained a D or higher in Junior Certificate Higher English.</p>				
Course Content	<ul style="list-style-type: none"> • Composition • Comprehension • Shakespearean Text • Comparative Text including film • Prescribed Poetry • Unseen Poetry 			
useful for	<ul style="list-style-type: none"> • Actor • Journalist • Translator • Teacher • Broadcaster • Speech therapist • Copywriter 	<ul style="list-style-type: none"> • Solicitor • Barrister • Secretary • Librarian • Psychologist • Marketing • Public Relations 	<ul style="list-style-type: none"> • Author • Editor • Interpreter • Film & TV production • Counsellor • Copywriter • Historian 	<ul style="list-style-type: none"> • Playwright • Translator • Literature critic • Psychiatrist • Social worker • Lecturer
Essential for	<p>Some courses require a certain grade in English e.g. Journalism / English courses</p>			




*** Always check college and course requirements carefully.**

MATHS

To study Mathematics at Higher Level a student must have completed Junior Certificate Higher Mathematics and have achieved an A, B or C at Higher Level.

We strongly recommend all students to follow the recommendation of their teachers. If during the course of senior cycle a student, after consultation with a teacher or on the recommendation of a teacher, wishes to change from higher to ordinary level she must complete a “change of Level” form which will be signed by the student, parents/guardian, teachers and Principal. A copy of this form will be posted home. Likewise students not having the ability to pass the ordinary level are recommended to do the Foundation level.

Course Content	<u>HIGHER / ORDINARY / FOUNDATION</u>			
	<p><u>STRAND 1</u></p> <ul style="list-style-type: none"> Statistics & Probability <p><u>STRAND 2</u></p> <ul style="list-style-type: none"> Geometry <ul style="list-style-type: none"> Co-Ordinate  Line Grid Theorems ——— Proof / Constructions Trigonometry <p><u>STRAND 3</u></p> <ul style="list-style-type: none"> Number <p><u>STRAND 4</u></p> <ul style="list-style-type: none"> Algebra <p><u>STRAND 4</u></p> <ul style="list-style-type: none"> Functions <p>At Higher Level topics are studied in greater detail</p>			
useful for	<ul style="list-style-type: none"> Accountancy Actuary Architect Engineer Banking Medicine Computing Pharmacy 	<ul style="list-style-type: none"> Psychology Taxation Teaching Auditor Chemist Economist Stockbroker Statistician 	<ul style="list-style-type: none"> Physicist Auditor Insurance agent Microbiologist Computer programmer Scientist 	<ul style="list-style-type: none"> Quantity surveyor Surveyor University lecturer Investment banking Biochemist
Essential	Several Engineering / Maths / Science Degrees require Honours			

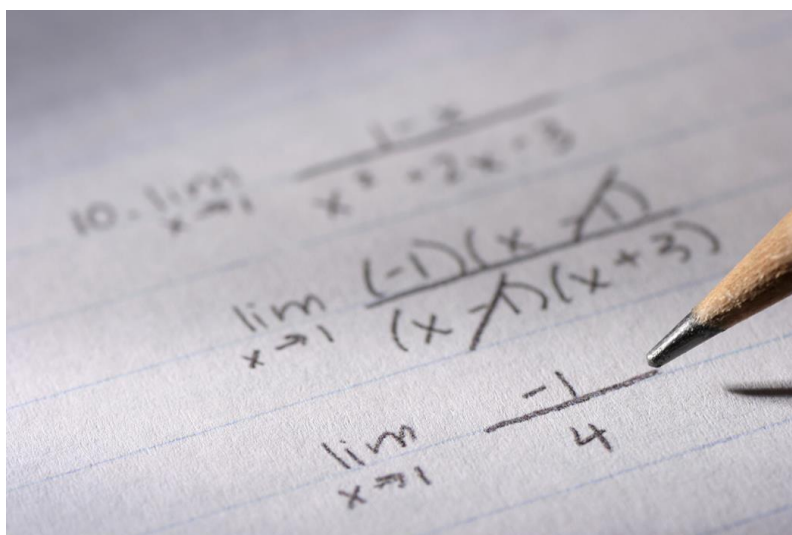
for	Maths (for full list see Appendix 2). It must also be noted that there are over 1,100 courses that you can do without Honours Maths. To view this list visit: www.qualifax.ie .
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NOTE: Students should check that doing Foundation Level Maths will not have an adverse effect on their choice of 3rd level programme or career.

Foundation Maths: is accepted for many careers. The Gardai will accept a grade B for entry. Some colleges will allow it where Maths are not involved in the course but all students are advised to meet with the Guidance Counsellor before making any decision*

NOTE: Leaving Certificate students who pass higher-level Maths will be rewarded with 25 CAO bonus points for university entry from 2012.

*** Always check college and course requirements carefully.**



FRENCH / GERMAN

<p>To study French at Higher Level it is desirable that a student would have achieved at least Grade C in the Junior Certificate Higher Paper. Higher and Ordinary German are studied in the same class.</p> <p>THIRD LANGUAGE REQUIREMENT:</p> <ul style="list-style-type: none"> • A Third language is required for entry to the National University of Ireland (NUI) colleges. For a list of these courses see P.49. • 	
<i>Aim</i>	That students of French/German understand and communicate in the spoken and written language and that they have an awareness of French/German culture and civilization.
<i>Course Content</i>	<ul style="list-style-type: none"> • Aural Comprehension: - Candidates are required to listen to a tape recording in French/German and answer questions in English on what they have heard. H=20% O=25% • Reading Comprehension: - Involves understanding a written text and answering questions. Material at higher level will place greater demands on students. H=30% O=40% • Written Exercises: - Include letter-writing, expressing personal opinions and personal reactions, diary entries, e-mails, cloze tests and form-filling. H= 25% O=15% • Oral Examination: - General conversation based on the syllabus content. This covers such themes as personal life, school, social life, public life and topical issues. H=25% O =20%
<i>Essential for</i>	<p>There are a total of 160 courses that definitely require a third language. To see the complete list of these courses visit: www.qualifax.ie</p> <ul style="list-style-type: none"> • Many colleges have a language requirement for specific courses such as European Studies, Law with a Language, Commerce with a Language etc.

