



# FRANCIS DOUGLAS MEMORIAL COLLEGE

*A Catholic College in the tradition of the De La Salle Brothers*

*Enter to learn, leave to serve.*



**YEAR 13**  
**NCEA LEVEL 3**  
**SUBJECT HANDBOOK**

**2026**



*Growing good  
college men  
since 1959.*



*Touching hearts, teaching minds, transforming lives.*

Please read this subject handbook carefully  
to inform you of your subject selections



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## INTRODUCTION

Welcome to the Francis Douglas Memorial College 2026 Option Booklet. The Option Booklet is designed to assist parents and students make the best choices. It provides information about the courses of study available in the senior school. It also provides an overview of the National Certificate of Educational Achievement (NCEA).

When they leave school, our students are entering a world where competition is fierce and the norm now is to have at least 4–5 careers over the course of one’s working life. Because of this, subject choices made at secondary school cannot be made lightly. The ideal is for students to leave school with a range of career options available to them. This only happens as a result of strategic goal setting, careful planning, focus and hard work.

Parents and caregivers, please take an active part in the students’ career planning: work through and discuss the career planning form, ask questions, use the internet, and talk to people who are knowledgeable, especially Ms Lauren O’Reilly (HOD Careers Department). It is important for our students to plan their subject choices effectively so as to maximise their opportunities when moving into tertiary study and the workplace.

Students are advised that, in terms of having viable career opportunities beyond secondary school, NCEA Level 2 is considered a minimum qualification.

Five essential guidelines should be kept in mind when planning a programme of study in the senior school:

1. Choose a range of subjects, which will provide options in both tertiary study and career choice.
2. Choose a programme which has relevance to areas of future study for the career pathway chosen.
3. Choose a realistic programme/career path.
4. Select subjects that are of interest to you and are your best subjects.
5. The programme of study for any year must be based on a long-term plan.

## COURSE SELECTION PROCESS AT FDMC

### KEY DATES

<b>Wednesday, 17 Sept</b> - end of Term 3	Yr 11 & 12 students to hand in their subject selection forms
Monday 1st – Wed 3rd September	Yr 10 students and parents/caregivers attend <b>compulsory subject selection counselling</b>
Monday 15th September – last week of Term 3	All Year 10 forms to be handed in
Term 4, Weeks 1–2 During Prelim Exams & Study Leave	Yr 11 & 12: optional subject counselling.

## PEOPLE WHO CAN HELP

Deciding your course deserves careful thought and consultation. Make use of the resource people around the school including the contact people in this document e.g., your Deans and Teachers, Pathways staff, Heads of Department.

- L2 & 3 Accounting – Mr Mark Sewter
- Business Enterprise / Young Enterprise – Ms Pascale Joines
- Biology – Mr Josh Morris
- Careers (Gateway/Star/ CPP) – Ms Lauren O’Reilly
- Chemistry – Mrs Anna Langford
- L1 Commerce – Mr Mark Sewter
- Digital Technologies – Mr Andy Evans / Mrs Melinda Stevenson
- L2 & 3 Economics – Mr Mark Sewter
- English – Ms Renée Woollaston
- Geography – Mr Mark Wales
- Food and Nutrition / Health – Mrs Lana Rowland or Mrs Sheree Asi
- History – Mr Martin Dravitzki
- Languages – via Te Kura Correspondence School – Mrs Dorothy Lacanaria
- Te Reo Māori – Matua Teihorangi Walden
- All Mathematics (Maths, Maths Applications, Statistics & Calculus) – Mr Matt Casey
- Music – Mr Leon Gray
- NZQA Liaison / DP Curriculum – Mrs Melinda Stevenson
- Physics – Mr Charl van der Heever
- Physical Education – Mr James Rowland
- Primary Industries – Mrs Aimee Watkins
- Product Design – Mr Andy Evans or Ms Briana Matthews
- Religious Studies – Mrs Anna Zsigovits-Mace
- Science – Mr Josh Morris
- Technology – Wood – Mr Andy Evans
- Technology – Engineering – Mr Stephen Ritchie
- Visual Arts – Mrs Jane Aitken Connolly
- Year Level Deans (Y11 – Ms Kath Curd, Y12 – Mr Jamie Reid, Y13 – Ms Lauren O’Reilly)

**Students must have a career plan and check that they have selected the right subjects for their career choice(s). Some subjects are required to be able to study for specific career pathways.**

Remember the following:

- All careers require Mathematics to some level and at an advanced level in a number of fields, such as the Sciences.
- English is also required at some level in all careers and at an advanced level in information based careers such as Law.
- Five Level 2 Reading and five Level 2 Writing Credits are needed to get University Entrance Literacy.

It is important that all students understand the subject level required for entry into careers of interest. When planning for a career, you can find career information from the following information sources:

- The Careers Department staff;
- Appropriate tertiary training provider booklets;
- Youth Guarantee website: [www.youthguarantee.net.nz](http://www.youthguarantee.net.nz) for Vocational Pathways information;
- Careers NZ website [www.careers.govt.nz](http://www.careers.govt.nz) for all career information;
- Career Quest to assist in career selection;
- Careers Information leaflets;
- Jobs Galore manual

All careers matters can be discussed with Careers Department staff at FDMC.

