

FRANCIS DOUGLAS MEMORIAL COLLEGE



Year 11 – 13 Subject Handbook For 2020

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PLEASE NOTE: Subjects are listed in **alphabetical order** with the highest level of that subject first. e.g., English Level 3, English Level 2 and then English Level 1.

FRANCIS DOUGLAS MEMORIAL COLLEGE

INTRODUCTION

Welcome to the Francis Douglas Memorial College 2020 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 Education (NCEA) and Vocational Pathways.

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, talk to people who are knowledgeable, especially Ms Lauren O'Reilly (HOD Careers Department) and Ms Christel Chapman.

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 work place.

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:

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

COURSE SELECTION PROCESS AT FDMC

WHAT	WHEN
Students and caregivers will be able to access the Subject Handbook online from Week 2, Term 3	Term 3, Week 2 - 29 July
Students are given a Course Selection/Expression of Interest Form & Subject Selection Handbook in VF	Term 3, Week 3 – 9 August
Subject Information Evening for Yr 10-12 Students	Term 3, Week 4, Wednesday 14 August – 6.30pm
Yr 11 & 12 students and parents/caregivers attend optional subject selection counselling	Term 3, Week 6
Students are to complete expression of interest/subject selection form. To be returned not later than Friday 13 September	Term 3, Week 8, 13 September
Yr 10 students and parents/caregivers attend compulsory subject selection counselling	Term 3, Week 9 (Wednesday 18-Friday 20 September)
Construction of the 2020 timetable begins.	Term 4

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

- Accounting – Mr Mark Sewter
- Agri Business - Mrs Aimee Watkins
- Agricultural & Horticultural Science – Mrs Cath Spindler/Mrs Aimee Watkins or Mrs Colleen Severinsen
- Business Management/Young Enterprise – Ms Briana Matthews/Mr Mark Sewter
- Careers (Gateway / Star / CPP) – Ms Lauren O’Reilly
- Digital Technologies – Mr Andy Evans
- Economics – Mr Mark Sewter
- English – Mrs Sally O’Neill
- Home Economics / Health - Mrs Lana Rowland
- Future Problem Solving/Education for Sustainability – Mrs Robyn Wackrow
- Geography – Mr Mark Wales
- Design and Visual Communication – Mr Andy Evans
- History – Mr Martin Dravitzki
- Languages – Ms Christina Hermanns
- Māori – Mr Taare Ruakere
- Mathematics – Mr Shintaro Kirkcaldie
- Media Design – Mrs Pascale Joines
- Music – Mr Tobias Wright
- NZQA Liaison/DP Curriculum – Mrs Melinda Stevenson
- Physical Education/Outdoor Education – Mr Matt Lash
- Product Design - Mr Andy Evans
- Religious Education - Mrs Anna Zsigovits-Mace
- Science – Mrs Colleen Severinsen
- Social Studies – Mrs Pascale Joines
- Technology – Mr Andy Evans
- Visual Arts – Mrs Jane Aitken Connolly

CHOOSING A PROGRAMME OF STUDY

Every effort is made to ensure as many students as possible are able to study a programme of their choice. It is a priority of the school to offer a continuity of courses and to structure the school timetable to meet student need. However, subjects which do not attract sufficient student numbers may not be able to run, or may have to be offered with reduced teacher contact hours. Study through the Correspondence School may also be an option.

Subject choice is based around three factors

1. Skills & ability
2. Interest
3. Career pathways

It is not expected that students will know exactly what they wish to do when they finish secondary school but some serious thought should have been given to possible options.

Some points to remember when choosing subjects

1. Be clear about what subjects you enjoy the most,
2. Be clear about your ability in each subject. Check with your teachers if necessary,
3. Ask your parents or caregivers about skills and abilities that you have,
4. Seek information from your class teachers, Deans and Career staff,
5. Look in the newspaper and career websites to find out about the types of jobs that are available,
6. Ask the question: "Am I qualified to get the career I would really like when I leave school?"
7. Find out what subjects relate to their vocational pathway jobs using www.careers.govt.nz,
8. Keep options open in Year 11; AND
9. CONSULT THE CAREERS STAFF about any of the above as required.

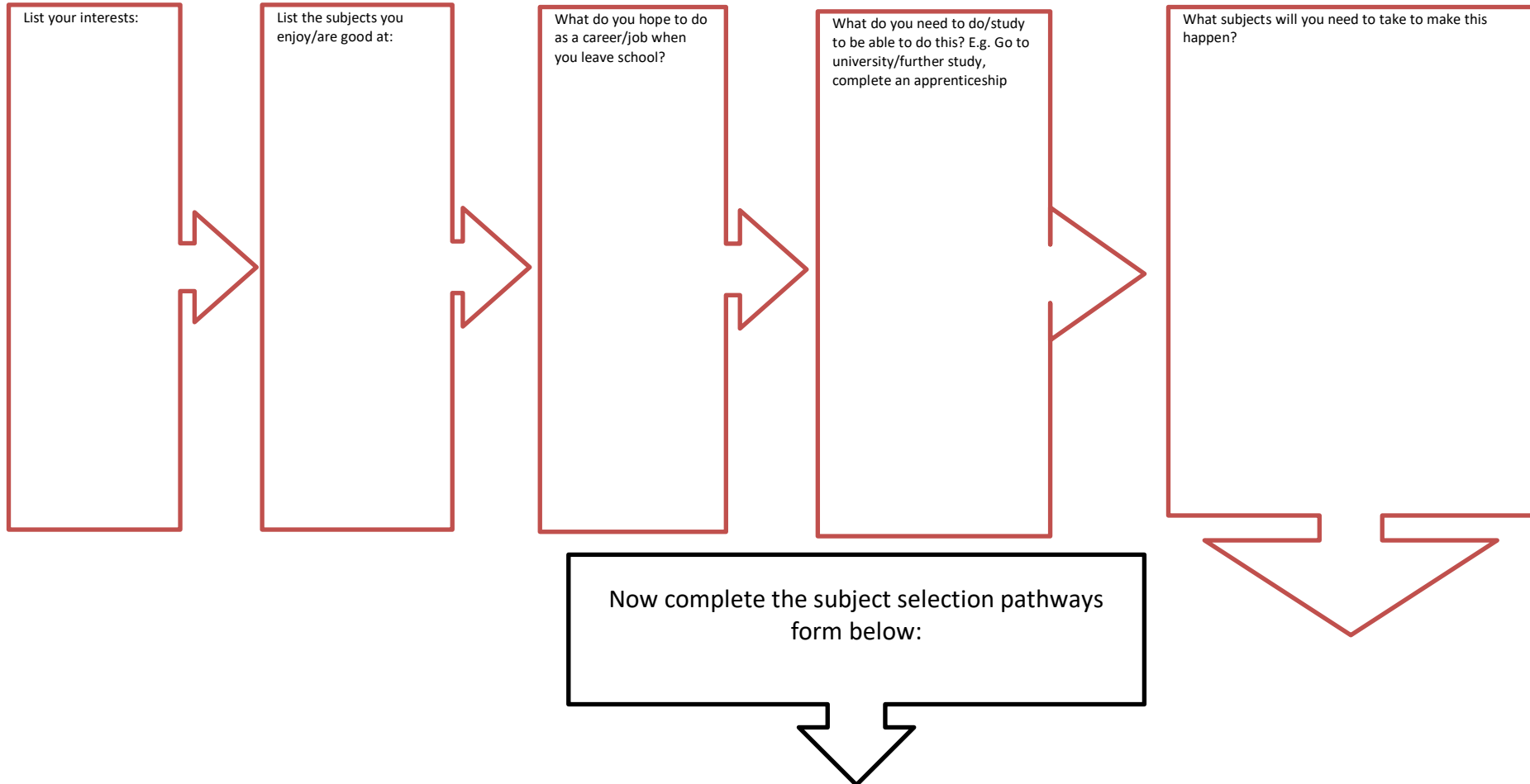
Before making a final decision on your course for next year consider those subjects which would be of use in a future career path. Careful selection of subjects means finding out about the pathways that link your subject selection with future goals.

Not all subjects continue. Make sure your pathway is not blocked by selecting a group of subjects that come from only one learning area.

If you are unclear about the pathways to a career in the future then be sure to select a range of subjects that can take you in different directions. Complete the **Subject Selection Pathway** form from Year 13 back to your current year. To find information about your possible course over several years follow the pathway of subject selection below.

SUBJECT PLANNING STEPS:

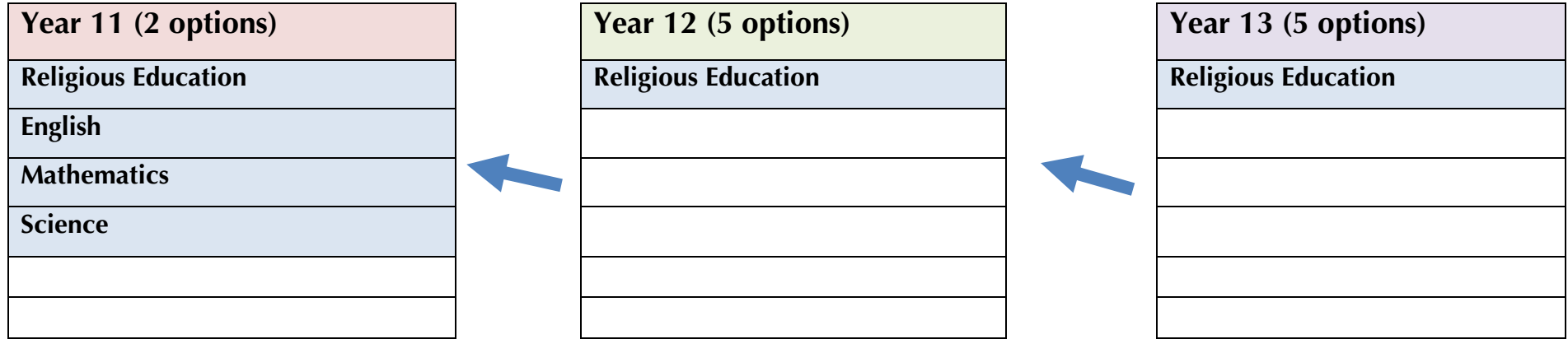
Careful choice of subjects is essential so plan out what you want to do and what you need to take to get there



Making Wise Choices – Subject Selection Pathway Form

If you do not know what tertiary path or career you may move into – subject choices should be kept broad and not subject specific.

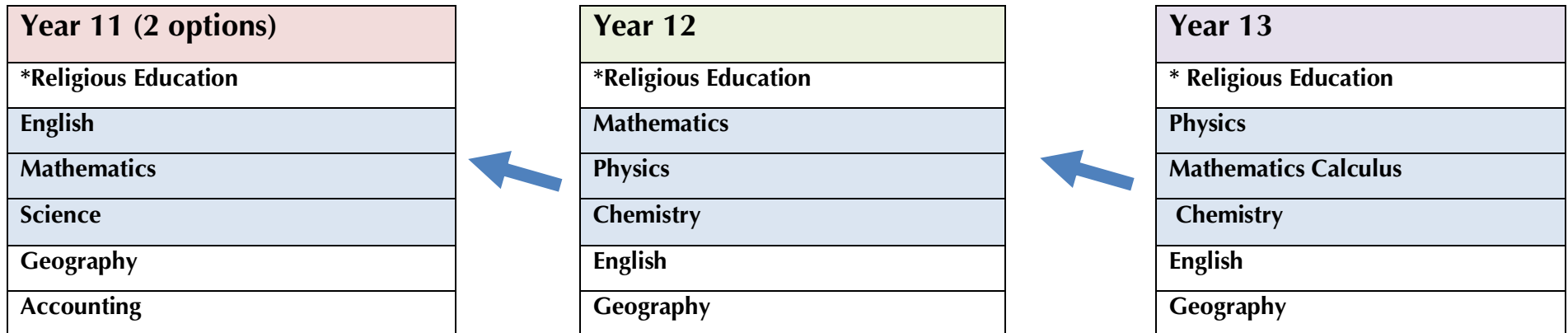
Backward Pathway Mapping can help you to select your subjects - Enter the 5 subjects you want to study at Year 13 and work backwards. Remember you can only select two options at Year 11.



FOR EXAMPLE, IF **ENGINEERING** IS THE CAREER OF YOUR CHOICE, THEN YOUR BACKWARD MAPPING COULD LOOK LIKE THIS:



THE BLUE SHADING INDICATES A COMPULSORY REQUIREMENT FOR THIS CAREER PATHWAY



CAREERS INFORMATION

Students must have a career plan and check that they have selected the right subjects for their career choice(s).

Some subjects are required study for specific career pathways.

Remember the following:

- All careers require Mathematics to some level and to an advanced level in a number of fields such as the Sciences.
- English is also required to some level in all careers and to an advanced level in information based careers such as Law.
- 5 Level 2 Reading and 5 Level 2 Writing Credits are needed to get University Entrance
- Science and Engineering careers usually require Mathematics, Chemistry and Physics as well as Biology in some cases.

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 careers information from the following information sources:

- The Careers Department Staff;
- Appropriate tertiary training provider booklets;
- Youth Guarantee Website www.youthguarantee.net.nz for Vocational Pathways information;
- Careers NZ Website www.careers.govt.nz for all careers 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 the FDMC

NCEA LEVELS AND CERTIFICATES

This Subject Handbook should be read in conjunction with [the NCEA Handbook issued to all senior students each year and also available online](#). This contains all the information you need to know in preparation for achieving NCEA at each level.