*** Always check college and course requirements carefully.**

Courses that do not require the Third language:

- Engineering & Agricultural courses at UCD; Engineering and Science courses at NUI Maynooth; Engineering and Science courses in NUI Glaway (except GY304); Science, Engineering and Food Science in UCC.
- University of Limerick (UL): English and another language; Dublin City University (DCU): English or Irish; Trinity College Dublin(TCD): accepts a “language other than English” e.g. Irish.
- Students entering the National College of Art and Design may present the subject Art instead of the Third Language.
- Institutes of Technology accept English or Irish for entry purposes.
- NB: Students may be exempt from the Third Language on the grounds of a Specific Learning Difficulty such as Dyslexia. However in order to be granted this exemption for college a student must present (i) a School Record Form completed by the principal and (ii) a Certification Form completed by a qualified professional accompanied by a psychological assessment no more than 3 years old. Forms are available from the National University of Ireland, 49 Merrion Square, Dublin 2, or may be downloaded from www.nui.ie.

The learning difficulty should be brought to the attention of the Guidance Counsellor and Learning Support Teacher immediately.

**LANGUAGES WOULD BE USEFUL FOR THE
FOLLOWING CAREERS:**

Actor
Anthropologist
Archaeologist
Archivist
Army officer
Bank officer
Barrister
Customs officer
Politician
Speech & language therapist
Employment officer
Exporter / importer
Film critic
Foreign affairs / trade officer
Historian
Hotel manager
Human resource officer
Interpreter
Journalist
Language teacher
Solicitor

**Languages:
French /
German**

Public relations officer
Ship's captain / officer
Singer
Social worker
Solicitor
Editor
Subtitler
Teacher
Theatre critic
Translator
University lecturer
Writer
Immigration officer
Childcare worker
Librarian
Linguist
Musician
Nurse
Guard
Primary teacher
Library assistant

BIOLOGY

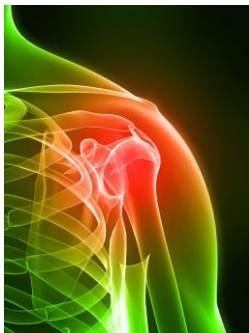
If you are thinking about doing Biology for Leaving Certificate, it is highly recommended that you would have studied the Junior Certificate Science Course. The Higher Level is taught in all classes. Generally there is no separate Ordinary Level class.

Students who fall behind in the class eventually opt for the Ordinary Level Paper themselves (or may be recommended by a teacher to do so).

A liking for the subject is essential.

Students need to have an interest in the investigative approach as Practical Work is an integral part of the Biology Syllabus. It is assessed in a special section of the written examination.

Course Content	<ul style="list-style-type: none"> • Characteristics of life • Nutrition • Ecology • Cell • Genetics • Diversity of organisms • Body systems <p>Students also undertake a range of practical work, laboratory work and fieldwork.</p> <p>Assessment: 100% terminal exam in June</p>		
Essential for	Human Health and Disease	TCD	H4
	Genetics	UCC	H4



*** Always check college and course requirements carefully.**

**BIOLOGY WOULD BE USEFUL FOR THE
FOLLOWING CAREERS:**

Acupuncturist
Agricultural engineer
Agricultural scientist
Agricultural technical officer
Agronomist
Ambulance officer
Anaesthetist
Anatomist
Aquaculture technician
Audiologist
Biochemist
Biological chemist
Botanist
Cardiac technologist
Chiropractor
Community nurse
Dental hygienist
Dentist
Dietitian
Ecologist
Entomologist
Environmental health officer
Environmental scientist
Ergonomist
Farmer / farm manager
Fisheries officer

Fitness instructor
Food technologist
Forensic scientist
Forester
Geneticist
Health information manager
Hospital manager
Horticulturalist
Landscape architect
Life scientist
Marine scientist

Biology

Medical imaging technologist
Doctor
Medical records administrator
Medical scientist
Rehabilitation counsellor
Natural therapist
Biology & Science teacher
Speech & language therapist
Midwife

Nutritionist
Obstetrician
Occupational health and
safety officer
Occupational therapist
Oceanographer
Optometrist
Pathologist
Pharmacist
Physiotherapist
Plastic surgeon
Sports scientist
University lecturer
Vet
Zoologist
Nurse's aid
Veterinary nurse
Childcare assistant
Psychiatrist
Psychologist
Radiation therapist
Microbiologist
Nurse
Sports coach
Sports psychologist
Beauty therapist

CHEMISTRY

If you are thinking about doing Chemistry for Leaving Certificate, it is highly recommended that you would have studied the Junior Certificate Science Course. The Higher Level is taught in all classes. Generally there is no separate Ordinary level class.

Students who fall behind in the class eventually opt for the Ordinary Level Paper themselves (or may be recommended by a teacher to do so).

A liking for the subject is essential.