## NCEA LEVELS AND CERTIFICATES

This subject handbook should be read in conjunction with the NCEA handbook issued to all senior students each year. This contains all the information you need to know in preparation for achieving NCEA at each level.

There are three levels of NCEA certification, depending on the difficulty of the standards achieved. At each level, students must achieve a certain number of credits to gain an NCEA certificate. Credits can be gained over more than one year.

### NCEA INFO SHEET

NCEA LEVEL 1	NCEA LEVEL 2	NCEA LEVEL 3	UNIVERSITY ENTRANCE
Level 1 (or higher) minimum 60 Credits	Level 2 (or higher) minimum 60 Credits	Level 3 (or higher) minimum 60 Credits	Level 3 minimum 60 Credits
			Including: Uni approved subject 1 14 credits minimum Uni approved subject 2 14 credits minimum Uni approved subject 3 14 credits minimum
Plus: * Numeracy 10 Credits Literacy 10 Credits	Plus: * Numeracy 10 Credits Literacy 10 Credits	Plus: * Numeracy 10 Credits Literacy 10 Credits	Literacy in Reading 5 Credits, Level 2 or higher Literacy in Writing 5 Credits, Level 2 or higher

\* Numeracy and literacy only needs to be gained once.

Image credit: NZQA

Credits gained at one level can be used for (or count towards) more than one certificate. They may also be used towards other qualifications.

The following information offers guidelines for course selection for Year 13 courses of study in 2026. Senior students are advised to contact Mrs Melinda Stevenson, Deputy Principal (Curriculum) if they have queries regarding their programmes.

Most senior students will be studying for the NCEA Level 3 qualification. Those students who have not achieved NCEA Level 2 will take a combination of Level 2 and Level 3 subjects. The number of Level 3 subjects that may be taken will be dependent on the student's results from the previous year.

Entry to specific subjects is determined by the entry requirements set for each subject. These are listed under each subject in this booklet. The Head of Department may approve entry according to the student's circumstances. High achieving students will be encouraged to enter the New Zealand Scholarship written examinations.

### **POINTS TO CONSIDER:**

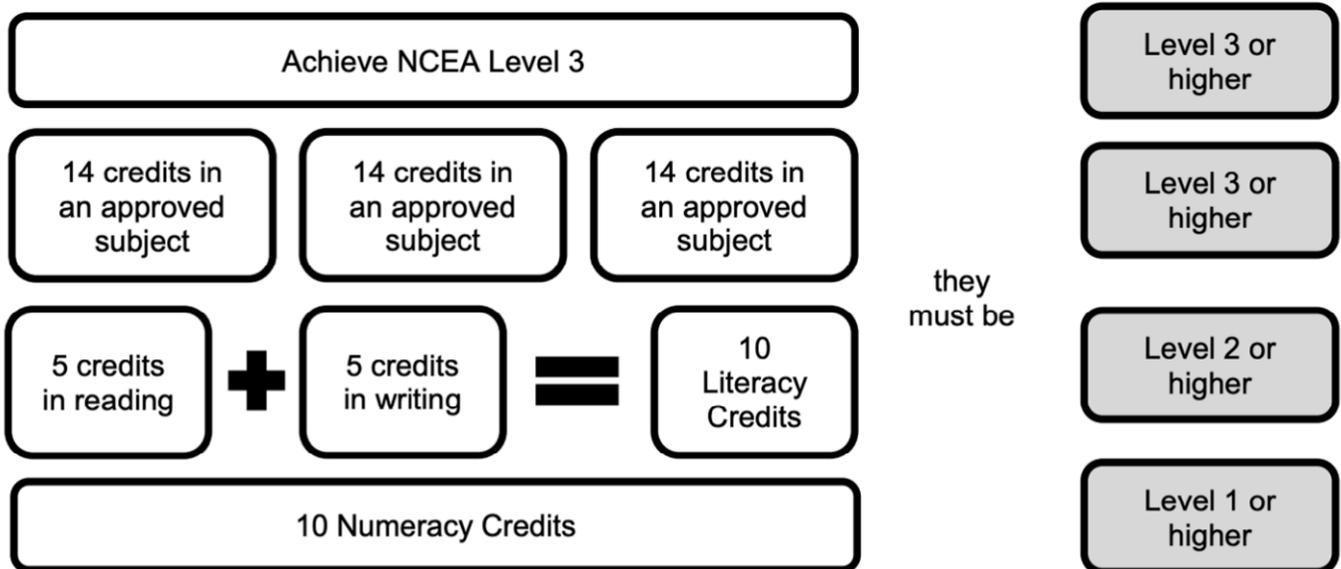
- All Year 13 students must be undertaking a full-time course of six subjects, which includes the compulsory Religious Studies programme.
- Religious Studies is the only compulsory subject at this level, but students intending to continue to tertiary study should note which subjects are on the approved subject list for university entrance.
- Although we do try to avoid setting prerequisites, there are some subjects that prefer the students to have a degree of prior learning and understanding. For example, a certain level of attainment in Level 2 Chemistry may be required to take Level 3 Chemistry. Alternatively, credits from a particular unit standard may be needed. For some subjects, all that is needed is your interest and commitment.
- We have introduced several subjects which may be started at Level 3. Please check the Subject Guidance if you intend to begin studying a new subject.
- Students who wish to repeat a Level 2 subject will only be permitted to do so if the Head of Department and their Dean are satisfied that the student has been putting in a genuine effort during the year.