There are three levels of NCEA certificate, 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 level	Requirements
Level 1	80 credits are required at any level (level 1, 2 or 3) including literacy and numeracy . Schools can explain the literacy and numeracy standard pathways they are using.
Level 2	60 credits at level 2 or above + 20 credits from any level (these could be your level 1 literacy and numeracy credits) The Level 1 literacy and numeracy requirements must also be met.
Level 3	60 credits at level 3 or above + 20 credits from level 2 or above From 2014 the Level 1 literacy and numeracy requirements must also be met.

Credits gained at one level can be used for (or count towards) more than one certificate. They may also be used towards other qualifications. For example, unit standards in the domain 'generic computing' might be used towards a Level 2 NCEA certificate, as well as towards a National Certificate in Computing (Level 2); or 20 credits gained at Level 1 can also count towards a Level 2 NCEA certificate.

YEAR 11 SUBJECT SELECTION

Some Year 11 subjects can be chosen only when that subject has been studied in Year 9 or Year 10. Once you have checked these entry requirements in this booklet make sure your course:

- is a broad one allowing future flexibility
- suits your possible career needs
- will interest you, and therefore help you to succeed.

NUMBER OF SUBJECTS

When selecting your course **for NCEA Level One** consider the following points:

- You are to choose FIVE subjects. All students will also be involved in the Religious Education programme. Subject content will be assessed by achievement standards (AS), unit standards (US) or a combination of both. Achievement standards may involve both internal and external assessment (which will normally be an end of year examination). Unit standards are internally assessed.
- In most cases, the subjects you choose will be at Level 1. Study at any other level must be discussed with the Head of Department, Teacher in Charge and/or your Dean. Carefully check the flow charts for each subject to ensure it offers the path you need. Also read the subject information carefully for Subject Guidance: .
- All students are required to take an English subject.
- All students are required to take a Mathematics subject.
- All students are required to take Science.
- In addition to an English, Mathematics, Science and Religious Education, **TWO** other subjects are to be selected.
- Choose subjects that are appropriate to you. Also think ahead to Year 13 and be careful not to limit your options in years to come.
- We do our best to give students every opportunity to study the subjects they prefer. If there is any reason why the subjects you have chosen are unsuitable or unavailable, you will be notified as soon as possible.
- Make sure that you are clear about the subjects you want. There is only a brief window of opportunity to change your subjects in the first three weeks of Term One.

YEAR 12 SUBJECT SELECTION

When deciding on your course for Year 12, consider the following points:

- You are to choose five subjects. All students will also be involved in the Religious Education programme. Subject content will be assessed by achievement standards (AS), unit standards (US) or a combination of both. Achievement standards may involve both internal and external assessment (which will normally be an end of year examination). Unit standards are internally assessed.
- All students are required to take Religious Education.
- If you have not gained sufficient literacy and numeracy credits by the end of Year 11 to gain NCEA Level 1, you should be planning a Year 12 programme that will give you the opportunity to catch up. Please see Careers staff or your Dean if you need assistance.
- Year 12 is often a foundation for Level 3 study in Year 13. If you wish to enter degree level tertiary study check with the careers staff and/or the university/polytechnic/tertiary institute that you are taking the right courses.
- 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 a Level 1 subject may be required. Alternatively, credits from a particular unit standard may be needed. For some subjects, all that is needed is your interest and commitment.
- A wide variety of subjects is on offer at Year 12. Some courses may not run if there are not enough students choosing to do them. Other courses may close off at a certain number if there are too many applicants and if the school is unable to have more classes.
- You have the opportunity of multi-level study to cater for varying strengths and interests. Naturally, this is only possible if you can be accommodated on the school timetable. Study at a higher level than Level 2 requires the approval of your parent or caregiver, the Head of Department, the Dean and/or the DP Curriculum – Melinda Stevenson.

SUBJECT ENTRY TO YEAR 12 COURSES

Students who gain NCEA Level 1:

- Students who gain 80 credits or more in Level 1 NCEA, including 10 credits in literacy and 10 credits in numeracy, are deemed to have gained the NCEA Level 1 qualification. These students are entitled to attempt a full five-subject Level 2 course in subjects where they meet the entry requirements. (Note that six-subject courses require Dean and Deputy Principal approval).
- Entry to specific subjects is determined by the entry requirements set by each department. These are listed in this booklet. If a student does not meet the specific entry requirement, HOD approval may be sought depending on the student's particular circumstances.
- Students whose credits are unevenly spread across their subjects, with the result that they do not have the minimum number of credits required for some of the Level 2 subjects they wish to take, will be required to discuss their course with the DP Curriculum or Dean before school starts next year. These students may be best served by taking a combination of Level 1 and Level 2 courses.

Students who **Do Not** gain NCEA Level 1:

- Those students who achieve fewer than 80 credits, or who achieve more than 80 credits but *do not gain the required numeracy and/or literacy credits*, will not gain the Level 1 qualification. These students will need to take a combination of Level 1 and Level 2 subjects in Year 12. The number of Level 2 subjects that may be taken will be dependent on meeting individual subject entry requirements.
- For students who do not gain sufficient credits in any subject at Level 1, it may still be possible for them to take one NCEA Level 2 subject, however, they must request permission from the HOD of the subject that they are particularly interested in.

YEAR 13 SUBJECT SELECTION

The following information offers guidelines for course selection for Year 13 courses of study in 2018. Senior students are advised to contact the 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 Education programme.
- Religious Education 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 a Level 2 subject may be required. 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 a small selection of subjects which can be started at Level 3. Please check the Subject Guidance if you intend beginning 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.
- All courses are offered subject 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.
- Students should aim for the highest achievement possible in each standard. Year 12 results predetermine hostel accommodation offers and access to most university courses of study. Some universities also offer incentive scholarships for students who have gained excellence endorsements for NCEA Level 2.
- 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

University Entrance (UE) is the minimum requirement to go to a New Zealand university. To qualify you will need:

- NCEA Level 3
- Three subjects - at **Level 3**, made up of:
 - 14 credits each, in three **approved subjects**
- Literacy - **10 credits at Level 2 or above**, made up of:
 - 5 credits in reading
 - 5 credits in writing
- Numeracy - **10 credits at Level 1 or above**, made up of:
 - achievement standards – specified achievement standards available through a range of subjects, or
 - unit standards - package of three numeracy unit standards (26623, 26626, 26627- **all** three required).

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

APPROVED SUBJECTS FOR UNIVERSITY ENTRANCE

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

<http://www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/approved-subjects/>

Subject selection sheet for students in Years 11-13 in 2020

SUBJECT	LEVEL 1	LEVEL 2	LEVEL 3
Accounting			
Agri Business			
Agricultural & Horticulture			
Biology			
Business Studies			
Chemistry			
Digital Technology			
Economics			
Engineering Education 2 Employment (EE2E)			
English - Compulsory at Level One			
Future Problem Solving/EFS			
Gateway		C	C
German – Correspondence (C)	C	C	C
Geography			
Home Economics / Health			
History			
Japanese – Correspondence (C)	C	C	C
Mathematics	Tick this...		
Mathematics Applications	...or this		
Mathematics with Calculus			
Mathematics with Statistics			
Media Design			
Music			
Outdoor Education			
Physical Education Studies			
Physics			
Product Design / Technology			
Religious Studies	Compulsory	Compulsory	Compulsory
Social Studies			
Science - Compulsory at Level One			
Spanish – Correspondence (C)	C	C	C
STAR			
Technology - Wood			
Technology - Engineering			
Te Reo Māori			
Trades Academy			
Visual Art			
Visual Art – Painting			
Visual Art – Photography			
Visual Art - Design			

SUBJECT SELECTION GUIDE:

You are advised to inspect our subject selection booklet on 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 2019. Use this form to guide your online selection.

All students will study Religious Studies. In addition, all:

Year 11 students will study English, Mathematics and Science at Level 1
TWO (2) other subjects must be chosen.

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. 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.

A Black Square indicates the subject is not available at that year level. For example Outdoor Education is ONLY offered at Year 12 and Business Studies is NOT offered at Year 11.

You need to consider this when selecting your subjects and considering future pathways.

Students wishing to study STAR, Trades Academy, Gateway or CPP need to collect a separate application form from the Careers Office or Ms O'Reilly or Mrs Maclean. Please complete the selection form as an initial step in this process.

LEVEL & SUBJECT – ALPHABETICAL ORDER

Accounting Level 3

Content: Financial Statements, reports and business analysis for students studying commerce/business at university.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91406	5	Demonstrate understanding of company financial statement preparation	External	Num
AS 91407	5	Prepare a report for an external user that interprets the annual report of a NZ reporting entity	Internal	Num Lit1 UE Lit Rdg/Wrtg
AS 91408	4	Demonstrate understanding of management accounting to inform decision making	External	Lit1 Num
AS 91409	4	Demonstrate understanding of a job cost subsystem for an entity	Internal	Lit1 Num

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Advisable to have done Level 1 or 2 previously

What it leads to: Level 3 Accounting is a sound building block for those boys off to university. Studying Commerce/Business they will find this similar course in the first year. Students planning to do accountancy, this is a must. Those going into management positions or business, the skills learned in this subject will be of immense advantage.

Course costs \$35 for workbooks

For further information, see: Mr Mark Sewter or email: mse@fdmc.school.nz

Accounting Level 2

Content: This course builds upon the skills learned in Level 1 Accounting while setting the basis for a successful Level 3 year. Level 2 Accounting is a great bridging course between Level 1 and 3 expanding on previous knowledge and skills learned. Emphasis is put on practical processing in subsystems. Concepts, preparing statements and managerial analysis are also covered.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91174	4	Demonstrate understanding of accounting concepts for an entity that operates accounting subsystems	External	L1 Lit
AS 91176	5	Prepare financial information for an entity that operates accounting subsystems	External	Num
AS 91177	4	Interpret accounting information for entities that operate accounting subsystems	External	Num L1 Lit
AS 91179	3	Demonstrate understanding of an accounts receivable subsystem for an entity	Internal	Num L1 Lit
AS 91386	3	Demonstrate understanding of an inventory subsystem for an entity	Internal	Num L1 Lit

Num= standard counts towards numeracy credits. Lit1=standard counts towards literacy credits for Levels 1 & 2.

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Level 1 advisable

What it leads to: Level 2 Accounting seamlessly leads into Level 3 Accounting. Emphasis is put on practical processing in subsystems. Concepts, preparing statements and managerial analysis are also covered leading to greater skills and knowledge for the years ahead in the workforce.

Course costs: \$35 for workbook

Accounting Level 1

Content: Introductory course to preparing financial statements, analysing a firm's performance and some basic book-keeping.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90976	3	Demonstrate understanding of accounting concepts for a small entity	External	Lit 1
AS 90978	5	Prepare financial statements for sole proprietors	External	N/A
AS 90979	4	Prepare financial information for a community organisation's annual general meeting	Internal	Lit 1
AS 90980	4	Interpret accounting information for sole proprietors	External	Lit 1
AS 90982	4	Demonstrate understanding of cash management for a small entity	Internal	Lit 1

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: None

What it leads to: At this introductory level anyone wanting to have basic accounting skills and knowledge for their own business or a management position the Year 11 course is very useful. A solid introduction to accounting for personal use, clubs and firms.

Course costs \$5 for photocopying

For further information, see: Mr Mark Sewter or email: mse@fdmc.school.nz

Agribusiness Level 2

Content: This course is designed for students who enjoy science and commerce subjects. The course has an academic focus and exposes students to the wide range of skills required and the opportunities available in the primary sector beyond the farm gate. Students will engage in future and innovative thinking and develop problem-solving strategies and lifelong skills. They will build knowledge of the whole operation, and are encouraged to find innovative solutions to challenging operational issues. The programme will incorporate both Agri-science and agri-business aspects.

Proposed Assessment:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91294	4	Demonstrate understanding of how NZ commercial management practices influence livestock growth and development	External	Lit 1
AS 91865	4	Demonstrate understanding of future proofing influences that affect business viability	Internal	Lit 1
AS 91298	4	Report on the environmental impact of the production of a locally produced primary product	Internal	Lit 1
AS 91868	4	Demonstrate understanding of cash flow forecasting for a business	Internal	Lit 1
AS 90846	3	Conduct market research for a new or existing product	Internal	Num Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: None

What it leads to: This Agribusiness programme will prepare students for careers in the primary sector.

Course costs: \$25.00 for write-on book.

For further information, see Mrs Colleen Severinsen cse@fdmc.school.nz or Mrs Aimee Watkins awa@fdmc.school.nz

Agricultural/Horticulture Level 3

Content: Presented at this level 3 Course are unit standards provided by the Primary Industry Training Organisation and NCEA Achievement Standards. These unit and achievement standards allow students to gain credits towards NCEA and New Zealand Certificates in Agriculture. This course is theoretical in nature and assessments are on-going throughout the year.

Proposed Assessment:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
US 18	4	Demonstrate knowledge of animal anatomy and physiology	Internal	N/A
US 16	5	Describe pasture plants and production, and ways to optimise pasture growth and utilisation	Internal	N/A
US 582	6	Handle livestock when moving and drafting and when livestock are distressed	Internal	N/A
AS 91528	4	Carry out an investigation into an aspect of a New Zealand primary product or its production	Internal	Num L1 Lit
US 581*	4	Dock and treat lambs	Internal	N/A
US 10090*	5	Demonstrate knowledge of rearing lambs and hoggets	Internal	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

An * signals the assessment is **optional**

Course Endorsement: NO

Subject Guidance: None

What it leads to: The aim of this course is to provide a sound basis for further education and training for people interested in a career in the Agriculture and Primary Industries. This is a hands-on course and a willingness to work outside of the classroom is essential.