Course Content	<ul style="list-style-type: none"> • Periodic table and atomic structure • Bonding • Formulae and equations • Volumetric analysis • Fuels • Rates of reaction • Organic Chemistry • Environmental Chemistry • Industrial Chemistry • Materials • Acids and Bases • Chemical Equilibrium <p>Assessment: 100% terminal exam in June</p>
Essential for	<p>Medicine (5 Year) RCSI Pharmacy (TCD) Pharmacy (UCC) Dentistry (UCC) Human Nutrition & Dietetics (DIT) Veterinary Medicine (UCD) Medicine (UCC) Public Health Nutrition (DIT)</p>



*** Always check college and course requirements carefully.**

**CHEMISTRY WOULD BE USEFUL FOR THE
FOLLOWING CAREERS:**

Chemical plant operator
Dispensing assistant
Textile technician
Plastics fabricator
Photographer
Nurse
Agricultural engineer
Agricultural scientist
Agronomist
Ambulance officer
Anaesthetist
Biochemist
Biotechnologist
Medical lab technician
Ceramics engineer
Food processing technician
Civil engineer
Dietitian
Ecologist
Environmental engineer
Environmental health officer
Environmental scientist
Farmer / Farm manager
Food technologist
Forensic scientist
Forester
Geneticist

Geologist
Geophysicist
Horticulturalist
Horticultural scientist
Industrial engineer
Industrial radiographer
Life scientist
Marine scientist
Zoologist
Minerals process engineer

Chemistry

Teacher (secondary / third level)
Sports scientist
Sports medicine practitioner
Aquaculture technician
Podiatrist
Plastic surgeon
Physiologist
Physicist
Photographer
Pharmacologist

Pathologist
Doctor
Optometrist
Oceanographer
Obstetrician
Nutritionist
Midwife
Nuclear medicine
Museum curator
Vet
Microbiologist
Medical scientist
Veterinary Nurse
Botanist
Gemmologist
Chemist
Beauty therapist
Radiologist
Draftsperson
Chemical engineer
Food science
Industrial chemist
Pharmacist
Paramedic
Research chemist
Process engineer
Forensic chemist

PHYSICS

If you are thinking about doing Physics for Leaving Certificate, it is highly recommended that you would have studied the Junior Certificate Higher Level Science Course and Junior Certificate Higher Level Maths Course.

The Higher Level is taught in all classes. Generally there is no separate Ordinary Level class.

Students who fall behind in the class eventually opt for the Ordinary Level Paper themselves (or may be recommended by a teacher to do so).

A liking for the subject, for problem solving and for practical investigations is essential – practical work is an integral part of the course and is assessed in a separate section of the examination paper.

Students who miss time from class get lost very easily and sometimes never succeed in catching up. Regular attendance and nightly study is absolutely essential for success.

Course Content	<ul style="list-style-type: none"> • Light • Mechanics • Pressure, Work, Energy, Power • Circular motion • Heat • Waves • Static & Current Electricity • Domestic Circuits & specific safety measures • Structure and working of silicon chip • Magnetic Fields & magnetic effects • Generation & Transmission of electricity • X Rays, Radiation • Radioactivity • Nuclear energy and power plants <p>Assessment: 100% terminal exam in June</p>		
Essential for	Theoretical Physics	TCD	H3

*** Always check college and course requirements carefully.**

**PHYSICS WOULD BE USEFUL FOR THE
FOLLOWING CAREERS:**

Aerospace engineer
Agriculture & resource economist
Agricultural engineer
Camera operator (film/TV)
Agronomist
Architect
Astronomer
Audiologist
Biomedical engineer
Biophysicist
Biotechnologist
Building contractor
Cardiac technologist
Cartographer
Ceramics engineer
Civil engineer
Computer engineer
Computer programmer
Computer systems engineer
Defence force officer
Telecommunications engineer
Electrical engineer
Electronics engineer
Environmental health officer
Environmental scientist
Ergonomist

Forensic scientist
Forester
Geographer
Geologist
Geophysicist
Hydrologist
Hydrographer
Industrial designer
Industrial radiographer
Life scientist

Physics

Marine scientist
Marine engineer
Marine surveyor
Materials engineer
Mechatronic engineer
Doctor
Medical scientist
Film & TV lighting operator
Meteorologist

Microbiologist
Mineralogist
Mining engineer
Naval architect
Occupational health & safety officer
Oceanographer
Optometrist
Patent examiner
Petroleum engineer
Pharmacist
Physicist
Physiotherapist
Pilot
Prosthetist
Quantity surveyor
Radiation therapist
Radiographer
Refrigeration engineer
Science teacher
Surveyor
Dentist
Town planner
University lecturer
Vet
Lab assistant

PLEASE NOTE:

COURSES REQUIRING TWO SCIENCE SUBJECTS AS A
MINIMUM ENTRY REQUIREMENT

Essential for:

Level / Grade:

Medicine (TCD)	See college prospectus for details	
Medicine (5 Year) NUIG	“	“
Medicine (5 Year) RCSI	“	“
Dental Science (TCD)	“	“
Physiotherapy (TCD)	“	“
Pharmacy (TCD)	“	“
Science (TCD)	“	“
Human Genetics (TCD)	“	“
Dentistry (UCC)	“	“
Medicine (UCC)	“	“
Pharmacy (UCC)	“	“

Note that while only a small number of courses require two Science subjects, it is advisable to choose two Science subjects if one is seriously interested in a Science based course.