## YEAR 13 SUBJECT SELECTION Cont.

- All courses are offered to enough students entering them to make a viable class. Every attempt is made to provide students with their selection. Occasionally this is not possible and students will be required to choose an alternative subject.
- Because tertiary institutions apply different criteria to NZ Citizens, Permanent Residents and international students, all students are responsible for checking entry details with the tertiary institution they plan to attend.
- Students intending university study should choose NCEA Level 3 subjects from the approved list produced by NZQA, (and listed on the next page), provided they meet the specific subject entry requirements.
- To achieve University Entrance (UE) all students (domestic and international) must meet the literacy requirements as listed on the next page.
- Students should consult tertiary institutions to ensure they choose any required subjects for the courses they are interested in studying.
- Students are advised to access websites and published material available through Ms O'Reilly (HOD Careers) or other careers staff.

University Entrance (UE) is the minimum requirement to go to a New Zealand university.

To gain UE you will need to:



Note 1: Literacy and numeracy credits can be obtained from certain other subjects, as well as English and Mathematics.

Note 2: The above are minimum requirements and universities such as the University of Auckland may have more stringent requirements for many courses. Details can be obtained from the various university websites or from the school Careers Advisors.

Once you have met the requirements for University Entrance it will appear on your Record of Achievement.

**Applicants to New Zealand universities require credits in approved subjects.** The list can be found on the NZQA website:

[www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/approved-subjects](http://www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/approved-subjects)

## SUBJECT SELECTION GUIDE

Religious Studies is compulsory. Tick the subjects you wish to take.

LEARNING AREA	YEAR 11	YEAR 12	YEAR 13
RELIGIOUS STUDIES	RST	RST	RST
ENGLISH	English	English + Internal English	English
LANGUAGES	Te Reo Māori <i>Offered via Te Kura:</i> French German Japanese Samoan Spanish	Te Reo Māori <i>Offered via Te Kura:</i> French German Japanese Samoan Spanish	Te Reo Māori <i>Offered via Te Kura:</i> French German Japanese Samoan Spanish
MATHEMATICS	Mathematics Applications Mathematics	Mathematics Applications Mathematics	Mathematics Applications Mathematics with Calculus Mathematics with Statistics
PHYSICAL EDUCATION & HEALTH	Food & Nutrition / Health Physical Education Studies	Food & Nutrition / Health Physical Education Studies	Food & Nutrition Health Physical Education Studies
PRIMARY INDUSTRIES	Agri Science Primary Industries Trade Academy	Primary Industries Trade Academy	Agri Science Primary Industries
SCIENCE	Science	Biology Chemistry Physics	Biology Chemistry Physics
SOCIAL SCIENCES	Commerce Geography History	Accounting Business Enterprise (YES) Economics Geography History	Accounting Business Enterprise (YES) Economics - via Te Kura Geography History
TECHNOLOGY	Digital Technologies Product Design Technology – Engineering Technology – Wood	Digital Technologies Product Design Technology – Engineering Technology – Wood	Digital Technologies Product Design Technology – Wood
THE ARTS	Music Visual Art	Music Painting Photography	Design Music Painting Photography
CAREERS & PATHWAYS		<ul style="list-style-type: none"> <li>• Gateway</li> <li>• STAR</li> <li>• Trades Academy</li> </ul>	<ul style="list-style-type: none"> <li>• Careers Pathway Prog.</li> <li>• Gateway</li> <li>• STAR</li> <li>• Trades Academy</li> </ul>

# SUBJECT SELECTION FORM

## Subject Selection Guide:

- You are advised to inspect our subject selection booklet on [www.fdmc.school.nz](http://www.fdmc.school.nz) and speak with staff members and parents before making your selections.
- Select subjects by ticking those you wish to study in 2026. Use the subject/pathway table on the previous page and the form below to guide your selection.
- All students will study Religious Studies. In addition, all:
  - Year 12 and 13 students must choose five (5) subjects.
- **Note:** Although English is no longer compulsory at Level 2 please check carefully that it is not a requirement for what you want to do. For example: Level 2 Reading and Writing Credits for University. *Auckland University require you to have 17 credits in English at Level 2 or above.*

## Please Note:

- Subjects are dependent on student numbers. Careful selection of subjects means finding out about the pathways that link your subject selection with your future goals.
- You need to consider this when selecting your subjects and considering future pathways.
- Students wishing to study STAR, Trades Academy, Gateway or CPP will need to collect a separate application form from the Careers Office (or see Ms O'Reilly).
- Please complete the form below as an initial step in the subject selection process.