Course costs: None

For further information, see Mrs Catherine Spindler csp@fdmc.school.nz or Colleen Severinsen cse@fdmc.school.nz

Agricultural/Horticulture Level 2

Proposed Assessment

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91293	4	Demonstrate understanding of livestock reproductive techniques in commercial production in New Zealand	Internal	Lit 1
AS 91298	4	Report on the environmental impact of the production of a locally produced primary product	Internal	Lit 1
US 23540	5	Demonstrate knowledge of hazards, hazard control, and the consequences of injury in a rural workplace	Internal	N/A
US 19138	4	Monitor and interpret weather information	Internal	N/A
US 24822	4	Install wooden battens for fencing	Internal	N/A

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: None

What it leads to: The aim of this course is to provide a sound basis for further education and training for people interested in a career in the Agriculture and Primary Industries.

Course costs: None

For further information, see Mrs Colleen Severinsen cse@fdmc.school.nz or Mrs Cath Spindler csp@fdmc.school.nz

Agriculture Level 1

Content: Presented at this Level 1 course are achievement standards and a unit standard provided by the Primary Industry Training Organisation. These units allow students to gain credits towards NCEA. This course has both practical and theory and assessments are ongoing throughout the year.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90918	4	Carry out a practical agricultural or horticultural investigation.	Internal	Lit 1
AS 90157	4	Demonstrate practical skills used in agricultural or horticultural production.	Internal	Lit 1
AS 90920	3	Demonstrate knowledge of the geographic distribution of agricultural and horticultural primary production in New Zealand.	Internal	Lit 1
AS 90923	4	Demonstrate knowledge of basic plant propagation techniques.	Internal	Lit 1
Choice 1 AS 90921	5	Demonstrate knowledge livestock management practice.	External	Lit 1
Choice 2 US 1	5	Prepare and sow outdoor seedbeds manually	Internal	N/A

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: None

What it leads to: The aim is to provide a sound basis for further education and training for people interested in a career in the Primary Industries.

Course costs: Nil

For further information, see Mrs Colleen Severinsen cse@fdmc.school.nz or Mrs Cath Spindler csp@fdmc.school.nz

Biology Level 3

Content:

Level 3 Biology course explores plant and animal responses to their external environment, how animals maintain a stable internal environment, principles of evolution and trends in human evolution. This course is very relevant and includes investigations in the laboratory and field trips. Students can achieve up to 20 Level 3 NCEA credits.

Proposed Assessments:

Standard	Credits	Description	Internal/External	Numeracy & Literacy
AS 91601	4	Carry out a practical investigation in a biological context, with guidance.	Internal	Num Lit1
AS 91602 *	3	Integrate biological knowledge to develop an informed response to a socio-scientific issue	Internal	Lit1 UE Lit Rdg & Writg
AS 91603	5	Demonstrate understanding of the responses of plants and animals to their external environment.	External	Lit1 UE Lit Rdg & Writg
AS 91604	3	Demonstrate understanding of how an animal maintains a stable internal environment.	Internal	Lit 1 UE Lit Rdg
AS 91605	4	Demonstrate understanding of evolutionary processes leading to speciation.	External	Lit 1 UE Lit Rdg & Writg
AS 91606	4	Demonstrate understanding of trends in human evolution.	External	Lit 1 UE Lit Rdg & Writg

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits * **Optional Standard**

Course Endorsement: YES

Subject Guidance: Students must have achieved at least one of the internally assessed standards in (91153, 91158) and two externally assessed standards in Level 2 Biology (91156, 91157, 91159). The Level 3 exams require the writing of essays, and the standard of written literacy required is demanding. It is important that students have a high level of written literacy to do well in this subject. Approval from HOD Science is required for entry into the course.

What it leads to:

Year 13 Biology is useful and often essential, for students intending to follow careers in biological, ecological, medical, agricultural, veterinary or sport sciences.

Course costs

The purchase of a student write-on workbook. (approximately \$30)

For further information, see: Mrs J. Marshall, TIC Y13 Biology or email: jma@fdmc.school.nz

Biology Level 2

Content: This is an NCEA course where students will achieve up to 23 Level 2 credits. The NCEA Level 2 course explores the living world including ecology, life processes, cell processes, genetics and gene expression.

Proposed Assessments

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91153	4	Carry out a practical investigation in a biology context, with supervision	Internal	Num
AS 91156	4	Demonstrate understanding of life processes at the cellular level	External	Lit1
AS 91157	4	Demonstrate understanding of genetic variation and change	External	Lit 1
AS 91158	4	Investigate a pattern in an ecological community with supervision	Internal	Lit 1
AS 91159	4	Demonstrate understanding of gene expression	External	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Students need to have achieved at least TWO external standards in Level 1 Science. The Level 2 exams require the writing of essays, and the standard of written literacy required is demanding. It is important that students have a high level of written literacy to do well in this subject. Approval from HOD Science is required for entry into the course.

What it leads to:

Year 12 Biology is useful and often essential for students intending to follow careers in biological, ecological, medical, agricultural, veterinary or sport sciences.

Course costs:

The purchase of a student write-on workbook (approximately \$30).

For further information, see: Mr Nick Taylor or email: nta@fdmc.school.nz

Business Studies Level 3

Content: This NCEA Level Three course will continue developing student’s business skills by forming a company, managing start up and running a day-to-day business. Students will work with other students within the class to complete the Young Enterprise Scheme during class. This scheme requires students to create business plans, present to a Dragons Den and allows them to make and sell a product or service making a profit that the students can divide up amongst themselves. Students will also be provided with the opportunity to gain 15 achievement standard credits at Level Three enabling them to develop skills in business and entrepreneurship. This course will require and challenge students to manage their time effectively and maintain working relationships with friends.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91382	6	Develop a marketing plan for a new or existing product	Internal	UE Lit Rdg
AS 91384	9	Carry out with consultation, an innovative and sustainable business activity.	Internal	UE Lit Rdg

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: NO

What it leads to: Careers in Business, Entrepreneurship and Start Up Companies. This subject is a University Entrance accepted domain.

Course costs: \$35.00 YES registration fee

For further information, see: Mr Wales or Miss Matthews or email: mwa@fdmc.school.nz or bma@fdmc.school.nz

Business Studies Level 2

Content: This NCEA Level Two course will introduce students to forming a company, managing start up and running a day-to-day business. Students will work with other students within the class to complete the Young Enterprise Scheme during class. This scheme requires students to create business plans, present to a Dragons Den and allows them to make and sell a product or service making a profit that the students can divide up amongst themselves. Students will also be provided with the opportunity to gain 15 credits at Level Two enabling them to develop skills in business and entrepreneurship. This course will require and challenge students to manage their time effectively and maintain working relationships with friends.

Proposed Assessments

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90846	3	Conduct market research for a new or existing product	Internal	Lit 1
AS 90847	3	Investigate the application of motivation theory in a business	Internal	Lit 1
AS 90848	9	Carry out, review and refine a business activity within a community context with guidance	Internal	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: NO

Subject Guidance: Enthusiasm, good time-management and self- management skills are needed as well as the ability to work well within a group situation. Approval of the HOD Social Sciences.

What it leads to: Business Studies at Level 3, careers in Business, Entrepreneurship and Start Up Companies. This subject is a University Entrance accepted domain

Course Costs: \$35.00 YES registration fee

For further information, see: Mr Wales or Miss Matthews or email: mwa@fdmc.school.nz or bma@fdmc.school.nz

Chemistry Level 3

Content: 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.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91390	5	Demonstrate understanding of thermochemical principles and properties of particles and substances	External	Lit 1 Num
AS 91391	5	Demonstrate understanding of organic compounds	External	Lit 1
AS 91392	5	Demonstrate understanding of equilibrium principles	External	Lit 1 Num
AS 91393	3	Demonstrate understanding of oxidation and reduction processes	Internal	Lit 1

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: To be successful in this subject it is recommended that students have achieved the three externally assessed standards in Level 2 Chemistry. This is because the Level 3 course continues from where the Level 2 course leaves off, and assumes a good understanding of the Level 2 standards. Students are required to consult with the HOD Science before gaining entry to this subject.

What it leads to: Year 13 Chemistry is useful, and often essential, for students intending to follow careers in many fields including Chemistry, Medicine, Veterinary Science and Engineering.

Course Costs: The purchase of a student write-on workbook is required (approximately \$25)

For further information, see Mrs Colleen Severinsen, HOD Science or email: cse@fdmc.school.nz

Chemistry Level 2

Content:

Issues in Chemistry have never been more topical, and the course explores some of these issues, and their relevance to everyday lives. The course is an interesting mix of theoretical and practical work, and is an excellent introduction to Y13 Chemistry and to University Chemistry courses.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91164	4	Demonstrate understanding of bonding, structure, properties and energy changes	External	Lit 1
AS 91165	4	Demonstrate understanding of selected organic compounds	External	Lit 1
AS 91166	4	Demonstrate understanding of chemical reactivity	External	Lit 1
AS 91162	3	Carry out procedures to identify ions in solution	Internal	N/A
AS 91167	3	Demonstrate understanding of oxidation-reduction processes	Internal	N/A

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: To be successful in this subject it is recommended that students have achieved at least Merit in 91027 (Algebra). This is because the course is largely mathematical, and requires the ability to manipulate and solve algebraic equations. It is also recommended that students have achieved at least Merit in 90944 (Chemistry). This is because the Level 2 Chemistry course continues from where the Level 1 course leaves off, and assumes a good understanding of the Level 1 Chemistry standard. Students are required to consult with the HOD Science before gaining entry to this subject

What it leads to? Level 3 Chemistry. Leads to careers in medicine, engineering, marine studies, biochemistry

Course Costs: Purchase of write on work book \$25.00

For further information, see Mrs Colleen Severinsen, HOD Science or email: cse@fdmc.school.nz

Careers Pathway Programme (CPP) - Year 13

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 workplace life-skills, such as communication, self-management skills, workplace skills, 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, tourism, 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.

Work Exploration/Gateway is also an important component allowing 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. Alongside Gateway learning packages some students may undertake the distance learning options from Open Polytechnic, etc.

It is most important that students interested in the programme are able to demonstrate a commitment to the College and to the programme as there is a high degree of trust, co-operation, self-direction, reliability and autonomy required of the students. Student contracts and commitment to the programme will be reviewed throughout the year and if students do not uphold their contractual agreement their position in the programme will be terminated.

There is an \$100 charge for the programme to cover incidental costs.

There are no stationery requirements. Special clothing and safety footwear may be required for some positions. All students undertaking placements in industry will be expected to have steel capped boots.

Get a CPP Application Pack from the Careers Office. Enquiries to Ms Lauren O'Reilly lor@fdmc.school.nz

Digital Technologies Level 3

Content:

This course consists of 7 possible NCEA level three internal Achievement Standards. There is no external exam. The aim is to develop broad technological literacy to equip students in society as informed citizens and given them access to technology related careers.

On completing this course of study for NCEA DGT, students will have: developed a further understanding of: the use and operation of DGT, DGT principles and systems, the nature of technological practice, strategies for the communication, promotion and evaluation of technological ideas and outcomes

Produced technological solutions:

- Identified needs and opportunities to provide information for possible DGT practice
- With reference to these needs and opportunities:
 - Produced technological outcomes to agreed standards, managed time and resources
 - Presented and promoted ideas, strategies and outcomes through DGT practice
 - Evaluated design, strategy and outcomes

Proposed Assessments:

Standard	Credits	Description	Internal/External	Literacy & Numeracy
AS 91902 OR	4	Use complex techniques to develop a database (3.3) or	Internal	The Ministry is yet to confirm the Literacy and Numeracy status of these standards
AS 91903 OR	4	Use complex techniques to develop a digital media outcome (3.4) or		
AS 91907	6	Use complex processes to develop a digital technologies outcome (3.8)		
AS 91900	6	Conduct a critical inquiry to propose a digital technologies outcome (3.1)	Internal	
AS 91901	3	Apply user experience methodologies to develop a design for a digital technologies outcome (3.2)	Internal	
AS 91909 Or AS 91908	3	Present a reflective analysis of developing a digital outcome (3.10) Analyse an area of computer science (3.9)	External	

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Successful completion of Level Two Digital Technologies course (achieving all credits) and/or approval from the HoD.

Course costs: Nil

For further information, see: Mr Andy Evans HOD Technology or email: aev@fdmc.school.nz

Digital Technologies Level 2

Content:

This course consists of 6 possible NCEA level two internal Achievement Standards. There is no external exam. The aim is to develop broad technological literacy to equip students in society as informed citizens and given them access to technology related careers.

On completing this course of study for NCEA digital technologies, students will have developed an understanding of:

- the use and operation of digital technologies
- developed the skills to use a range of software to develop digital outcomes
- worked closely with stakeholders to develop and refine a digital outcome
- promotion and evaluation of technological ideas and outcomes
- Produced technological solutions through:
 - Identifying needs and opportunities
 - produced technological outcomes to agreed standards,
 - evaluated the development and design of digital outcomes,
 - managed time and resources; and
 - presented and promoted ideas, strategies and outcomes through digital technologies practice

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91368	6	Implement advanced procedures to produce a specified digital information outcome with dynamically linked data.	Internal	N/A
AS 91356	6	Develop a conceptual design for an outcome	Internal	N/A
AS 91354	4	Undertake brief development to address an issue	Internal	Lit 1
AS 91372	3	Construct a plan for an advanced computer program for a specified task	Internal	N/A
AS 91373	3	Construct an advanced computer program for a specified task	Internal	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Successful completion of Level One Digital Technologies course (achieving all credits) and/or approval from the HoD.