**THE SCIENCE REQUIREMENTS ARE VERY DETAILED SO
PLEASE CHECK COLLEGE AND COURSE REQUIREMENTS
BEFORE MAKING DECISIONS.**

ACCOUNTING

To study Accounting it is advisable to have completed Junior Certificate Business and taken the Higher-level paper.

Higher and Ordinary are studied in the same class.

- Need to enjoy Bookkeeping.
- Get satisfaction when the account balances.
- Be reasonably good at Maths.
- Be organised.
- Be accurate.
- Be prepared to be challenged.

<p><i>Course Content</i></p>	<p>The Syllabus covers the following topics in two specific areas</p> <p><u>Financial Accounting</u></p> <ul style="list-style-type: none"> • Control Accounts • Depreciation of Fixed Assets • Bank Reconciliation Statements • Final accounts of <ol style="list-style-type: none"> 1. Sole Trader 2. Company, both internal and published • Correction of Errors • Clubs & Service Firms • Farm accounts • Incomplete Records • Cash Flow Statements • Analysis & interpretation of Accounts • Effects of Transaction on the Balance Sheet <p><u>Management Accounting</u></p> <ul style="list-style-type: none"> • Product Costing • Absorption Costing • Cost-volume-profit analysis • Budgeting <p>Assessment: 100% terminal exam in June</p>
<p><i>Essential for</i></p>	<p>Commerce - Accounting NUIG</p>

*** Always check college and course requirements carefully.**

**ACCOUNTING WOULD BE USEFUL FOR THE
FOLLOWING CAREERS:**

Accountant
Auditor
Compliance administrator
Cost analyst
Transportation fund manager
Financial advisor
Financial analyst
Trustee administrator
Tax consultant
Materials logistic planner
Information security specialist
Business Analyst
Economic analyst in financial sector
Tourism industry
Chartered accountant
University lecturer
Stockbroker firms
Government departments
Government agencies
Airline industry

Advertising executive
Public relations manager
Buyer / planner
Retail manager
Logistics manager
Marketing analyst
Researcher
Human resource specialist
Management consultant
Human resource manager

Accounting

Management development
Training co-ordinator
Claims advisor

Risk consultant
Bond specialist
Investment banker
Research assistant
Funds manager
Financial analyst
Corporate banker
Investment manager
Taxation auditor
Taxation advisor
Teacher
Tax accountant
Equity trader
Civil service manager
Manager
Compliance officer
Insurance broker
Banker
Actuary

BUSINESS

To study Business a liking for the subject is essential. Higher and Ordinary are studied in the same class.		
Course Content	<p>People Consumers,Producers, Investors, Interest Groups,Employers,Employees, Industrial Relations.</p> <p>Enterprise Entrepreneur, Management of Business Financial Management, Human Resource Management, Marketing, <i>Household</i> Management, Starting a Business, Running your own Business.</p> <p>Environment Types of Business, Community Development Government and Business, International Business EU., Role of Information Technology In Business.</p> <p>Assessment: 100% terminal exam in June</p>	
Essential for	-----	



*** Always check college and course requirements carefully.**

**BUSINESS WOULD BE USEFUL FOR THE
FOLLOWING CAREERS:**

Accounts clerk
Bank officer (including building
Society / credit union)
Call centre operator
Catering manager
Administrative assistant
Copywriter
Credit officer
Insurance broker
Employment officer
Export / import clerk
Exporter / importer
Farmer / Farm manager
Finance clerk
Hotel manager
Marketing / Sales rep
Valuer
Transport administrator
Trade union official
Tourism manager
Pensions administrator
Stockbroker's clerk
Stockbroker
Quality assurance inspector
Public relations officer
Property / resource manager
Estate Agent
Production manager

Personal assistant
Occupational health &
safety officer
Multimedia developer
Marketing officer
Human resource manager
Industrial relations officer
IT manager
Investment analyst
Journalist
Management consultant

Business

Market researcher
Economic analyst
Quantity surveyor
Sports administrator
Tourism manager
Trade analyst
Hospital administrator
Foreign affairs officer
Financial planner / manager
Financial journalist

Economist
Publisher
Computer systems auditor
Company secretary
Business systems analyst
Building contractor
Actuary
Accountant
Tax Accountant
Insurance agent
Receptionist
Auditor
Compliance administrator
Cost analyst
Banker
Financial Advisor / Analyst
Tax consultant
Information security
Business analyst
Brand manager
Teacher (secondary / third level)
Advertising executive
Researcher
Training co-ordinator
Marketing analyst
Recruitment consultant
Manager
Airline industry

DESIGN & COMMUNICATION GRAPHIC

<p>Should a student who has not studied Technical Graphics for Junior Certificate wish to study it for Leaving Certificate it would be essential for the student to study it during Transition Year. A student would be required to put in quite an amount of extra time to cover basics in the subject. Having observed the progress and willingness of the student to put in extra effort the teacher will be in the position to advise the student re studying the subject for Leaving Certificate.</p> <p>5th Year classes are of mixed ability and, based on progress, test results and the result of the Mock Leaving Certificate the student will be advised, if necessary, to take the Ordinary Level paper in the Leaving Certificate.</p>	
<p>Course Content</p>	<div><div><p>Assessment: 60% Examination</p><p>40%Project on Solidworks</p></div><div><div><div><p>(A) Plane & Descriptive Geometry</p><ul style="list-style-type: none">• Projection Systems• Plane Geometry• Conic Sections• Descriptive Geometry of Lines and Planes• Intersection and Development of Surfaces</div><div><p>CORE AREAS OF STUDY</p></div><div><p>(B) Communication of Design & Computer Graphics</p><ul style="list-style-type: none">• Graphics in Design and Communication• Communication of Design• Freehand Drawing• Information and Communication Technologies</div></div></div><div><p>+</p><div><p>OPTIONAL AREAS OF STUDY</p><p>Applied Graphics</p><p>Two options to be studied</p><ul style="list-style-type: none">• Dynamic Mechanisms• Structural Forms• Geologic Geometry• Surface Geometry• Assemblies</div></div></div>
<p>Essential for</p>	<p>It is not an essential requirement for entry into architecture or engineering, however it is an essential component of most technical courses.</p>