## Subject Selection Form Yr 13

STUDENT NAME:		YR LEVEL 2026:
Subject 1	<b>Religious Studies</b>	
Subject 2		
Subject 3		
Subject 4		
Subject 5		
Subject 6		
Backup Subject 1		
Backup Subject 2		

# YEAR 13 COURSES 2026



*Faith, Service, Community, Excellence*



**Description:**

Accounting is the language of business. This course is designed for students who wish to pursue a career in Accounting or Commerce. Students will learn how to maintain the accounts for a business or company in the future. It covers more advanced accounting language and concepts, the processing of transactions, the creation of financial statements, and the analysis of NZX firm's annual reports and financial statements. Students will also look at pricing, profits and business financial management.

Entry Requirements	Course Endorsement	Contact	Cost
HoD or Teacher Approval	Yes	Mr Mark Sewter mse@fdmc.school.nz Mr Mark Wales mwal@fdmc.school.nz	\$35 for workbooks

UE Literacy Credits Available	Internal	External
Total Reading Credits	5 or	N/A
Total Writing Credits	5	N/A

**Leads to:** Level 3 Accounting is a sound building block for wanting to study Commerce/Business or Accountancy. Those going into management positions or business, the skills learned in this subject will be of immense advantage.

**Description:**

New Zealand needs people who are able to apply agricultural science knowledge and skills to new situations and to the solving of agricultural problems. This programme is based on realistic and practical contexts. Students will use creativity, logic, and knowledge to find innovative solutions to real-life problems with an agricultural focus.

Entry Requirements	Course Endorsement	Contact	Cost
HoD or Teacher Approval based on the prerequisite stated below. A minimum of 12 credits in a Level 2 Science based course is required.	Yes	Mrs Aimee Watkins awa@fdmc.school.nz	N/A

UE Literacy Credits Available	Internal	External
Total Reading Credits	6 or	6
Total Writing Credits	10 or	10

**Leads to:** Level 3 Agri Science is an academic, UE approved course. Ideal for any student wanting to study Agricultural Science or Commerce, Horticultural Science, Biology, Ecology, Forestry, Agribusiness, Environmental Science or similar degrees or diplomas.

**L3 BIOLOGY****UE Approved****Description:**

The course is designed for students who have a keen interest in the biological world and may require science credits for future studies. Many qualifications in science/environmental/health require students to have a good understanding of the biological world. This course explores plant and animal responses, evolution, current socio-scientific issues, and develops practical science skills.

Entry Requirements	Course Endorsement	Contact	Cost
Achieved TWO external standards in Level 2 Biology or HoD Approval	Yes	Mr Josh Morris jom@fdmc.school.nz	Workbook (Approx. \$25)

UE Literacy Credits Available	Internal	External
Total Reading Credits	6	9
Total Writing Credits	N/A	9

**Leads to:** Further study in the sciences including AgriScience, AgriCommerce, Animal Husbandry, Sports and Nursing.

**L3 BUSINESS ENTERPRISE****UE Approved****Description:**

Level 3 Business Enterprise continues to develop students' experience of starting and running their own business. It has a strong entrepreneurial focus and involves the commitment of being part of a Young Enterprise team. All businesses take part in the Taranaki and National YES (Young Enterprise Scheme) competition which involves students creating a business plan and presenting to a Dragons Den. Students financially benefit from their efforts and successes. Internal assessments are intertwined into the course and run parallel with the business activities. Working as a team is an essential part of this course, as is meeting deadlines.

Entry Requirements	Course Endorsement	Contact	Cost
Approval of the HoD or Teacher in Charge	No	Mrs Pascale Joines pjo@fdmc.school.nz Mr Mark Wales mwal@fdmc.school.nz	Capital start-up funds are raised by the students themselves.

UE Literacy Credits Available	Internal	External
Total Reading Credits	9	N/A
Total Writing Credits	N/A	N/A

**Leads to:** Careers in Business, Entrepreneurship and Startup Companies. This subject is a University Entrance accepted domain.

## CAREERS PATHWAY PROGRAMME (CPP) - YEAR 13

### Description:

The Career Pathways Programme (CPP) is ideal for work ready, motivated students. It is a full time programme designed for senior students outside of the conventional school curriculum. It is for students who want to be at school and provides them with an opportunity to learn about themselves and their preferences to the next step.

The aim of CPP is to provide a supportive, meaningful, alternative learning environment for students who have achieved all they can from the conventional programme offered at FDMC. The programme targets students who may wish to go on to further training, or work, during or at the end of the school year. It is designed to give students a chance to gain knowledge, skills and experiences for transition to tertiary learning or the workplace.

The student's timetable is separate from the rest of the College and generally students can not undertake any conventional classes. Some flexibility is needed to fit in with 3 Plus 2, Trades Academy and STAR courses and Work Exploration/Gateway, i.e. students may be required to work hours outside of the normal school day.

The programme has a compulsory in-school component mainly related to Life-Skills (Communication, Self-Management, Cooking) Workplace Literacy, Financial Literacy, Physical Education and Religious Education. Whilst there is a core programme, there may be variations on the theme according to students' needs, abilities and career goals. A range of training opportunities may be possible e.g. automotive, engineering, hospitality, carpentry, retailing, electro-technology, etc. These programmes are run outside of the school by NZQA-accredited providers. All programmes are unit standards based so that the students will gain credits towards nationally recognised certificates and qualifications and can also complete NCEA requirements.