Course costs: Nil

For further information, see: Mr Andy Evans HOD Technology or email: aev@fdmc.school.nz

Digital Technologies Level 1

Content:

This course consists of 5 possible NCEA level one internal Achievement Standards. There is no external exam

Students will:

- Use practical and intellectual resources to develop products and systems that expand human possibilities by addressing needs and realising opportunities,
- Produce quality prototypes resulting from thinking and practices that are informed, critical and creative,
- Learn practical skills as they develop models, prototypes and systems including advanced programming, use of different digital media, planning, design, time management, problem solving.

Proposed Assessment – Achievement standards will be chosen from the list below.

Standard	Credits	Description	Internal/External	Literacy & Numeracy
AS 91877	3	Develop a proposal for a digital outcome	Internal	Lit 1
AS 91878	3	Develop a design for a digital outcome	Internal	Lit 1
AS 91879	4	Develop a digital outcome to manage data	Internal	Lit 1
AS 91883	4	Develop a computer program	Internal	N/A
AS 91884	6	Use basic iterative processes to develop a digital outcome	Internal	N/A
AS 91886	3	Demonstrate understanding of human computer interaction	External	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: NO

Subject Guidance: Successful completion including at least achieved grades from the Year 10 Digital Technologies (I.T.) option and/or HOD Approval

What it leads to: This is the first year of a two-year (currently) course of Digital Technologies. It is specifically for those intending on studying this at level two, those looking at tertiary study or a career in mechatronics, engineering, IT, technology and web design. It may well link into a proposed future level three course in Technology involving robotics and programming.

Course costs: Nil

For further information, see: Mr Andy Evans HOD Technology or email: aev@fdmc.school.nz

Economics Level 3

Content: This course examines different markets using models to explain behaviour of consumers, producers and government.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91399	4	Demonstrate understanding of the efficiency of market equilibrium	External	L1 Lit UE Rdg/Wrtng
AS 91401	5	Demonstrate understanding of micro-economic concepts	Internal	L1 Lit UE Lit Rdg
AS 91402	5	Demonstrate understanding of government interventions to correct market failures	Internal	L1 Lit UE Lit Rdg
AS 91400	4	Demonstrate understanding of the efficiency of different market structures using marginal analysis	External	L1 Lit UE Lit Rdg/Wrtng

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: None

What it Leads to: This course leads to a greater understanding of all business decisions, consumer decisions and government decisions. It examines why businesses, governments and people behave in a certain way, and their effects on the greater economy. Valuable at Year 13 as it is very similar to the first year course at university

Course costs: \$35 for workbook

For further information, see: Mr Mark Sewter or email: mse@fdmc.school.nz

Economics Level 2

Content: Level 2 Economics studies the contemporary issues in the economy that we see on the news every day.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91222	4	Analyse inflation using economic concepts and models	External	L1 Lit UE Lit Writing
AS 91223	4	Analyse international trade using economic concepts and models	External	L1 Lit UE Lit Writing
AS 91224	4	Analyse economic growth using economic concepts and models	External	L1 Lit UE Lit Writing
AS 91225	4	Analyse unemployment using economic concepts and models	Internal	L1 Lit
AS 91227	6	Analyse how government policy and contemporary economic issues interact	Internal	L1Lit UE Lit Rdg
AS 91403	6	Demonstrate understanding of macro-economic influences on the New Zealand economy	External	L1 UE Lit Rdg/Wrtng

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: None

Where does it Lead: Level 2 Economics examines all the issues we see and hear on the news that affects all aspects of our life. It helps make sense of the reasons the government brings about the policies it delivers. This is a great course to gain an understanding of contemporary economic issues in New Zealand. The Level 3 Macro-Economic exam is taken this year as an extension as the topics are taught.

Course costs: \$35 for student workbook

For further information, see: Mr Mark Sewter or email: mse@fdmc.school.nz

Economics Level 1

Content: A basic introductory course that builds from Supply and Demand to Markets and the wider Economy.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90983	4	Demonstrate understanding of consumer choices using scarcity and demand	External	L1 Lit
AS 90984	5	Demonstrate understanding of decisions a producer makes about production	Internal	L1 Lit
AS 90985	3	Demonstrate understanding of producer choices using supply	External	L1 Lit
AS 90986	5	Demonstrate understanding of how consumer, producer and/or government choices affect society, using market equilibrium	External	L1 Lit
AS 90988	3	Demonstrate understanding of the interdependence of sectors of the NZ economy	Internal	L1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: None

Where does it Lead: An introduction to the economy and the many things affecting price and quantity. We examine consumer's choices and producer's decisions as well as putting them together to create a market.

Course costs: \$35 for workbook

For further information, see: Mr Mark Sewter or email: mse@fdmc.school.nz

English Level 3

Content: This course is only available to those students who have completed a full Level 2 course in English. All standards assessed are Level 3. The course deals with literary studies chosen from the written, oral, visual and Shakespearian modes, and an appreciation of the mechanics of language.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91472	4	Respond critically to specified aspect/s of studied written text/s, supported by evidence	External	UE Lit Rdg/Wrtng
AS 91473	4	Respond critically to specified aspect/s of studied visual/oral text/s supported by evidence	External	UE Lit Wrtng
AS 91474	4	Respond critically to significant aspects of unfamiliar written texts through close reading, supported by evidence	External	UE Lit Rdg/Wrtng
AS 91475	6	Produce a selection of fluent and coherent writing which develops, sustains and structures ideas	Internal	UE Lit Wrtng
AS 91476	3	Create and deliver a fluent and coherent oral text which sustains and structures ideas	Internal	N/A
AS 91479	4	Develop an informed understanding of literature and/or language using critical texts	Internal	UE Lit Rdg

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance:

This is a 24 credit course that focuses on the critical analysis of literary texts. Entry into this course is determined by the student's Level 2 English results.

What it leads to: Tertiary studies and a wide range of professional vocations.

Course Costs: NIL

Further Information see: Mrs Sally O'Neill (HOD English) or email: son@fdmc.school.nz

English (Mainstream) Level 2

Content: This subject provides an explanation of literature via a range of different media.

There is an emphasis on writing in the transactional and creative modes. Students will also work on refining their research skills.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91098	4	Analyse specified aspect/s of studied written text/s, supported by evidence	External	UE Lit Rdg/Wrtng
AS 91099	4	Analyse specified aspect/s of studied visual or oral texts/s, supported by evidence	External	UE Lit Write
AS 91100	4	Analyse specified aspect/s of unfamiliar written text/s through close reading, supported by evidence	External	UE Lit Rdg/Wrtng
AS 91101	6	Produce a selection of crafted and controlled writing	Internal	UE Lit Write
AS 91102	3	Construct and deliver a crafted and controlled oral text	Internal	
AS 91105	4	Use information literacy to form conclusions	Internal	UE Lit Rdg

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Classes are determined according to NCEA L1 results. A range of possibilities exists.

Where it leads to: Level 3 English and Scholarship

Course Costs: NIL

Further Information see: Mrs Sally O'Neill (HOD English) or email: son@fdmc.school.nz

English (Alternative) Level 2

Content: The course is not designed for tertiary study but UE requirements are included for those students who desire it.

Proposed Assessment: Course designed to cater for the needs of the cohort and individual student.

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
US 3488	3	Write business correspondence for the workplace	Internal	N/A
US 2989	3	Select read and assess texts to gain knowledge	Internal	N/S
AS 91102	3	Construct and deliver a crafted and controlled oral text	Internal	N/A
AS 91105	4	Use information literacy skills to form developed conclusion(s)	Internal	UE Lit Rdg
AS 91107	3	Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence	Internal	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: NO

Where it leads to: Practical/vocational. Advantageous for Apprenticeship eligibility.

Course Costs: NIL

Further Information see: Mrs Sally O'Neill (HOD English) or email: son@fdmc.school.nz

English (Mainstream) Level 1

Content: This is an NCEA course where students have the opportunity to gain 29 Achievement Level 1 credits. The course covers Levels 5-6 reading, writing, listening and speaking skills.

Proposed Assessment:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90851	4	Show understanding of significant aspects of unfamiliar written text/s through close reading, using supporting evidence	External	L1 Lit
AS 90849	4	Show understanding of specified aspect(s) of studied written text(s), using supporting evidence	External	L1 Lit
AS 90850	4	Show understanding of specified aspect(s) of studied visual or oral text(s), using supporting evidence	External	L1 Lit
AS 90052	3	Produce creative writing	Internal	L1 Lit
AS 90053	3	Produce formal writing	Internal	L1 Lit
AS 90857	3	Construct and deliver an oral text	Internal	L1 Lit
AS 90852	4	Explain significant connections across texts	Internal	L1 Lit
AS 90854	4	Personal responses to independently read texts	Internal	L1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Demonstrated ability at Year 10 to cope with demands of NCEA English

Where this leads to: Further studies in English and Literature at Levels 2 and 3

Course Costs: NIL

Further Information see: Mrs Sally O'Neill (HOD English) or email: son@fdmc.school.nz

English (Alternative Course) Level 1

Proposed Assessment: Course designed subject to cater for the needs of cohort

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
US 10792	4	Write formal correspondence	Internal	N/A
US 3483	6	Fill in a form	Internal	N/A
US 3501	5	Demonstrate knowledge of and apply listening techniques	Internal	N/A
US 10790	4	Converse with others	Internal	N/A
AS 90856	3	Construct and deliver an oral text	Internal	Lit 1
US 1285	6	Make enquiries and complete practical transactions	Internal	N/A
US 3503	5	Participate and communicate in a team or group to complete a routine task	Internal	N/A
AS 90854	4	Form personal response to independently read texts	Internal	Lit 1
US 25060	2	Read texts for practical purposes	Internal	N/A
US 1273	7	Express ideas in writing an original story	Internal	N/A
AS 90855	3	Static Image – Creating a visual text	Internal	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2 provides 11 English credits

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: NO

Subject Guidance: Compulsory

What it leads to: Level 2 Unit St. English – Practical English, Communication focus

Course Costs: Nil

Further Information see: Mrs Sally O'Neill (HOD English) or email: son@fdmc.school.nz

Engineering Education 2 Employment (EE2E)

EE2E is for Year 13 students who are competent in physics and maths and who have an interest in engineering. The students will study one morning a week in Terms 1 - 3 to complete 1 of the 9 papers of the New Zealand Diploma in Engineering (NZDE). This also gains them 8 NCEA credits at Level 3. EE2E is timetabled as a subject one period per day. There is an external exam at the end of the year to complete the requirements for the NZDE paper.

Proposed Assessment:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
US 15856	2	Demonstrate knowledge of the New Zealand electricity supply system	Internal	N/A
AS 91625	3	Demonstrate understanding of a complex machine	Internal	N/A
AS 91625	3	Demonstrate understanding of a structural system	Internal	N/
		Engineering Fundamentals	External	N/A

Enquiries to: Ms Lauren O'Reilly or email: lor@fdmc.school.nz

Course Endorsement: NO

Education for Sustainability (EFS) Level 2 / 3

Content: This is an NCEA course where students will achieve up to 16 **Level 3 credits**. The course is **offered to Year 12 and 13 students**.

The Achievement Standards are taken from the Education for Sustainability curriculum. This course is a **flow on from Future Problem Solving** at Level 2 but is open to all students interested in future focussed sustainability issues in both the global and local context.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90828	6	Evaluate a personal action that contributes towards a sustainable future	Internal	Lit 1, UE Lit Rdg
AS 90832	5	Develop a strategy for an organisation that will contribute to a sustainable future	Internal	Lit 1, UE Lit Rdg
AS 90831	5	Analyse the impact that policies have on a sustainable future	External	Lit 1, UE Lit Rdg/ Wrtnng

Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Preference will be given to students who have been part of a Future Problem Solving or a Community Problem Solving team previously.

Enquiries to: Ms Robyn Wackrow or email: rwa@fdmc.school.nz or Mr Mark Wales mwal@fdmc.school.nz

Future Problem-Solving Level 1

Content: This is an NCEA course where students will achieve up to 15 Level 2 credits. The Level 2 course is offered to students as an extension programme in Year 11. The Achievement Standards are taken from the Senior Social Studies and Education for Sustainability curriculum. Another major component of this course is the Future Problem Solving competition that can lead to competing at an international level.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91282	5	Take action on a social issue.	Internal	Lit 1
AS 90810	6	Undertake a personal action, with reflection, that contributes to a sustainable future.	Internal	Lit 1, UE Lit Rdg
AS 90814	4	Demonstrate understanding of aspects of sustainability in different contexts.	External	Lit 1, UE Lit Rdg/Wrtng

Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Preference will be given to students who have been part of a Future Problem Solving or a Community Problem Solving team previously.

Information. The students will enter the NZ Future Problem Solving competition at the same time as completing the standards. The tasks required are transferable. In the competition, they may work in teams or individually.

What it leads to: **Entry in the FPS competition means sending reports/booklets throughout the year to be evaluated by experts in FPS. Top teams from around NZ are chosen to compete at National level. From the Nationals, the two top teams in each division are invited to attend the International Competition held in the USA the following June.** Teams apply the FPS problem solving process to authentic problems in their community or future. This action orientated, authentic learning encourages students to use knowledge meaningfully across disciplines and to become actively engaged in their learning. Recognised worldwide as a progressive educational system.

Many Maori values such as manaakitanga, kaitiakitanga, whanaungatanga play a key role in CmPS as do the values and Key Competencies from the New Zealand Curriculum.