*** Always check college and course requirements carefully.**

**DESIGN & COMMUNICATION GRAPHICS WOULD
BE USEFUL FOR THE FOLLOWING CAREERS:**

**Design &
Communication
Graphics**

Architect
Interior designer
Computer networks manager
University lecturer
Naval architect
Cartographer
Draftsperson
Mechanical engineer
Civil engineer
Structural engineer
Quantity surveyor
Mechatronic engineer
Civil engineering technician
Architectural technician
Army officer
Website designer
Computer engineer
IT support technician
Building constructor
Electrical engineer
Electronic engineer
Manufacturing technologist
Surveyor's assistant
Town planning drafter
Marine engineer
Aeronautical engineer

Biomedical engineer
Sports engineer
Forensic engineering
Design consultancy
Teacher
Scientist
Researcher
Property developer
Construction engineer
Construction management
Facilities management
Project management
Manufacturing engineer
Design engineer
Industrial designer
Occupational health &
safety officer
Industrial radiographer
Toolmaker
Product developer
Quality controller
Production engineer
Energy management
Energy engineer
Natural resource manager
Surveyor

HOME ECONOMICS (SOCIAL & SCIENTIFIC)

It is preferable to have studied Home Economics for Junior Certificate.
5th Year Classes are mixed ability. All students are encouraged to achieve their potential. Based on observation and test results students are encouraged during the latter stages in 6th Year to take the Ordinary Level paper if necessary in the Leaving Certificate Exam.

The Home Economics Syllabus covers the following topics

Course Content	Core Section
	<p><u>Food Studies:</u></p> <ul style="list-style-type: none"> • Food Science and Nutrition, • Diet and Health • Food Commodities e.g. Meat, Milk, Cheese, Fruit. • Meal Planning & Preparation • Irish Diet & Food Industry • Food Processing • Microbiology, Food Spoilage & Food Preservation • Food Safety & Hygiene <p><u>Resource Management and Consumer Studies:</u></p> <ul style="list-style-type: none"> • Family Resource Management • Management of Household Finances • Housing Finance • Textiles • Consumer Studies • Household Technology <p><u>Social Studies:</u></p> <ul style="list-style-type: none"> • Study of Family and Family Law • Marriage, • Family as a caring unit <p style="text-align: center;">Electives</p> <p>There are 3 electives, from which 1 is chosen.</p> <ol style="list-style-type: none"> 1. Home Design and Management. 2. Social Studies. 3. Textiles Fashion and Design. <p>Assessment:</p> <p>Food Studies Practical- Coursework Journal 20% Written – 80%</p>
Essential for	-----

*** Always check college and course requirements carefully.**

**HOME ECONOMICS WOULD BE USEFUL FOR THE
FOLLOWING CAREERS:**

Cake decorator
Production controller
Childcare assistant
Community educator
Consumer advisor
Cook / Chef
Cookery demonstrator
Costume designer
Craft instructor
Craftsperson
Creche attendant
Events co-ordinator
Fashion co-ordinator
Textile designer
Food process worker
Instore demonstrator
Travel & tourism officer
Youth worker
Childcare worker
Pastry chef
Quality control officer
Interior designer
Guest relations officer
Human resource manager

University lecturer
Product designer
Teacher's assistant
Health promotion officer
Occupational therapist
Production controller
Public relations officer
Social worker
Speech therapist
Early childhood teacher

Primary teacher
Home Economics teacher
Adult education
Community development officer
Hospitality consultant
Hospital catering consultant
Food technologist

Secondary teacher
Dietitian
Nurse
Health educator
Food technologist
Food journalist
Nutritionist
Hotel manager
Architect
Market researcher
Photographer
Caterer
Carer
Retail manager
Retail buyer
Nanny
Personal shopper
Hotel receptionist
Beautician
Food scientist
Kitchen assistant
Waitress
Deli assistant
Social carer

**Home
Economics**

HISTORY

<p>The following, while not essential, are considered beneficial to students studying History:</p> <ul style="list-style-type: none"> • A natural curiosity about the world in which we live and how the past influenced the way we live today • An enjoyment of reading • A reasonable standard of English • An interest in Politics / how our society works <p>Higher and Ordinary Level are studied in the same class.</p>	
Course Content	<p><i>Students are requested to pre-submit a research project, which is worth 20% of the overall Leaving Cert. marks.</i></p> <p><i>Students cover four options, one of which is prescribed for study through the use of historical documents.</i></p> <p><i>The following are some of the options:</i></p> <ul style="list-style-type: none"> • <i>The pursuit of sovereignty in Ireland 1912 – 1949</i> • <i>The United States and the world 1945 – 1989</i> • <i>Politics & Society in Northern Ireland 1949 – 1993</i> • <i>European retreat from empire 1945 - 1990</i> <p><i>Each option is studied through a number of perspectives:</i></p> <ul style="list-style-type: none"> ▪ <i>Political & Administrative</i> ▪ <i>Social & Economic</i> ▪ <i>Cultural & Religion</i> <p>Assessment: Terminal written exam: 80% Report on a research study: 20%</p>
Useful for	Law, Business courses, Archaeology, Teaching, Journalism, Human Resources, Tourism and Heritage, Media Studies, Politics, Social Studies and research programmes.
Essential for	-----