Entry Requirements	Contact	Cost
Student commitment to the programme is essential. A minimum requirement is for the student to hold their Learners Licence. Students may be required to undergo a drug test in preparation to be work ready. Application forms can be obtained from the Careers Office.	Ms Lauren O'Reilly lor@fdmc.school.nz	Special clothing and safety footwear may be required for some positions.

**Leads to:** The combination of courses and Gateway/work experience allows students to develop work skills and gain an employment record. This enables them to prove themselves to an employer, which in the past has often led to full time employment.

**L3 CHEMISTRY****UE Approved****Description:**

The applications of Chemistry to modern living are many and varied, and this subject has never been more relevant. The course is an interesting mix of theoretical and laboratory work, and considers the application of Chemistry in industrial, biological and biochemical systems.

Entry Requirements	Course Endorsement	Contact	Cost
Achieved at least TWO external standards in Level 2 Chemistry.	Yes	Ms Anna Langford ala@fdmc.school.nz	Workbook (Approx. \$25)

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** Careers in many fields including Chemistry, Medicine, Veterinary Science and Engineering.

**L3 DIGITAL TECHNOLOGIES****UE Approved****Description:**

This course is designed for students who want to extend their programming and computer science skills, or to build on those learned in the Level 2 DT course. Students will design and develop a digital solution to solve a problem. Students may select the programming language and/or digital tool/s best suited to solve the problem (e.g. Python, database design, game design, web design).

Entry Requirements	Course Endorsement	Contact	Cost
Level Two Digital Technologies (achieving all credits). HoD Approval.	Yes	Mr Andy Evans aev@fdmc.school.nz Mrs Melinda Stevenson mel@fdmc.school.nz	N/A

\*Students may select standards to take them to a maximum of 22 credits.

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	4

**Leads to:** Further study in the field of Computer Science and Information Technology.

**Description: Via Te Kura**

This course examines different markets using models to explain behaviour of consumers, producers and government. Microeconomic concepts include personal economics, individual firms' economics and market structure economics. Students study the role of the market in the economy and how that role can be modified by the government, exploring how government and public policy economics can intervene and correct a negative market.

Entry Requirements	Course Endorsement	Contact	Cost
Teacher or HoD Approval	Yes	Mr Mark Sewter mse@fdmc.school.nz	\$35 for Workbook

UE Literacy Credits Available	Internal	External
Total Reading Credits	10	8 or
Total Writing Credits	N/A	8

\*Optional 6 external credits available giving either 6 Reading or 6 Writing UE literacy credits.

**Leads to:** Further study in political science, law, commerce.

**Description:**

This course is designed for students who are looking to study language-rich subjects at University. It is also useful for those wishing to pursue academic courses, such as Medicine and Engineering. It covers similar standards to those taught at Level Two English with extension work on offer for Scholarship candidates.

Note: There is no planned Level 3 Internal English course. However, if students are interested in taking Internal English at Level 3, they should select Level 3 English and write – Interested in Level 3 Internal Course.

Entry Requirements	Course Endorsement	Contact	Cost
HoD Approval	Yes	Ms Renée Woollaston rwo@fdmc.school.nz	N/A

UE Literacy Credits Available	Internal	External
Total Reading Credits	4	8 (4 + 4) or
Total Writing Credits	6	12 (4 + 4 + 4)

**Leads to:** Tertiary studies and a wide range of professional vocations.

**Description:**

In Food and Nutrition, students will develop an understanding of the factors that influence the well-being of individuals and families within the home and community, and actions people take to enhance and sustain those environments. Students will analyse and evaluate food related issues present in New Zealand Society and nutritional issues affecting wellbeing. We will also look at ethical issues and health practices affecting everyday New Zealanders.

Entry Requirements	Course Endorsement	Contact	Cost
Level 2 Food & Nutrition/Health or HOD approval	Yes	Mrs Sheree Asi sas@fdmc.school.nz	N/A

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	4

**Leads to:** A broad range of vocational and learning pathways in the health science/technology or teaching areas.

## GATEWAY YEAR 12 AND 13

**Description:**

Gateway opens a pathway from school to the world of work. It's a great opportunity to blend school study with workplace learning and experience. Learning is assessed in the workplace, counting towards national qualifications. Gateway is timetabled as a subject one period per day and has a compulsory work experience component, often one day per week. Gateway consists of individual programmes delivering Unit Standards towards NCEA and other National Certificates in a range of industries. Not all Gateway packages are at Level 3.