Enquiries to: Ms Robyn Wackrow or email: RWA@fdmc.school.nz

GATEWAY YEAR 12 AND 13

Gateway opens a new 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 has a compulsory work experience component and students may be required to work hours that differ from the normal school day. Gateway is timetabled as a subject one period per day.

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.

Gateway is about:

- Building Links between school and industry
- Structured workplace learning
- For work ready and motivated students
- Requires a formalised arrangement with an employer
- Developing a learning plan that integrates with other school studies

Placement Examples

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 & Design

Retail

Road Transport

Sport & Recreation

Sports Turf Management

Telecommunications

Tourism

Entry Requirements

Students are selected via an application and interview process. Students who wish to be considered for Gateway as a Year 12 or 13 subject option must get a separate application form from the Careers Office.

Enquiries to: Ms Lauren O'Reilly or email: lor@fdmc.school.nz

Geography Level 3

Content: This course has a physical Geography component which studies the North Taranaki coastline and the interacting natural processes [suited for engineering, geology, surveying, natural sciences, land developers]. There is a human geography component, which investigates cultural processes - the economic geography of a major tourism city in NZ, Rotorua. This course also develops geographical skills and report writing based through the analysis of different geographical environments and global issues such as the global diamond trade and the humanitarian crisis associated with human trafficking

Proposed Assessment:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91427	4	Demonstrate understanding of how a cultural process shapes geographic environment(s)	External	L1 Lit, UE Lit Rdg/Wrtng
AS 91429	4	Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills	External	L1 Lit, UE Lit Rdg/Wrtng
AS 91430	5	Conduct geographic research with consultation	Internal	Num, L1 Lit
AS 91432	3	Analyse aspects of a geographic topic at a global scale	Internal	L1 Lit
AS 91431	3	Analyse aspects of a contemporary geographic issue	Internal	L1 Lit, UE Lit Rdg

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
 UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Level 2 Geography, passes in all internal and 2 external standards. Consultation with Mr Wales about entry, if level 2 Geography not covered.

What it leads to: Tertiary Level Geography / Geology/ Earth Sciences

An in-depth analysis of both the natural environment and human environment and how this is changing constantly. The skills and concepts learned through this course are ideal for a wide range of careers such as engineer, surveyor, planner, tourist operator, geologist and developer.

Course costs: Field trip to Rotorua 3 days approx. \$300.00

For further information, see: Mr Mark Wales or email: mwal@fdmc.school.nz

Geography Level 2

Content: This course studies the natural environment and the effects of people as they develop resources, build cities and change the landscape. There is a major focus on Auckland and students will learn how urban areas grow and change. Students will also examine the controversial issue of Freedom Camping in New Zealand and investigate how crime in Chicago, USA has contributed to the urban pattern found in this city. The physical geographic component of the course examines the South Island Hill Country and the interacting processes that formed and are modifying this incredible environment.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91244	5	Conduct geographic research with guidance	Internal	L1 Num L1 Lit
AS 91246	3	Explain aspects of a contemporary NZ geography issue	Internal	L1 Lit
AS 91241	3	Demonstrate geographic understanding of an urban pattern	Internal	L1 Lit
AS 91240	4	Demonstrate geographic understanding of a large natural environment	External	L1 Lit, UE Lit Rdg/Wrtng
AS 91243	4	Apply geography concepts and skills to demonstrate understanding of a given environment	External	L1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Passes in Level 1 externals or in comparable language or science based external exams.

What It Leads to: Level 3 Geography. Level Two Geography gives students a more global view of our ever-changing environment. The skills and concepts learned through this course are ideal for a wide range of careers such as builders, engineers, accountants, surveyors, urban planners and geologists.

Course Costs: 2 Day field trip to Auckland cost approx. \$200.00

For further information, see: Mr Mark Wales or email: mwal@fdmc.school.nz

Geography Level 1

Content: Geography is the study of how people interact with their environment. The externally assessed topics are extreme natural events which investigate earthquakes in New Zealand and geographic skills and concepts which are taught throughout the year and assessed in the external exam. The internally assessed topics cover a contemporary issue on coastal erosion in New Zealand and the different perspectives groups and individuals have about this. The global topic concentrates on the global pattern associated with the chocolate industry and the geographic research focuses on the changing environment (soil, vegetation, climate and relief) of Pouakai Range including a day trip tramp up the Pouakai Track.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91007	4	Demonstrate geographic understanding of environments that have been shaped by extreme natural event(s)	External	L1 Lit
AS 91010	4	Apply concepts and basic geographic skills to demonstrate understanding of a given environment	External	L1 Num
AS 91011	4	Conduct geographic research with direction	Internal	L1 Lit & Num
AS 91012	3	Describe aspects of a contemporary NZ geographic issue	Internal	L1 Lit
AS 91013	3	Describe aspects of a geographic topic at a global scale	Internal	L1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: None

What it leads to: Level 2 Geography. The study of the natural environment and the way people interact with the world gives a good introduction to Geography which benefits students embarking on studies aimed at a wide variety of careers from builders to farmers, engineers to accountants, surveyors to historians.

Course Costs: \$20.00 - Field Trip - Puke Ariki and Pouakai Crossing

For further information, see: Mr Mark Wales or email: mwal@fdmc.school.nz

History Level 3

Content: The course is interesting and 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 key theme at this level is how social trends and movements are the product of social, economic and political pressures. The 3 main study topics are: the Land Wars of 1860's and what took place in South Taranaki, the temperance and prohibition movement in the UK, USA and NZ and the causes and consequences of the Cuban Missile Crisis

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91434	5	Research an historical event or place of significance to New Zealanders , using primary and secondary sources	Internal	UE Lit Rdg
AS 91435	5	Analyse an historical event, or place of significance to New Zealanders	Internal	UE Lit Rdg
AS 91436	4	Analyse evidence relating to an historical event of significance to New Zealanders	External	UE Lit Rdg/Wrtng
AS 91437	5	Analyse different perspectives of a contested event of significance to New Zealanders	Internal	UE Rdg
AS 91438	6	Analyse the causes and consequences of a significant historical event	External	UE Lit Rdg /Wrtng

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: You can take Level 3 History without having taken history before. It will require the ability to communicate well in written work.

What does this lead to: History at this level is focussed on the sorts of skills and ideas that are relevant in a wide range of jobs and disciplines that require people to research, evaluate and analyse effectively. There is emphasis placed on researching and using primary resources to help better understand historical events. The topics covered are negotiated with students at the beginning of the course which ensures students are as engaged as possible.

Course Costs: None

Further information from: Mr Martin Dravitzki (mdr@fdmc.school.nz) or see the website at www.fdmchistory.weebly.com

History Level 2

Content: At this level we develop skills to answer questions such as: How have Tragedies' impacted on NZ society ? How and why did the Russian Revolution take place? How did the influenza epidemic of 1918 impact on NZ? What took place in the Vietnam War and how did it impact on NZ? Students will earn valuable NCEA credits and gain research skills vital for studying other disciplines.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91229	4	Carry out an enquiry into an historical event or place that is of significance to New Zealanders	Internal	UE Lit Rdg
AS 91230	5	Examine an historical event or place that is of significance to New Zealanders	Internal	UE Lit Rdg
AS 91231	4	Examine sources of an historical event that is of significance to New Zealanders	External	UE Lit Rdg/Wrtng
AS 91232	5	Interpret different perspectives of people in an historical event that is of significance to New Zealanders	Internal	UE Rdg
AS 91234	5	Examine how a significant historical event affected New Zealand society	External	UE Lit Rdg/Wrtng

Num = standard counts towards numeracy credits
Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Open entry but students will usually need to have achieved at least 12 credits in Level 1 History or the equivalent in English if they are to be successful in this subject

What does this lead to: This is a logical link between the Level 1 and 3 courses and helps students develop a broader understanding of the modern world and the ways it has been shaped by past events. Students will be expected to develop strong presentation skills, which will involve written, oral and multi-media assignments. This subject places a strong emphasis on developing research skills and the ability to question sources and resources.

Course Costs: None

Further information from: Mr Martin Dravitzki (mdr@fdmc.school.nz) or see the website www.fdmchistory.weebly.com

History Level 1

Content

At this level, we look to provide students with a grounding in how historians see the past and how they go about researching and using historical sources. A key theme is developing personal histories which is then reflected in the main study topics which are: Key migrations in NZ, the events that led to the outbreak of World War I, Gallipoli and its impact on NZ and the causes and consequences of the American Civil War.

Proposed Assessments

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91001	4	Carry out an investigation of an historical event, or place, of significance to New Zealanders	Internal	Lit 1
AS 91002	4	Demonstrate understanding of an historical event, or place, of significance to New Zealanders	Internal	Lit 1
AS 91003	4	Interpret sources of an historical event of significance to New Zealanders	External	Lit 1
AS 91004	4	Demonstrate understanding of different perspectives of people in an historical event of significance to New Zealanders	Internal	Lit 1
AS 91005	4	Describe the causes and consequences of an historical event	External	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Open to all Year 11 students who are able to write coherent English.

What does this lead to: The skills and ideas developed in this course translate to a wide range of other subjects and jobs. Key examples are the ability to gather and evaluate primary and secondary research sources and the techniques used to produce formal written reports and digital documents. There is also a growing demand for people with archivist skills as more organisations and companies look to tell their own stories.

Course Costs: None

Further information from: Mr Martin Dravitzki (mdr@fdmc.school.nz) or see the website www.fdmchistory.weebly.com

Home Economics / Health Level 2

Content: During this course, 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 complete both practical cooking and also written aspects of health. Students will look at processes associated with selecting, preparing, cooking and serving food, allowing them to develop their creativity and sense of accomplishment.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91237	5	Take action to enhance an aspect of people's well-being within the school or wider community	Internal	Lit 1
AS 91239 <i>optional</i>	5	Analyse issues related to sexuality and gender to develop strategies for addressing the issues.	Internal	Lit 1
AS 91301	5	Analyse beliefs, attitudes and practices related to a nutritional issue for families in New Zealand	Internal	Lit 1
AS 91299	5	Analyse issues related to the provision of food for people with specific food needs	Internal	Lit 1
US 13281	2	Prepare and present basic sandwiches for service	Internal	N/A
US 13272	2	Cook foods by Baking	Internal	N/A
US 17285	4	Demonstrate knowledge of commercial espresso coffee equipment and prepare espresso beverages under supervision	Internal	N/A

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Open to all Year 12 students who are able to write coherent English.

What does this lead to: In Home Economics and Health, students will develop an understanding of the factors that influence the well-being of individual and families within the home and community, and actions people take to enhance and sustain those environments. These subjects provide vocational and learning pathways for future nutritionists, dietitians, policy advisers, medical professionals, early childhood educators, home economics teachers, university lecturers, food technologists, food writers, food stylists, health practitioners, researchers, food product developers, chefs, hotel management, and sports nutritionists.

Course Costs: TBC

For further information, see: Mrs Lana Rowland lro@fdmc.school.nz

Home Economics / Health Level 1

Content: This course covers a range of issues present in society. It focuses on Hauora (sense of well-being) and will complement student's other areas of study at Level 1. Students will explore and learn the practical aspects of cooking and will draw on knowledge gained through Year 9 and 10 Health and Food, and covering the following:

- Food and eating patterns that reflect health-enhancing attitudes towards nutrition.
- Nutritional requirements of various groups in society
- Safe food handling practices and strategies in the preparation and storage of food.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90958	5	Demonstrate understanding of how cultural practices influence eating patterns in New Zealand	Internal	Lit 1
AS 90956	5	Demonstrate knowledge of an individual's nutritional needs	Internal	N/A
AS 91097	4	Demonstrate understanding of ways in which well-being can change and strategies to support well-being	Internal	Lit 1
AS 90971	3	Take action to enhance as aspect of personal well-being	Internal	Lit 1
US 15901	3	Prepare and present fruit and vegetables in the hospitality industry	Internal	N/A
US 15919	2	Prepare and present hot finger food in the hospitality industry	Internal	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Open to all Year 11 students who are able to write coherent English.

What does this lead to: In Home Economics and Health, students will develop an understanding of the factors that influence the well-being of individual and families within the home and community, and actions people take to enhance and sustain those environments. These subjects provide vocational and learning pathways for future nutritionists, dietitians, policy advisers, medical professionals, early childhood educators, home economics teachers, university lecturers, food technologists, food writers, food stylists, health practitioners, researchers, food product developers, chefs, hotel management, and sports nutritionists.

Course Costs: TBC

For further information, see: Mrs Lana Rowland lro@fdmc.school.nz

Maori – Te Reo Level 3

Content: This course builds on vocabulary and sentence structures from Level 2. The key language skills (Panui, Korero, Tuhituhi and whakaarongo) are further developed. Topics covered in this course include: Nga Poropita, Nga waiata o nga Tipuna and tikanga o te marae.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91651	6	Korero kia whakamahi i te reo Maori o te ao whanui	Internal	Lit 1
AS 91652	6	Panui kia mohio ki te reo Maori o te ao whanui	External	Lit 1 UE Lit Rdg
AS 91653	4	Tuhi i te reo Maori o te ao whanui	External	Lit 1 UE Lit Write

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Level 2 NCEA Te Reo Maori

What does this lead to: Further study at University, a career in Teaching, Social Work, Community Development Work

Course Costs: None

For further information, see: Mr Taare Ruakere or email: tru@fdmc.school.nz

Maori – Te Reo Level 2

Content: This course builds on vocabulary and sentence structures from level 1. The key language skills (Panui, Korero, Tuhituhi and whakarongo) are further developed. Topics covered in this course include: Tangata rongonui, Nga waiata o nga Tipuna, oku wawata mo nga ra kei te heke mai and Marae protocols. The focus for level two remains to further develop the student’s capabilities in both written and spoken Maori.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91284	6	Whakarongo kia mohio ea o reo o ea o torotoro	Internal	Lit 1
AS 91285	4	Korero kia whakamahi I te reo o ea o torotoro	Internal	Lit 1
AS 91286	6	Panui Ki te Reo o tea o torotoro	External	Lit 1
AS 91287	6	Tuhi I te Reo o tea o torotoro	External	UE Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Level 1 NCEA Te Reo Maori.