*** Always check college and course requirements carefully.**

**HISTORY WOULD BE USEFUL FOR THE
FOLLOWING CAREERS:**

Anthropologist
Archaeologist
Archivist
Army officer
Art critic
Art historian
Tourist information officer
Barrister
Conservator
Cultural heritage officer
Politician
Administrative assistant
Film & TV producer
Film, stage & TV director
Foreign affairs & trade officer
Historian
Industrial relations officer
Journalist
Solicitor
Legal secretary
Legal executive
Librarian

History

Publisher
Records manager
Researcher
Script writer
Teacher
University lecturer
Writer
Travel consultant
Tour guide
Author
Library assistant
Editor
Museum curator
Photographer
Playwright
Political scientist
Actor
Artist
Criminologist
Detective
Psychologist
Law clerk

GEOGRAPHY

Very varied programme. To study Geography for Leaving Certificate a liking for the subject is essential. Higher and Ordinary Level is studied in the same class.

<p><i>Course Content</i></p>	<p><u>Physical Geography(Compulsory)</u></p> <ul style="list-style-type: none"> ❖ Rocks ❖ Weathering & Erosion ❖ Mass Movement ❖ Plate Tectonics <p><u>Regional Geography (Compulsory)</u></p> <ul style="list-style-type: none"> ❖ Ireland – Core/Periphery ❖ Paris European Core Region ❖ Mezzogiorno (Peripheral Region) ❖ South West America <p><u>Economic Geography (Elective)</u></p> <ul style="list-style-type: none"> ❖ Levels of economic development ❖ Ireland and the EU ❖ The environment <p><u>Geo ecology (Option – Higher Level Only)</u></p> <ul style="list-style-type: none"> ❖ Soils ❖ Desert Biome <p><u>Short Questions</u> Physical/Regional/Photographs/Maps /Graphs 10 questions out of 12 to be answered.</p> <p>Assessment: Terminal written examination: 80% Geographical investigation: 20%</p>
<p><i>Essential for</i></p>	<p>-----</p>

***Always check college and course requirements carefully.**

**GEOGRAPHY WOULD BE USEFUL FOR THE
FOLLOWING CAREERS:**

Agricultural & resource economist
Agricultural scientist
Tour guide
Anthropologist
Archaeologist
Botanist
Cartographer
Civil engineer
Demographer
Ecologist
Environmental scientist
Exporter / importer
Farmer / farm manager
Foreign affairs / trade officer
Forester
Geographer
Geological engineer
Geologist
Geophysicist
Historian
Hydrographer
Hydrologist
Hydrogeologist
Journalist
Landscape architect
Marine scientist

Geography

Market researcher
Meteorologist
Mine surveyor
Mining engineer
Natural resource manager
Park ranger
Photographer
Pilot
Estate agent
Geography teacher
University lecturer
Photographer
Tourism officer
Travel agent
Tourist information officer
Marine biologist
Miner
Ship's captain / officer
Sociologist
Statistician
Surveyor
Town planner
Trade analyst
Zoologist
Town planning
Draftsperson

ART

<p>To study Art a student must have completed the Junior Certificate Art Programme. For those who have not done so the following procedures must be followed:</p> <ul style="list-style-type: none">➤ The Art teacher will examine sketches from 1st Year.➤ The Student will be given an assignment to complete.➤ A liking for History is essential as 30% of the Leaving Certificate Course is written.			
<p><i>Course Content</i></p>	<p>Art involves:</p> <ul style="list-style-type: none">▪ Imaginative Composition▪ Still Life▪ Craft Work▪ Life Sketching▪ History and Appreciation of Art.		
<p><i>Essential for</i></p>	<ul style="list-style-type: none">• Many Its and Art colleges require Leaving Certificate Art as a minimum requirement. E.g. Design – Visual Communications WIT Art Visual Arts WIT Art• A portfolio is an essential requirement for most Art courses. The guidance of an Art teacher is essential in its preparation.• Recommended by some schools of Architecture. <p>Assessment: All the practical work (2/3rd) of the paper is completed in May; the remaining 1/3rd (History of Art) is completed in June</p>		

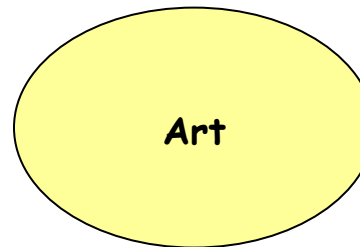


***Always check college and course requirements carefully.**

**ART WOULD BE USEFUL FOR THE FOLLOWING
CAREERS:**

Advertising executive
Animator
Archaeologist
Architect
Art critic
Artist
Art gallery director
Art historian
Art administrator
Arts & cultural planner
Cartographer
Cartoonist
Conservator
Costume designer
Craft instructor
Craftsperson
Cultural heritage officer
Director of photography
Display artist
Fashion designer
Graphic artist
Graphic designer
Illustrator
Industrial designer
Interior designer
Landscape architect

Multimedia developer
Museum curator
Naval architect
Occupational therapist
Photographer
Soft furnishing maker
Recreation officer
Sculptor
Set / image designer
Teacher - art / music



Textile's designer
Theatrical costume maker & designer
Town planner
University lecturer
Diamond cutter / polisher
Web designer / developer
Draftsperson
Fashion co-ordinator
Film & TV lighting operator