Entry Requirements	Placement Examples	Contact	Cost
Students are selected via an application and interview process. Application forms can be obtained from the Careers Office.	Agriculture, Animal Care, Baking, Boat Building, Building and Construction, Business, Administration, Contracting, Dairy Manufacturing, Education, Electrical, Electrical Supply, Engineering, Food Processing, Forestry, Furniture & Joinery, Hairdressing, Health, Horticulture, Hospitality, Media, Motor Engineering, Plastics, Plumbing, Printing and Design, Retail, Road Transport, Sport and Recreation, Sports Turf Management, Telecommunications and Tourism	Mrs Kylie Read kre@fdmc.school.nz	

**Leads to:** Opens the door to apprenticeships or further training towards an apprenticeship.

**Description:**

This course is designed for students who wish to gain a detailed understanding of the dynamic world they live in; exploring the interaction between te tāngata (the people) and te taiao (the environment). Students will investigate global patterns of maritime piracy, learn how decision making ensures the success of significant events such as the New Plymouth Festival of Lights or Rhythm and Vines, conduct geographic research about coastal processes in North Taranaki, and analyse the tourism industry of Rotorua. Geographic skills and concepts, including the use of Geographic Information Systems (GIS) are integrated into the course throughout the year.

Entry Requirements	Course Endorsement	Contact	Cost
Teacher or HoD Approval	Yes	Mr Mark Wales mwal@fdmc.school.nz	Field trip to Rotorua (Approx. \$350)

UE Literacy Credits Available	Internal	External
Total Reading Credits	6	8 or
Total Writing Credits	N/A	8

**Leads to:** Geography/Environmental Science or Geological Surveying university courses. A wide range of careers such as engineer, surveyor, planner, tourist operator, geologist, developer and much more.

**Description:**

Students will develop their understanding of the factors that influence the health of individuals, groups, and society: lifestyle, economic, social, cultural, political, and environmental factors. They will develop competencies for mental wellness, reproductive health and positive sexuality, and safety management. Students will learn to develop empathy and the skills to enhance relationships.

Entry Requirements	Course Endorsement	Contact	Cost
HoD or Teacher Approval based on the prerequisite stated above.	Yes	Mrs Lana Rowland lro@fdmc.school.nz	\$70 for workbook

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** Level 3 Health is an academic, UE approved course. This course is a great lead into a broad range of vocational and learning pathways in the Health Science, Science, Technology or teaching areas.

**L3 HISTORY****UE Approved****Description:**

This course teaches valuable skills which can be translated into many different academic areas. It is excellent preparation for many university courses in commerce, law and the arts. The course aims to develop a high level of critical thinking so that students are able to analyse historical events in an effective way. The three main historical topics are: The significance of the Battle of Passchendaele and its impact on NZ, the temperance and prohibition movement in the United Kingdom, USA and New Zealand, and the Cold War and its impact on society.

Entry Requirements	Course Endorsement	Contact	Cost
Teacher or HoD Approval	Yes	Mr Martin Dravitzki mdr@fdmc.school.nz Mr Mark Wales mwal@fdmc.school.nz	N/A

UE Literacy Credits Available	Internal	External
Total Reading Credits	10	10 or
Total Writing Credits	N/A	10

**Leads to:** Tertiary study and other vocations requiring good literacy skills and critical thinking.

**L3 MATHEMATICS APPLICATIONS****UE Approved****Description:**

This course in applied mathematics and statistics covers a range of mathematical skills as well as equipping students to understand and use data. Topics covered include investigating bivariate and time series data, linear programming methods, simultaneous equations, critical path analysis, and analysing statistical reports. The course cannot be taken in conjunction with any other Level 3 Mathematics course.

Entry Requirements	Course Endorsement	Contact	Cost
Level 2 Mathematics or Mathematics Applications or HoD Approval	Yes	Mr Matt Casey mca@fdmc.school.nz	Scientific Calculator (Approx. \$30) & Workbook (Approx. \$30)

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	4 or
Total Writing Credits	N/A	4

**Leads to:** A general course of practical applications of mathematics that is applicable to some university courses and trades.

## L3 MATHEMATICS WITH CALCULUS

UE Approved

### Description:

This course will equip students who are looking at studying mathematics rich subjects at university such as Engineering. Topics covered include trigonometry, differentiation, integration and complex numbers. This course can be taken in conjunction with Level 3 Mathematics with Statistics.

Entry Requirements	Course Endorsement	Contact	Cost
Level 2 Mathematics incl. 91261 & 91262 or HoD Approval.	Yes	Mr Matt Casey mca@fdmc.school.nz	Graphing Calculator (Approx. \$120) & Workbook (Approx. \$30)

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** Mathematics, Engineering, Surveying/Applied Sciences at university.

## L3 MATHEMATICS WITH STATISTICS

UE Approved

### Description:

This course will equip students who are looking at studying statistics rich subjects at university such as Commerce and Social Sciences, as well as turning data into knowledge and making sense of this in an information rich age. Topics covered include investigating bivariate and time series data, probability concepts and distributions, and analysing statistical reports. This course can be taken in conjunction with Level 3 Mathematics with Calculus but not Level 3 Mathematics Applications.