What does this lead to: Level Three Maori – Te Reo, Kaiako/Teacher, Social work, Radio/media, policy analyst

Course Costs: None

Further information, see: Mr Taare Ruakere or email: tru@gdmc.school.nz

Maori Te Reo Level 1

Content: This course builds on vocabulary and structures from previous years. The four key language skills such as Panui, Korero, Tuhituhi and whakarongo are further developed. Topics covered during the course include: whanau, Sports, Nga Tikanga o te Marae. There is an emphasis on gaining real life experience in using the language by participating in Te Reo o Taranaki initiatives. Excellence in written and spoken Te Reo Māori is the primary focus for Level One. This will be achieved through independent study, commitment and self-determination and focus. The language is also taught alongside the teachings of traditional protocols and customs such as Karakia and waiata etc

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91086	6	Korero kia whakamahi i te reo o tona ao	Internal	Lit 1
AS 91085	6	Whakarongo kia mohio kit e reo o tona ao	Internal	Lit 1
AS 91087	6	Panui kia mohio kit e reo o tona ao	External	Lit 1
AS 91088	6	Tuhi i te reo o tona ao	External	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

What does this lead to: This leads to Level 2 Maori Te Reo, Kaiako Te Reo, Social Work

Course Costs: None

Further information, see: Mr Taare Ruakere or email: tru@gdmc.school.nz

Mathematics with Calculus Level 3

Content: A course in Senior Mathematics which will equip students for university study in mathematics. It includes the requirements of Auckland University for admission to engineering. Major topics are calculus, conic sections, trigonometry and complex numbers. This course can be taken in conjunction with Level 3 Mathematics with Statistics.

Proposed Assessments

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91577	5	Apply the algebra of complex numbers in solving problems	External	Num
AS 91575	3	Apply trigonometric methods in solving problems	Internal	Num
AS 91573	3	Apply the Geometry of conic sections in solving problems	Internal	Num
AS 91578	6	Apply differentiation methods in solving problems	External	Num
AS 91579	6	Apply integration methods in solving problems	External	Num

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Successful completion of Level 2 Mathematics including 91261 Algebraic Methods and 91262 Calculus Methods or approval by the HOD

Where it leads to: Students will usually continue on to study mathematics at University, e.g. in Engineering, Surveying/Applied Sciences

Course Costs Graphing Calculator (about \$110) and required Homework books (about \$30)

For further information, see Mr Shintaro Kirkcaldie or email ski@fdmc.school.nz

Mathematics with Statistics Level 3

Content: A course in statistics and probability which will cover a lot of first year university statistics as well as equipping students to understand and use data. Major topics are investigating data and probability. This course can be taken in conjunction with Level 3 Mathematics with Calculus but not Level 3 Mathematics Applications.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91580	4	Investigate time series data	Internal	Num L1 Lit
AS 91581	4	Investigate bivariate measurement data	Internal	Num L1 Lit
AS 91584	4	Evaluate statistically based reports	External	Num L1 Lit UE Lit Write
AS 91585	4	Apply probability concepts in solving problems	External	Num
AS 91586	4	Apply probability distributions in solving problems	External	Num

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Successful completion of Level 2 Mathematics or Mathematics Applications (and Statistics) including 91267 Probability Methods or approval by the HOD

Where it leads to: Students will usually continue on to study mathematics/statistics at University.

Course Costs

Graphing Calculator (about \$110) and required Homework books (about \$30)

For further information, see Mr Shintaro Kirkcaldie or email ski@fdmc.school.nz

Mathematics Applications (and Statistics) Level 3

Content: A course in applied mathematics and statistics which will cover a range of mathematical skills as well as equipping students to understand and use data. The course cannot be taken in conjunction with any other Level 3 Mathematics course.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91587	3	Apply systems of simultaneous equations in solving problems	Internal	Num
AS 91574	3	Apply linear programming methods in solving problems	Internal	Num
AS 91576	2	Use critical path analysis in solving problems	Internal	Num
AS 91580	4	Investigate time series data	Internal	Num L1 Lit
AS 91581	4	Investigate bivariate measurement data	Internal	Num L1 Lit
AS 91584	4	Evaluate statistically based reports	External	Num L1 Lit UE Lit Write

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Successful completion of Level 2 Mathematics or Mathematics Applications (and Statistics) or approval by the HOD

Where it leads to: A general course of practical applications of mathematics that is applicable to some university courses and trades.

Course Costs

Graphing Calculator (about \$110) and required Homework books (about \$30)

For further information, see Mr Shintaro Kirkcaldie or email ski@fdmc.school.nz

Mathematics Level 2

Content:

An introduction to Senior Mathematics. Requires a high level of skill and interest. Suited to mathematics students confident in algebra and graphing. Leads to Level 3 Mathematics with Calculus and Mathematics Applications (and Statistics).

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91261	4	Apply algebraic methods in solving Problems	External	Num
AS 91262	5	Apply calculus methods in solving problems	External	Num
AS 91267	4	Apply probability methods in solving problems	External	Num
AS 91259	3	Apply trigonometric relationships in solving problems	Internal	Num
AS 91257	4	Apply graphical methods in solving problems	Internal	Num

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Successful completion of Level 1 Mathematics including Merit in 91027 Algebraic Methods and at least Achieved in 91028 Tables, Equations, Graphs or approval by the HOD

What it leads to: Generally, will lead to studying any of the Year 13 Mathematics courses.

Course Costs

Graphing Calculator (about \$110) and required Homework books (about \$30)

For further information, see Mr Shintaro Kirkcaldie or email ski@fdmc.school.nz

Mathematics Applications (and Statistics) Level 2

Content: An introduction to practical statistical work and probability theory as well as some applied mathematics. Suitable for mathematics students who are strong in working with data and probability.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91267	4	Apply probability methods in solving problems	External	Num
AS 91259	3	Apply trigonometric relationships in solving problems	Internal	Num
AS 91260	2	Apply network methods in solving problems	Internal	Num
AS 91265	3	Conduct an experiment to investigate a situation using statistical methods	Internal	Num L1 Lit
AS 91264	4	Use statistical methods to make an inference	Internal	Num L1 Lit
AS 91268	2	Investigate a situation involving elements of chance using a simulation	Internal	Num L1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Some success with Level 1 Mathematics including 91032 Right Angle Triangles and 91037 Chance and Data (11MATH) or 91035 Multivariate Data and 91036 Bivariate Data (11MXAPP), or approval by the HOD

Where it leads to: This course will lead to studying Level 3 Mathematics Applications (and Statistics) or Level 3 Mathematics with Statistics ONLY. A good level of success is expected in the probability external (91267) and the statistics internals (91264 and 91265) in order to progress to Level 3 Mathematics with Statistics.

Course Costs: Graphing Calculator (about \$110) and required Homework books (about \$30)

For further information, see Mr Shintaro Kirkcaldie or email ski@fdmc.school.nz

Mathematics Level 1

Content: The entry level for NCEA. Work done in Year 9 and 10 is extended. Students have to get 10 Numeracy credits in order to be eligible for a NCEA Level One qualification.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91026	4	Apply numeric reasoning in solving problems	Internal	Num
AS 91029	3	Apply linear algebra in solving problems (note - this standard is completed in Year 10)	Internal	Num
AS 91032	3	Apply right-angled triangles in solving measurement problems	Internal	Num
AS 91027	4	Apply algebraic procedures in solving problems	External	Num
AS 91028	4	Investigate relationships between tables, equations and graphs	External	Num
AS 91037	4	Demonstrate understanding of chance and data	External	Num

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Completed Year 10 Mathematics

Note: most boys will have gained 3 credits for Linear Algebra in Year 10. It is possible that extra standards may be offered if practicable. Many students will gain numeracy credits from other subjects as well as from Mathematics.

What it leads to: A good level of success in the algebraic standards (91027, 91028) leads to Level 2 Mathematics, or success in at least the Right Angle Triangles and Chance and Data standards (91032 and 91037) leads to Level 2 Mathematics Applications (with Statistics).

Course Costs

Scientific Calculator (about \$20) and Education Perfect subscription (\$20)

Note, a Graphics calculator is recommended but not compulsory.

For further information, see Mr Shintaro Kirkcaldie or email ski@fdmc.school.nz

Mathematics Applications Level 1

Content: This is an entry level course that is all internally assessed (with an optional external standard). It is for students who are better suited to practical mathematics.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91026	4	Apply numeric reasoning in solving problems	Internal	Num
AS 91029	3	Apply linear algebra in solving problems (note - this standard is completed in Year 10)	Internal	Num
AS 91032	3	Apply right-angled triangles in solving measurement problems	Internal	Num
AS 91036	3	Investigate bivariate numerical data using the statistical enquiry cycle	Internal	Num
AS 91035	4	Investigate a given multivariate data set using the statistical enquiry cycle	Internal	Num
AS 91030	3	Apply measurement in solving problems	Internal	Num

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: NO

Subject Guidance: Year 10 Mathematics. Students enter this class by request or on the advice of the HOD

Note: Some students will have gained 3 credits for 91029 Linear Algebra in Year 10. Up to 21 Level 1 credits. It is possible that extra standards may be offered if practicable. Many boys will gain numeracy credits from other subjects as well as from Mathematics.

Where it leads to: This course will lead to studying Level 2 Mathematics Applications (with Statistics) ONLY. A good level of success is expected in the trigonometry standard (91032) and the statistics standards (91036 and 91035) in order to progress.

Course Costs Scientific Calculator (about \$20) and required Homework books (about \$30)

For further information, see Mr Shintaro Kirkcaldie or email ski@fdmc.school.nz

Media Design Level 3

Content: The course covers the following topics; the meaning of media text through different readings, representation in New Zealand, understanding of a media industry, the relationship between a genre and society. In production, it includes the planning and development of a documentary short film and the production of a documentary.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91492	3	Demonstrate understanding of the media representation of an aspect of New Zealand culture or society	Internal	Lit 1
9AS 1491	3	Demonstrate understanding of the meaning of a media text through different readings	Internal	Lit 1
9AS 1494	4	Produce a design for a media product that meets the requirements of a brief	Internal	Lit 1
AS 91495	6	Produce a media product to meet the requirements of a brief	Internal	Lit 1
AS 91490	4	Demonstrate understanding of a specific media industry	External	UE Lit Rdg/Wrtng
AS 91493	4	Explain the relationship between a media genre and society	External	UE Lit Rdg/Wrtng

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: A good level of written English is required. Completion of Level 2 Media Studies or passing Level 2 English Visual Text

What it leads to: Studies in Political Science, Journalism, Public Relations, Communications, Broadcasting

Course costs: USB drive, scrapbook
Own camera useful but not essential.

For further information, see: Mrs Pascale Joines or email: pjo@fdmc.school.nz

Media Design Level 2

Content: The course covers; Understanding how stories are told in film, representation and stereotypes, planning and development of a drama short film, production of a short film. The external exams look at how the media producers work with their audiences and/or changes with a media genre over time

Proposed Assessment:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91249	4	Demonstrate understanding of narrative in media texts	Internal	Lit 1
AS 91250	3	Demonstrate understanding of representation in the media	Internal	Lit 1
AS 91252	4	Produce a design and plan for a media product using a range of conventions	Internal	Lit 1
AS 91253	6	Complete a developed media product from a design and plan using a range of conventions	Internal	Lit 1
AS 91248	3	Demonstrate understanding of the relationship between a media product and its audience	External	UE Lit Rdg/Wrtng
AS 91251	4	Demonstrate understanding of an aspect of a media genre	External	UE Lit Rdg/Wrtng
AS 91255 (alternate)	3	Write developed media text for a specific target audience	Internal	UE Lit Write

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: A good level of English is required. Completion of Level 1 Media Studies or passing Level 1 English Visual Text

What it leads to: Studies in Political Science, Journalism, Public Relations, Communications, Broadcasting

Course costs: USB drive, Scrapbook, SD Card. Own camera useful but not essential.

For further information, see: Mrs Pascale Joines or email: pjo@fdmc.school.nz

Media Design Level 1

Content: This course will cover; Individual interaction with media, elements of film language, planning and development of a music video, production of a music video
The external exams will look at how the media covers a news event and/or understanding a media genre

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90989	3	Demonstrate understanding of how individuals interact with the media	Internal	Lit 1 Num 1
AS 90990	3	Demonstrate understanding of selected elements of media text(s)	Internal	Lit 1
AS 90993	3	Produce a design and plan for a media product using a specified range of conventions	Internal	N/A
AS 90994	6	Complete a media product from a design and plan using a specified range of conventions	Internal	N/A
AS 90991	4	Demonstrate understanding of the media coverage of a current issue or event	External	Lit 1
AS 90992	4	Demonstrate understanding of characteristics of a media genre	External	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Nil

A good level of written English is required – this subject is not suitable for students who are doing L1 English (internal)
Year 10 Media Studies offers a taste of a range of skills required in the subject.