Model maker
Personal shopper
Beauty therapist
Nail technician
Jeweller
Make-up artist
Chef
Pastry chef
Painter / decorator
Milliner
Printer
Signwriter
Silversmith
Potter
Stonemason
Tailor
Tiler
Wood turner
Wood carver
Hairdresser
Glass craftsperson
Florist
Engraver
Dressmaker
Valuer
Toymaker

MUSIC

<p>Students wishing to study Music who have not completed the Junior Certificate Programme must be able to read Music and have a knowledge of keys. Or Must have learnt an instrument recently.</p>	
<p><i>Course Content</i></p>	<p>Music involves</p> <ul style="list-style-type: none"> • <u>Performing</u>, singing or playing individually or as a member of a musical group or rehearsing and conducting a musical group or music technology <p>AND</p> <p>singing or playing a sight-reading test or an aural memory test or an unprepared improvisation</p> <p>*Students have the option to do a 50% practical elective</p> <ul style="list-style-type: none"> • <u>Composing</u>: Melody and Harmony • <u>Listening</u>: Four set works, Irish music and unheard aural pieces.
<p><i>Essential for</i></p>	<p>Religious Education + Music 2nd Level Teaching (Mater Dei)</p> <ul style="list-style-type: none"> • Recommended for B.Mus./B.A. with Music in all colleges • Most colleges have a special assessment test for applicants to Music (written, audition and interview)



***Always check college and course requirements carefully.**

**MUSIC WOULD BE USEFUL FOR THE FOLLOWING
CAREERS:**

Musician
Composer
Lyricist
Performer
Conductor
Dancer
Teacher
Music therapist
University lecturer
Actor
Singer
Music technologist
Arts administrator
Choreographer
DJ
Journalist
Record producer
Community education
TV/Radio work
Music producer

Music

Childcare worker
Social worker
Music publisher
Occupational therapist
Writer
Music journalist
Sales assistant
Theatre production
Dramatist
Film critic
Photographer
Writer
Film & TV producer
Script writer
Multimedia developer
Primary teacher
Music distribution
Sound technician
Dance producer
Music critic

Agricultural Science

Subject Overview

Agricultural science is the study of the science and technology underlying the principles and practices of agriculture. It aims to develop knowledge, skills and attitudes concerning the factors that affect the long-term well-being of agricultural resources, and places emphasis on the managed use of these resources.

Content

The course consists of the study of a variety of aspects of agriculture under the following headings:

- Soils
- The general structure and function of plants
- Farm crops - cereal and roots
- Farm crops - grassland
- Trees and shelter
- Structure and function of the animal body
- The cow, the sheep, horse, and pig
- Farm buildings (for school assessment only)
- Farm-house environment (for school assessment only)

Assessment

The examination in Agricultural Science consist of (a) a terminal examination paper and (b) an assessment of the work of the candidate during the course under the headings: identification of plant and animal types associated with agriculture; practical experience with crops, livestock, house and farmyard layouts; investigations carried out related to ecology, soil science, animal physiology, plant physiology, genetics and microbiology. Agricultural Science at Leaving Certificate level is marked out of a total of 400 marks. A total of 300 marks (75%) is allocated to the terminal written examination and 100 marks (25%) to the coursework component.

Careers with Agricultural Science

- Farm or ranch manager
- Food scientist
- Food marketing expert
- Agricultural analyst
- Community planning consultant
- Conservationist
- Agricultural technology trainer
- Field representative
- Agribusiness sales manager
- Agriculture journalist
- Livestock Management
- Agricultural Research
- Soil Scientist

THE FOLLOWING APPLIED SCIENCE SUBJECTS ARE AVAILABLE
AT ST. MICHAEL'S COLLEGE:

Engineering

Subject Overview

Engineering promotes an educational understanding of the materials and a knowledge of the processes associated with mechanical engineering. This is achieved through the development of skills and initiative in the planning, development and realization of technological projects in a safe manner.

Content

Workshop Processes

- Health and safety
- Benchwork
- Heat treatment of metals
- Plastics processing
- Fabrication and finishing of metals
- Machining
- Technology

Materials and Technology

- Health and safety
- Classification and origin of metals
- Structure of metals
- Iron and steel
- Non-ferrous metals
- Heat treatment of metals
- Corrosion of metals
- Materials testing
- Plastics
- Joining of materials

Manufacturing Processes Technology

- Machining
- Metrology

Assessment

Engineering is assessed at both Ordinary level and Higher level by means of a terminal examination paper, a student project and a practical examination.

Construction Studies

Subject Overview

Construction Studies introduces students to the knowledge and skills associated with construction technology and construction materials and practices. This is achieved through theoretical study and integrated practical projects which provide a basis for the thorough exploration of materials and processes

Content

Part I - Construction Theory and Drawing

- General principles
- Substructure
- Superstructure
- Internal construction
- Services and external works
- Heat and thermal effects in buildings
- Illumination in buildings
- Sound in buildings

Part II - Practical Skills

- Tools
- Processes

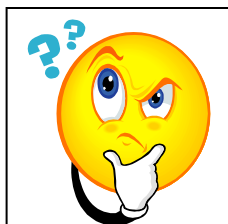
Part III - Course Work and Projects

- Workshop/laboratory experiments
- Student projects

Assessment

Construction Studies is assessed at both Ordinary level and Higher level by means of a terminal examination paper, a practical test and a student project.