Entry Requirements	Course Endorsement	Contact	Cost
Level 2 Mathematics or Mathematics Applications incl. 91267 or HoD Approval	Yes	Mr Matt Casey mca@fdmc.school.nz	Graphing Calculator (Approx. \$120) & Workbook (Approx. \$30)

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	4 or
Total Writing Credits	N/A	4

**Leads to:** Mathematics/Statistics at university.

**L3 MUSIC****UE Approved****Description:**

Offered through Te Kura Correspondence School, with support from Mrs Lacanaria. This course is for students who are proficient on one or more music instruments and are planning to study Music at a tertiary level. This course offers solo and group performance opportunities, and the expectation is for students to have a portfolio of works (this may be through being a soloist with the New Plymouth Orchestra, Youth Orchestra or Brass Band).

Entry Requirements	Course Endorsement	Contact	Cost
HoD Approval	Yes	Mrs Dorothy Lacanaria dla@fdmc.school.nz	\$50

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** University Studies at institutions such as Victoria University School of Music, Whitireia, and performance, composition, band opportunities.

**L3 PHYSICAL EDUCATION STUDIES****UE Approved****Description:**

The course covers a wide range of topics and builds upon the foundation from Level 2 Physical Education studies. Students will analyse a physical skill in a sport such as Badminton or Golf, train for a Triathlon, examine issues around risk management in activities like skiing and tramping in a trip to Mt Ruapehu.

Entry Requirements	Course Endorsement	Contact	Cost
HOD Approval	Yes	Mr James Rowland jro@fdmc.school.nz	Risk Management Trip (Approx. \$350)

UE Literacy Credits Available	Internal	External
Total Reading Credits	7	N/A
Total Writing Credits	N/A	N/A

**Leads to:** A wide range of careers and further tertiary study options including personal training, physiotherapy, PE teaching, sports management and a multitude of options in the sport, health and fitness and outdoors sectors.

**Description:**

Physics aims to explain the nature and properties of matter and energy. Concepts such as motion, forces, waves and the different forms of energy are studied. Level 3 Physics is an academic course with the main focus being on the three external achievement standards. Two internal achievement standards are also offered, one of which is a research topic which students are expected to complete for homework following a week's tuition in class. A good mathematical ability, and a commitment to practise problem solving are required.

Entry Requirements	Course Endorsement	Contact	Cost
Achieve at least TWO external Level 2 Physics standards or HoD Approval.	Yes	Mr Charl van der Heever cva@fdmc.school.nz	Workbook (Approx. \$25)

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** Further Tertiary study in the fields of Engineering, Manufacturing, Technology, Construction, Infrastructure, Primary Industries, as well as Social and Community Services.

## L3 PRIMARY INDUSTRIES

**Description:**

This practical, hands on Level 3 course is designed specifically for students as a pathway within the Primary Industries and sectors. Unit standards obtained during this course can be credited towards NCEA Level 3. It is planned to offer a mixture of Agriculture and Horticulture based standards where students select the standards based on their interests up to a total of 20 credits.

Entry Requirements	Course Endorsement	Contact	Cost
Students should display an independent, safety conscious and cooperative work ethic at all times.	No	Mrs Aimee Watkins awa@fdmc.school.nz	N/A

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** Further education into a variety of primary industry qualifications or careers.

**L3 PRODUCT DESIGN****UE Approved****Description:**

Product Design enables students to use a wide range of materials and equipment such as 3D printing, laser cutting, CAD as well as more traditional design skills. This course is designed to allow students to identify their own area of interest within Technology and Design and /or pursue a pathway in product design with guidance from their teacher. Minimum 16 Credits however, students may select one of the optional standards (in negotiation with their teacher) to take them up to a maximum of 20 Credits.

Entry Requirements	Course Endorsement	Contact	Cost
Level 2 Product Design or HoD Approval	Yes	Mr Andy Evans aev@fdmc.school.nz	\$75.00 charge for 3D printing and other materials. Recommend own computer laptop

\*Students select compulsory & optional standards to take them to a maximum of 20 credits.

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** Career pathway in Design or Architecture.

**L3 RELIGIOUS STUDIES****UE Approved****Description:**

The course enables students to develop their skills of analysis and interpretation in the context of social and environmental issues that impact on the quality of human life. They will look at Social Justice through the Gospel Values.

Entry Requirements	Course Endorsement	Contact	Cost
N/A	Yes	Mrs Anna Zsigovits-Mace azs@fdmc.school.nz	N/A

UE Literacy Credits Available	Internal	External
Total Reading Credits	18	N/A
Total Writing Credits	N/A	N/A

**Leads to:** Good preparation for degrees in Theology, Arts, Humanities, Law, Psychology or Education. Careers include teaching, medicine, environment planning, law, politics, psychology or social work.

## L2, L3 STAR

### Description:

STAR stands for Secondary Tertiary Alignment Resource. This course is a full year course that consists of individual programmes through distance learning that deliver Unit Standards towards NCEA and other National Certificates in the chosen industry. STAR is timetabled as a subject one period per day.

STAR Unistart – Canterbury and Waikato University offer papers in a wide range of subjects – available to Year 13 students who achieved Level 2 with Merit or Excellence. These can usually be cross credited to other Universities.