What it leads to: Studies in Political Science, Journalism, Public Relations, Communications, Broadcasting

Course costs: USB drive, Scrapbook, 2 or 3 notebooks

For further information, see: Mrs Pascale Joines or email: pjo@fdmc.school.nz

Music - Sound Arts Level 2

Content: This course builds on the NCEA Level 1 course and further develops the performance, composition, musical knowledge, aural analysis and score reading skills that were introduced at Level One. It offers students two fields- Making Music and Music Studies. Students will plan their programme of study in discussion with their teacher to reflect their strengths and interests. It is expected that students will be having private practical lessons on their instrument of choice and will also be prepared to study for, and sit ABRSM Theory examinations to help equip them for current and future studies. Students are expected to be involved in the musical life of the College by being members of the Concert Band, Jazz Group, Chamber Music ensembles and/or Rockquest groups.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91270	6	Perform two substantial pieces of music as a featured soloist	Internal	N/A
AS 91271	6	Compose two substantial pieces of music	Internal	N/A
AS 91274	3	Perform a substantial piece of music as a featured soloist on a second instrument.	Internal	N/A
AS 91275	4	Demonstrate aural understanding through written representation	External	N/A
AS 91276	4	Demonstrate knowledge of conventions in a range of music scores	External	Lit 1

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Year 11 Option Music or be in the 4th year or more of Instrument lessons. Approval of TIC Music

What it leads to: Music – Sound Arts in Year 13- NCEA Level 3 (via Te Kura – The Correspondence School) and beyond

Course costs: \$50.00 (Photocopying, CD's, DVD's, strings/ leads etc. (ABRSM Registration Fees are **not** included in this fee). There will be some additional costs associated with the Chamber Music Competitions, Taranaki Schools' Orchestra Day, Waikato Band Festival and any other competitions the students attend.

For further information, see: Mr Tobias Wright or email: twr@fdmc.school.nz

Music - Sound Arts Level 1

Content:

This full year NCEA course includes performance, composition, musical knowledge, aural analysis and score reading skills. Students will be required to show a range of practical and theoretical musical skills and knowledge. This will include solo and group performances, composition and it is expected that students will be having practical lessons on their instrument of choice and will also be prepared to study for, and sit ABRSM Theory examinations to help equip them for current and future studies.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91090	6	Perform 2 pieces of music as a featured soloist	Internal	N/A
AS 91091	4	Demonstrate ensemble skills through performing a piece of music as a member of a group	Internal	N/A
AS 91092	6	Compose 2 original pieces of music	Internal	N/A
AS 91093	4	Demonstrate aural and theoretical skills through transcription	External	N/A
AS 91094	4	Demonstrate knowledge of conventions used in music scores	External	N/A

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Year 10 Option Music or approval of TIC Music

What does this lead to: Music – Sound Arts in Year 12 / NCEA Level 2 and beyond

Course costs: \$45.00 (Photocopying, CD's, DVD's, strings/ leads etc.

(ABRSM Registration/ Examination Fees are **not** included in this fee).

There will be some additional costs associated with the Chamber Music Competitions, Taranaki Schools' Orchestra Day, Waikato Band Festival and any other competitions the students attend.

For further information, see: Mr Tobias Wright or email: twr@fdmc.school.nz

Outdoor Education Level 2

Content: This is an NCEA course where students can achieve up to 22 Level 2 credits. Most assessments are Unit Standards. The course covers a wide range of outdoor skills such as camping, tramping, rock climbing, abseiling and includes a week-long camp at TOPEC.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
US 426	3	Demonstrate camping skills	Internal	N/A
US 425	3	Demonstrate tramping skills	Internal	N/A
US 473	3	Demonstrate social and personal development in using High Rope activities	Internal	N/A
US 467	3	Demonstrate social and personal development in using Adventure Based Learning	Internal	N/A
US 431	3	Navigate in good visibility on land	Internal	N/A
AS 91330	4	Perform a physical activity in an applied setting. (Rock Climbing)	Internal	N/A
AS 91333	3	Analyse the application of risk management strategies to a challenging outdoor activity.	Internal	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: NO

Subject Guidance: HOD Approval

What it leads to:

Students have the opportunity to develop skills and an appreciation of the great outdoors.

Course Costs: Approximately \$350.00 (TOPEC and Day Trips)

For Further Information, see: Mr Matt Lash or email: mla@fdmc.school.nz

Physical Education Studies Level 3

Content: This is an NCEA course where students can achieve up to 20 Level 3 credits. The course covers a wide range of topics and builds upon the foundation from Level 1 and 2 Physical Education studies. Students will analyse a physical skill in a sport such as Badminton or Golf, train for an activity like a Triathlon, examine issues around risk management in activities like skiing and tramping in a trip to Mt Ruapehu.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91498	4	Evaluate physical activity experiences to devise strategies for lifelong wellbeing	Internal	Num L1 Lit
AS 91499	3	Analyse a physical skill performed by self or others	Internal	L1 Lit
AS 91500	4	Evaluate the effectiveness of a performance improvement programme	Internal	Num L1 Lit
AS 91501	4	Demonstrate quality performance of a physical activity in an applied setting	Internal	Num
AS 91504	3	Analyse issues in safety management for outdoor activity to devise safety management strategies	Internal	L1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: NO

Subject Guidance: HOD Approval

What it 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.

Course Costs: \$300 for Risk Management Trip involving skiing and other outdoor activities.

For Further Information, see: Mr Matt Lash or email: mla@fdmc.school.nz

Physical Education Studies Level 2

Content:

This is an NCEA course where students can gain up to 20 Level 2 credits. The course covers a range of topics and builds upon the foundation gained in Level 1 PE. Areas of development include

- Fitness programme planning
- Principles and methods of training
- Skill learning processes
- The analysis of risk, using TOPEC outdoor activities as a context.
- Leadership skills with our Year 8 students

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91328	5	Demonstrate understanding of how and why biophysical principles relate to the learning of physical skills.	Internal	Lit 1
AS 91329	4	Demonstrate understanding of the application of biophysical principles to training for physical activity.	Internal	Lit 1
AS 91330	4	Perform a physical activity in an applied setting.	Internal	N/A
AS 91332	4	Evaluate leadership strategies that contribute to the effective functioning of a group.	Internal	Lit 1
AS 91333	3	Analyse the application of risk management strategies to a challenging outdoor activity.	Internal	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Level One Physical Education

What it leads to: Students can build on their base knowledge and take these skills into Level 3 Physical Education. Valuable leadership skills can be developed as well as the ability to design and implement physical training programmes and the best ways to improve in team and individual sports.

Course costs: \$250 for week long TOPEC camp in Term 3

For further information, see: Mr Matt Lash or email mla@fdmc.school.nz

Physical Education Studies Level 1

Content: This is an NCEA course where students will achieve up to 20 Level 1 credits. The course covers a wide range of topics, which will be useful whether the student is planning to move into Level 2 or just to gain some useful knowledge and skills in terms of personal wellbeing and fitness. Some of the topics include:

- Biomechanics, Anatomy and Physiology
- Methods and principles of training
- Participation in physical activities
- Developing interpersonal and leadership skills

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90962	5	Participate actively in a variety of physical activities and explain factors that influence own performances	Internal	N/A
AS 90963	5	Demonstrate understanding of the function of the body as it relates to the performance of physical activity	Internal	Lit 1
AS 90964	3	Demonstrate quality movement in the performance of a physical activity.	Internal	N/A
AS 90966	4	Demonstrate interpersonal skills in a group and explain how these skills impact on others.	Internal	Lit 1
AS 90967	3	Demonstrate strategies to improve the performance of a physical activity and describe the outcomes.	Internal	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: NO

Subject Guidance: HOD Approval

What it leads to: Students have the potential to gain a foundation understanding of Physical Education to take onto Level 2. Students have the opportunity to develop those characteristics that will benefit them in team and individual sports.

Course Cost: \$150 for class field trip to investigate high level sport performance.

For further information, see: Mr Matt Lash or email: mla@fdmc.school.nz

Physics Level 3

Content: This course builds on knowledge gained in Physics Level 2 and involves an interesting mix of theoretical and practical work. Students will find the course work interesting, varied and challenging. Physics Level 3 continues to explore concepts within everyday life contexts, including motion, sound and electricity.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91521	4	Carry out a practical investigation to test a Physics theory relating 2 variables in a non-linear relationship	Internal	L1 Lit
AS 91523	4	Demonstrate understanding of wave system	External	L1 Lit
AS 91524	6	Demonstrate understanding of mechanical systems	External	L1 Lit
AS 91526	6	Demonstrate understanding of electrical systems	External	L1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: To be successful in this subject, it is recommended that students achieve at least two of the externally assessed Physics standards, namely 91171 (Level 2 Mechanics) and 91173 (Level 2 Electricity). This is because the Level 3 course continues from where the Level 2 course leaves off, and assumes a good understanding of these Level 2 standards. Students are required to consult with the Teacher in Charge before gaining entry to this subject.

What it leads to: To gain entry into Engineering at Auckland or Canterbury Universities, Level 3 Physics is a required subject. Many other subjects, including surveying, medicine, physiotherapy, aviation, radiology and architecture, name physics as a recommended subject.

Course costs: Students will be required to purchase a workbook (approximately \$27)

For further information, see: Mr Charl van der Heever or email CVA@fdmc.school.nz

Physics Level 2

Content: This course provides a demanding and interesting introduction to physics. A good mathematical ability and a commitment to work well are required. The secret to success in the course is the preparedness to practise problem solving. Theory work is backed up with practical work and the course provides a sound foundation for L3 Physics.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91168	4	Carry out a practical investigation that leads to a non-linear mathematical relationship	Internal	Num L1 Lit
AS 91170	4	Demonstrate understanding of waves	External	Num L1 Lit
AS 91171	6	Demonstrate understanding of mechanics	External	Num L1 Lit
AS 91173	6	Demonstrate understanding of electricity and electromagnetism	External	L1 Lit Num

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: To be successful in this subject it is recommended that students have achieved 91027 (Algebra). This is because the course is largely mathematical, and requires the ability to manipulate and solve algebraic equations. It is also highly recommended that students have achieved 90940 (Level 1 Mechanics). This is because the Level 2 Physics course continues from where the Level 1 Mechanics course leaves off, and assumes a good understanding of the Level 1 Mechanics standard. Students are required to consult with the HOD Science before gaining entry to this subject

What it leads to: To jobs as electricians, instrument technicians, audiometrist, security technician, auto electrician, lighting technician etc

Course costs: Students will be required to purchase a workbook (approximately \$26)

For further information, see: Mr Charl van der Heever or email CVA@fdmc.school.nz

Product Design / Technology Level 3

Content: This course consists of a selection of NCEA Level Three Achievement Standards drawn from both the Technology and DVC disciplines.

The 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. 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 provides a 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 22 Credits.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91630	6	Resolve a product design through graphics practice	Internal	N/A
AS 91608	4	Undertake brief development to address an issue within a determined context	Internal	Lit 1
AS 91610	6	Develop a conceptual design considering fitness for purpose in the broadest sense	Internal	Lit 1
AS 91611 optional	6	Develop a prototype considering fitness for purpose in the broadest sense	Internal	Lit 1
AS 91627 optional	4	Initiate design ideas through exploration	External	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: This course follows on the Level Two course.

What it leads to: The course further develops skills for those students who intend to go on to tertiary study in architecture, engineering, landscape architecture, product design, fashion design and media design.

Course costs: \$70.00 but there may be additional costs associated with the type of product design selected by the student.

Strongly Recommended: (but not essential) that students have access to their own laptop computer.

For further information, see: Mr Andy Evans or email: aev@fdmc.school.nz

Product Design / Technology Level 2

Content: This course consists of a selection of NCEA Level Two Achievement Standards drawn from both the Technology and DVC disciplines. The 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. 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 provides a 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 22 Credits.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91337 optional	3	Use visual communication techniques to generate design ideas	External	N/A
AS 91354	4	Undertake brief development to address an issue	Internal	Lit 1
AS 91356	6	Develop a conceptual design for an outcome	Internal	N/A
AS 91357 optional	6	Undertake effective development to make and trial a prototype	Internal	N/A
AS 91342	6	Develop a product design through graphics practice	Internal	N/A
AS 91341 optional	6	Develop a spatial design through graphics practice	Internal	L1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: This course builds on the Level One course. However, the course is open to any student who has an interest in product design.

What it leads to: This is a stand-alone one year course. However, students looking for a product design pathway will build on the skills from the Level One course as part of a three year programme.

Course costs: \$70.00 but there may be additional costs associated with the type of product design selected by the student.

Strongly Recommended: (but not essential) that students have access to their own laptop computer.

For further information, see: Mr Andy Evans or email: aev@fdmc.school.nz

Product Design / Technology Level 1

Content: This course consists of a selection of NCEA Level One Achievement Standards drawn from both the Technology and DVC disciplines. The 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. Product 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 provides a 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.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91066 optional	3	Use rendering techniques to communicate the form of design ideas	Internal	N/A
AS 91068	6	Undertake development of design ideas through graphics practice	Internal	N/A
AS 91063 optional	3	Produce freehand sketches that communicate design ideas	External	N/A
AS 91046	6	Use design ideas to produce a conceptual design for an outcome to address a brief	Internal	N/A
AS 91044	4	Undertake brief development to address a need or opportunity	Internal	Lit 1
AS 91069 optional	4	Promote an organised body of design work to an audience using visual communication techniques	Internal	Lit 1

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES - it the External is completed and submitted

Subject Guidance: Successful completion of Year 10 Design and Visual Communication course with achieved grades and/or approval from the HoD

What it leads to: This is a stand-alone one year course but can also form part of a three year course in product design. The course provides skills for those students who intend to go on to tertiary study in architecture, engineering, landscape architecture, product design, fashion design and media design.