SUBJECT CHOICE CHECKLIST 3rd Year Students



Subject	Good at	Enjoy it	Needed for my career
French			
German			
Chemistry			
Physics			
Biology			
Accounting			
Business			
Home Economics			
D&CG			
History			
Geography			
Art			
Music			
Religious Education			
These subjects will be available at St. Michael's College, Listowel.			
Engineering			
Construction Studies			

DECIDING BETWEEN TWO SUBJECTS?

*It often comes down to a decision between 2 subjects.
Use this sheet to help you decide which subject is best for you.*



<p>SUBJECT 1 : _____</p> <p>Advantages:</p> <ul style="list-style-type: none">••••••	<p>SUBJECT 2 : _____</p> <p>Advantages:</p> <ul style="list-style-type: none">••••••
<p>SUBJECT 1 : _____</p> <p>Disadvantages:</p> <ul style="list-style-type: none">••••••	<p>SUBJECT 2 : _____</p> <p>Disadvantages:</p> <ul style="list-style-type: none">••••••

Write out the advantages and disadvantages of each subject for you.
Sometimes when it is written on paper it can become clearer.

QUESTIONS TO ASK MYSELF:

<p>If you can answer yes to all of these questions then you have chosen your subjects wisely and you can be confident that you have made an informed decision.</p>	
<ul style="list-style-type: none"> • Have I chosen subjects that I am interested in and that I enjoy? 	<p>YES / NO</p>
<ul style="list-style-type: none"> • Have I checked to make sure that I am choosing the right subjects for the right career e.g. I must have science if I want to become a nurse. 	<p>YES / NO</p>
<ul style="list-style-type: none"> • If my career choice is to change have I left my options open...i.e. science / language? 	<p>YES / NO</p>
<ul style="list-style-type: none"> • Have I chosen a European Language? 	<p>YES / NO</p>
<ul style="list-style-type: none"> • Have I spoken to the guidance counsellor / subject teacher about any questions I had? 	<p>YES / NO</p>
<ul style="list-style-type: none"> • Have I checked www.qualifax.ie : subject choice section? 	<p>YES / NO</p>
<ul style="list-style-type: none"> • Have I made this decision for myself and not been influenced / persuaded by friends? (Remember what is right for someone else may not be right for you). 	<p>YES / NO</p>



Courses Requiring a Third language

See the following link:

http://www.qualifax.ie/index.php?option=com_wrapper&Itemid=26&Mainsec=courses&Subsec=min_courses_select&view=wrapper&xpt=0.61113000%201429190312&xpt=0.87098800%201429191164

Courses Requiring Higher Level Irish

See the following link:

http://www.qualifax.ie/index.php?option=com_wrapper&Itemid=26&Mainsec=courses&Subsec=min_courses_select&view=wrapper&xpt=0.61113000%201429190312&xpt=0.87098800%201429191164

Courses requiring Higher Level Maths

See the following link:

http://www.qualifax.ie/index.php?option=com_wrapper&Itemid=26&Mainsec=courses&Subsec=min_courses_select&view=wrapper&xpt=0.61113000%201429190312&xpt=0.87098800%201429191164

Changes Since 2017

For the first time, students will be awarded points for a mark of less than 40pc on a higher level paper, traditionally regarded as a “fail”.

Under the new regime, students who achieve between 30-39pc on an “honours” paper will be awarded 37 points.

The change is intended to encourage students to aim higher, while minimising the risk of getting no points.

The new CAO scale is part of a series of inter-related reforms focusing on the transition from school to college, and designed to take some of the heat out of the points race.

The points changes are directly linked to an overhaul of the old Leaving Certificate 14-stage grading system, stretching from A1 to NG (No Grade), at both higher and ordinary level.

Since 2017, there are eight bands, at each level, in the grading system - H1 to H8 and O1 to O8. Scores of between 30-39pc will be awarded a H7 and be worth 37 points.

Under the new system, a grade will cover a 10pc stretch of marks, such as 70-80pc for a H3.

Arising from that, the CAO scale has undergone a significant revamp. The top of the scale will continue to be 100 but it will no longer go down in standard steps of five or 10 points.

In what is known as a non-linear scale, different increments will be used between each grade and while a H1 (90-100pc) will attract 100 points, a H2 (80-90pc) will get 88 points and a H3 (70-80pc) will be worth 77 points.

A H4 will be worth 66 points. A H5 will be 56 points and a H6 46 points. There will be no points for a H8.

The H7 will be equivalent to O3, which will also attract 37 points. An O1 will be worth 56 points the same as a H5.

Because points were awarded in the pre-2017 system in multiples of five only, a relatively large number of students bunched on the same score, which resulted in CAO applicants with the same points subjected to random selection for a college place.

The current scale means that any points score between 0 and 625 is possible, which will allow for greater differentiation between individual students when it comes to competing for college places.

New Grades	% Marks
H1 / O1	90-100
H2 / O2	80<90
H3 / O3	70<80
H4 / O4	60<70
H5 / O5	50<60
H6 / O6	40<50
H7 / O7	30<40
H8 / O8	0<30

LCVP Points accepted For Third Level Colleges

From 2017 on Leaving Certificate Vocational Programme (LCVP) grades will be aligned as follows:

Grade	Universities and Institutes of Technology Award Revised points 2017 onwards
Distinction	66 points
Merit	46 points
Pass	28 points

WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT, NO RESPONSIBILITY CAN BE TAKEN FOR ANY ERRORS OR OMISSIONS.

STUDENTS WITH SPECIFIC ENQUIRIES SHOULD ALWAYS CHECK WITH THE RELEVANT COLLEGES, WEBSITES AND CAREFULLY CONSULT COLLEGE PROSPECTUS.



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