Entry Requirements	Possible STAR Courses on offer	Contact	Cost
To be considered for a STAR full year course, an application form must be submitted to the Careers Office.	Agriculture, Automotive, Business, Fitness, Recreation and Sport, Health, Horticulture, Hospitality and Tourism.	Ms Lauren O'Reilly lor@fdmc.school.nz	

**Leads to:** NCEA or University credits.

## L3 TECHNOLOGY WOOD

### Description:

The course covers a wide range of design and woodworking skills and knowledge that will be practised and then applied to two projects. The projects used to deliver the standards are an indoor occasional table and an outdoor furniture design project.

Entry Requirements	Course Endorsement	Contact	Cost
14 Level Two Technology Wood or Level 2 Engineering Course credits or HoD Approval.	Yes	Mr Andy Evans aev@fdmc.school.nz	\$125

\*Students select compulsory & optional standards to take them to a maximum of 22 credits.

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** A Trades pathway such as building, joinery, construction or associated trades.

**Description:**

Offered through Te Kura Correspondence School, this course builds on vocabulary and sentence structures from Level 2. The key language skills (Pānui, Kōrero, Tuhituhi and Whakarongo) are further developed. Topics covered in this course include: whānaungatanga, Te Whenua Ora, Nga Mahi Raranga, Whaikorero, Etahi tikanga, Nga Kai, Taranaki, Nga Toi Māori Tuku iho, Te Māori Ki Te Whenua Hou, Te Maunga Taranaki and Tangihanga.

Entry Requirements	Course Endorsement	Contact	Cost
Level 2 Te Reo Māori	Yes	Mrs Dorothy Lacanaria dla@fdmc.school.nz	N/A

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	6
Total Writing Credits	N/A	4

**Leads to:** Further study at University, a career in Teaching, Social Work and Community Development Work.

## TRADES ACADEMY

**Description:**

Taranaki Trades Academy is a vocational qualification while still at school. Students can remain engaged in education, be assisted in transition from a secondary to tertiary learning environment and gain credits towards NCEA Level 2 and a tertiary qualification.

While at the Taranaki Trades Academy students learn in a practical and hands-on environment using industry standard equipment and technology relevant to their chosen career path. They will also develop the foundation skills they need to progress on to further study opportunities or move directly into employment. Students will attend a WITT course one day per week and will be timetabled into a Pathways class one period a day.

Entry Requirements	Possible Trades on Offer	Contact	Cost
Year 12 and 13 students who wish to be considered for Trades Academy must get a separate application form from the Careers Office.	Agriculture, Animal Care, Automotive, Building, Business Innovation and Technology, Cookery, Digital Media, Electrical, Engineering, Forestry, Joinery, Plumbing, Policing, Restaurant Service, Salon Skills and, Sport and Fitness.	Mrs Kylie Read kre@fdmc.school.nz	N/A

**Leads to:** A head start on a Trades career while still at school and achieving NCEA.

**L3 VISUAL ART – DESIGN****UE Approved****Description:**

Offered through Te Kura Correspondence School, Level 3 design will appeal to students with a good grasp of computer skills and artistic flair who are creative and wish to pursue an interest in design, advertising, marketing, web, animation etc., at University or Polytechnic.

Entry Requirements	Course Endorsement	Contact	Cost
Level 2 Visual Art / Digital Technology or HoD Approval	Yes	Mrs Jane Aitken Connolly jac@fdmc.school.nz	\$100

UE Literacy Credits Available	Internal	External
Total Reading Credits	4	N/A
Total Writing Credits	N/A	N/A

**Leads to:** The design portfolio can be used for folio submission purposes for Design, Fine Arts and Architecture applications to a range of Tertiary Institutes throughout New Zealand.

**L3 VISUAL ART – PAINTING****UE Approved****Description:**

The NCEA Level 3 Painting course enables students who have studied Year 12 Visual Art and are seriously considering tertiary study, an apprenticeship or career in the Creative Industry pathway, the opportunity to develop their techniques, skills and talents further. The major component of this course is the 3-board external portfolio.

Entry Requirements	Course Endorsement	Contact	Cost
Level 2 Visual Art or HoD Approval	Yes	Mrs Jane Aitken Connolly aev@fdmc.school.nz	\$100

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** The painting portfolio can also be used for folio submission purposes for Design, Fine Arts and Architecture applications to a range of Tertiary Institutes throughout New Zealand.

**Description:**

The NCEA Level 3 Photography course builds on the range of basic camera and darkroom techniques introduced in the Year 12 course. The major component is the completion of a 3-board folio for the external submission. Students studying photography at this level should be able to use digital cameras and related computer programmes, although motivated students can pick this subject up with no prior experience.

Entry Requirements	Course Endorsement	Contact	Cost
Level 2 Photography or HoD Approval	Yes	Mrs Jane Aitken Connolly jac@fdmc.school.nz	\$150

UE Literacy Credits Available	Internal	External
Total Reading Credits	N/A	N/A
Total Writing Credits	N/A	N/A

**Leads to:** The photography portfolio can also be used for folio submission purposes for Design, Fine Arts and Architecture applications at a range of Tertiary Institutes throughout New Zealand. It can also be used for pursuing a photo-journalism career.





# FRANCIS DOUGLAS MEMORIAL COLLEGE

*A Catholic College in the tradition of the De La Salle Brothers*

*Enter to learn, leave to serve.*

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