Course costs: \$50.00 but there may be additional costs associated with the type of product design selected by the student.

For further information, see: Mr Andy Evans or email: aev@fdmc.school.nz

Religious Studies Level 3

Content: This is an NCEA course where students can achieve up to 18 Level 3 credits. UE Literacy Reading credits available

The skills they will develop include:

- Knowledge and understanding of Catholic Character and Gospel Values
- Analysing and interpreting information
- Analysing, describing and explaining features of text
- Understanding and discussing social issues
- Research and referencing skills

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91725	6	Analyse the meanings in a sacred text within a religious tradition	Internal	UE Lit Rdg
AS 90827	6	Analyse the key beliefs of a religious tradition and a secular world view in relation to ultimate questions	Internal	UE Lit Rdg
AS 90826	6	Analyse the response of a religious tradition to a contemporary ethical issue	Internal	UE Lit Rdg

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit Rdg = Standards count towards UE Reading credits

Course Endorsement: YES

What it leads to:

- University Study
- Good preparation for degrees in Theology, Arts, Humanities, Law, Psychology or Education
- Careers include teaching, medicine, environment planning, law, politics, psychology or social work
- Valuable, contributing member of New Zealand society

Course Costs: None

For further information, see: Mrs Anna Zsigovits-Mace or email: azs@fdmc.school.nz

Religious Studies Level 2

Content: This is an NCEA course where students can achieve up to 18 Level 2 credits. Level 1 Literacy credits available

The skills they will develop include:

- Knowledge and understanding of Catholic Character and Gospel Values
- Analysing and interpreting information
- Describing and explaining features of text
- Understanding and discussing social issues
- Research and referencing skills

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91724	6	Explain a significant theme in a sacred text within a religious tradition	Internal	L1 Lit
AS 90822	6	Explain how a contemporary social action derives from the ethical principles of a religious tradition	Internal	L1 Lit
AS 90821	6	Explain the changes in an expression(s) of a religious tradition	Internal	L1 Lit

L1 Lit = standard counts towards literacy credits for Levels 1 & 2

Course Endorsement: YES

What it leads to:

- Level 3 Religious Studies
- Good preparation for degrees in Theology, Arts, Law, Humanities, Psychology or Education

Course Costs: None

For further information, see: Mrs Anna Zsigovits-Mace or email: azs@fdmc.school.nz

Religious Studies Level 1

Content: This is an NCEA course where students can achieve up to 18 Level 1 credits.

The course covers a range of topics, and the students are able to gain Level 1 Literacy Knowledge and understanding of Catholic Character and Gospel Values

- Analysing and interpreting information
- Describing and explaining features of text
- Understanding and discussing social issues
- Developing personal and interpersonal skills
- Research and Referencing skills

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90816	6	Describe the purpose of a sacred text within a religious tradition	Internal	L1 Lit
AS 90818	6	Describe the application of the key ethical principle(s) of a religious tradition to an issue	Internal	L1 Lit
AS 90819	6	Describe the key beliefs of a religious tradition	Internal	L1 Lit

L1 Lit = standard counts towards literacy credits for Level 1

Course Endorsement: YES

What it leads to:

- Level 2 and Level 3 Religious Studies
- Good preparation for degrees in Theology, Arts, Humanities, Psychology or Education

Course Costs: None

For further information, see: Mrs Anna Zsigovits-Mace or email: azs@fdmc.school.nz

Social Studies Level 2

Content: This course studies the cultural environment and the effects of migration and cultural conflicts. Students will also examine the issue of immigration and the added crisis in relation to refugee migration and the global impact relating to this. This course enhances subject areas for those with an interest in digital/media design e.g. web/print/graphic design. This course will also satisfy the requirements to meet the UE Writing credits, needed for later university entrance literacy.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91279 Social Studies	4	Demonstrate understanding of conflict(s) arising from different cultural beliefs and ideas	External	Lit 1
AS 91281 Social Studies	4	Describe how cultural conflict(s) can be addressed	External	Lit 1
AS 91103 English	3	Create a crafted and controlled visual and verbal text	Internal	Lit 1
AS 91250 Media Studies	3	Demonstrate understanding of representation in the media	Internal	Lit 1
AS 22750 English Academic	6	Write a crafted text for a specified audience using researched material in English for an academic purpose	Internal	Lit 1 UE Lit /Wrtng

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: No, but may enhance endorsements in English, Media Studies and Future Problem Solving (Social Studies)

Subject Guidance: Passes in Level 1 externals in literacy rich subjects such as English, Geography, History and Media Studies highly recommended.

What It Leads to: Level 3 Media Studies. **Literacy rich study at Level 3 with approval from the HOD.**

For further information, see: Mr Mark Wales email: mwal@fdmc.school.nz or Mrs Joines email pjo@fdmc.school.nz

Science Level 1

Content: Year 11 Science comprises the study of Biology, Chemistry and Physics. It is a pre-requisite for further study in these subjects in Years 12 and 13. Issues in Science are very topical, and the Level 1 Science course involves an interesting mix of theoretical and practical work.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90944	4	Demonstrate understanding of aspects of acids and bases	External	N/A
AS 90940	4	Demonstrate understanding of aspects of mechanics	External	Num
AS 90950	4	Investigate biological ideas relating to interactions between humans and micro-organisms	Internal	N/A
AS 90946	4	Investigate the implications of the properties of metals for their use in society	Internal	N/A
AS 90935	4	Carry out a practical physics investigation that leads to a linear mathematical relationship, with direction	Internal	Num

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES

Subject Guidance: Students must have satisfactorily completed a Y10 course in Science.

What it Leads to: Level 1 Science is a compulsory subject for Year 11 students at Francis Douglas Memorial College, and provides a starting point for senior Science subjects. Entry into Level 2 and Level 3 Chemistry, Biology and Physics courses require success in Level 1 Science. Please refer to each Level 2 and Level 3 subject for specific details.

Course costs: The purchase of student write-on workbooks is required (approximately \$30).

For further information, see: Mrs Colleen Severinsen, HOD Science or email: CSE@fdmc.school.nz

STAR LEVEL 2 AND 3

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.

Examples:

Agriculture

Animal Care

Automotive

Building

Business Diploma

Electrical Engineering

Equine

Horticulture

Hospitality

Sport

Tourism

University papers – some may be available

STAR will also fund short taster style classes that help students to explore career options and make informed decisions about their future schooling, work or study. These will be advertised at school and will be available Terms 2 - 4.

Entry Requirements:

Students who wish to be considered for the STAR full year course must get a separate application form from the Careers Office.

Students must have proven ability to work at the level of the course set and be able to cope with distance learning.

Enquiries to: Ms Lauren O'Reilly or email: lor@fdmc.school.nz

Technology Wood Level 3

Content: This Level 3 NCEA course gives students the ability to achieve a selection of up to 22 Level 3 Technology Achievement Standard credits, from the list below. These will be finalised depending on numbers of students and what they wish to study. 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. Students pick up technical, hands-on skills as well as planning, design, time management, problem solving, research and evaluation skills. Woodworking joints are taught and manufactured as well as teaching students to take pride in their work and the importance of doing a good job. If the external standard is sat, endorsement is possible in this subject.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91620	6	Implement complex procedures to integrate parts using resistant materials to make a specified product	Internal	N/A
AS 91610	6	Develop a conceptual design considering fitness for purpose in the broadest sense	Internal	N/A
AS 91611	6	Develop a prototype considering fitness for purpose in the broadest sense	Internal	N/A
AS 91612 <i>optional</i>	4	Demonstrate understanding of how technological modelling supports technological development and implementation	External	L 1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Successful completion of Level Two Technology Wood or Engineering course (achieving at least 14 credits) and/or approval from the HoD.

What it leads to: This course will be useful for students planning to enter trade type situations such as building, joinery, construction or associated trades. It is also useful for students wanting to study certain degree courses as all of the above standards are on the 2016 NZQA list of approved subjects for University Entrance (14 credits required in a subject).

Course costs: \$125

For further information, see: Mr Andy Evans - HoD Technology or email: AEV@fdmc.school.nz

Technology Wood Level 2

Content: This NCEA course gives students the ability to achieve a selection of up to 22 Level 2 mixed Technology Achievement and BCATS Unit Standard credits. 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 outdoor Adirondack chair and a spice/storage rack, or kitchen trolley/butcher's block. Students pick up technical, hands-on skills as well as planning, design, time management, problem solving, research and evaluation skills. Woodworking joints are taught and manufactured as well as teaching the boys to take pride in their work and the importance of doing a good job. All standards will be assessed holistically.

Proposed Assessments:

Standard	Credits	Description	Internal/External	Literacy & Numeracy
US 12927	6	Identify, select, maintain, and use hand tools for BCATS projects (if 3 projects completed)	Internal	N/A
US 24350	6	Identify, select, maintain, and use portable power tools for BCATS projects (if 2 projects completed)	Internal	N/A
US 24354	4	Demonstrate knowledge of and apply safe working practices in a BCATS workplace (if 2 projects completed)	Internal	N/A
AS 91344	6	Implement advanced procedures using resistant materials to make a specified product with special features	Internal	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: NO

Subject Guidance: Successful completion of Level One Technology Wood course (achieving at least 15 credits) and/or approval from the HoD.

What it leads to: This course will be useful whether a student is planning to move up to Level 3 or to leave school to enter a trade type situation such as building, joinery, construction or associated trades.

Course costs: \$120

For further information, see: Mr Andy Evans – HOD Technology

Technology Wood Level 1

Content: This NCEA course gives students the ability to achieve a selection of up to 22 Level 2 mixed Technology Achievement and BCATS Unit Standard credits. 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 outdoor Adirondack chair and a spice/storage rack, or kitchen trolley/butcher's block. Students pick up technical, hands-on skills as well as planning, design, time management, problem solving, research and evaluation skills. Woodworking joints are taught and manufactured as well as teaching the boys to take pride in their work and the importance of doing a good job. All standards will be assessed holistically.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91047	6	Undertake development to make a prototype to address a given brief	Internal	N/A
AS 91057	6	Implement basic procedures using resistant materials to make a specified product.	Internal	N/A
US 24352	2	Demonstrate knowledge of and apply safe working practices in the construction of a BCATS project.	Internal	N/A
US 25919	2	Use hardware and fastenings for a BCATS project	Internal	N/A
US 25920	3	Use joints for a BCATS project	Internal	N/A
AS 91048 <i>optional</i>	4	Demonstrate understanding of how technological modelling supports decision making	External	L 1 Lit

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: YES IF EXTERNAL IS SUBMITTED

Subject Guidance: Successful completion of Level One Technology Wood course (achieving at least 15 credits) and/or approval from the HoD.

What it leads to: This course will be useful whether a student is planning to move up to Level 3 or to leave school to enter a trade type situation such as building, joinery, construction or associated trades.

Course costs: \$95

For further information, see: Mr Andy Evans - HoD Technology or email: AEV@fdmc.school.nz

Technology Engineering Level 2

Content: This is a wholly unit standard course that focuses on the Mini Motorbike project. The aim is for students to produce a fully working mini motorbike by the end of the year. There is a possibility of up to six standards to be assessed against up to a total of 19 credits. Skills and knowledge learnt include safety; component assembly; machining within tolerances; problem solving; selecting and using fastening methods; technical drawing and geometric construction; selecting and using power tools; simple and precise measuring; material knowledge and application; marking out techniques, working from templates and datum points; tube forming and fabrication; engine tuning and troubleshooting; testing, evaluating and modification; MIG and arc welding; selecting and using hand tools; more advanced engineering lathe and milling machine work. All standards will be assessed holistically.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
US 2395	4	Select, use and care for, engineering hand tools	Internal	N/A
US 2396	4	Select, use and maintain portable hand-held engineering power tools	Internal	N/A
AS 91355	4	Select and use planning tools to manage the development of an outcome	Internal	N/A
US 4436	4	Select, use and care for, engineering marking-out equipment	Internal	N/A
US 21911	2	Demonstrate knowledge of safety on engineering worksites	Internal	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: NO

Subject Guidance: Successful completion of Level One Technology Engineering course (achieving at least 14 credits) and/or approval from the HoD.

What it leads to: This is a practical, hands-on course aimed at students going into a trades or pre-trade course in machining, instrumentation, automotive, gas-fitting, fabrication, plumbing, maintenance and diagnostics, fabrication or marine engineering.

Course costs: \$425-\$545 depending on the type of motorbike chosen.

For further information, see: Mr Andy Evans - HoD Technology or email: AEV@fdmc.school.nz

Technology Engineering Level 1

Content:

This is a wholly unit standard course that focuses on the Drift Trike project. There is a possibility of up to four standards to be assessed against up to a total of 26 credits. Skills learnt include safety; sketching and drawing; research, design and problem solving; selecting and using fastening methods; testing, evaluating and modification; MIG and arc welding; selecting and using hand tools; using engineering lathes and an introduction to milling machine skills. All standards will be assessed holistically.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
US 22923	12	Demonstrate basic engineering workshop skills under close supervision	Internal	N/A
US 22926	2	Demonstrate knowledge of safety procedures in a specific engineering workshop	Internal	N/A
US 4433	2	Select, use, and care for simple measuring devices used in engineering	Internal	N/A
AS 91045	4	Use planning tools to guide the technological development of an outcome to address a brief	Internal	N/A

Num = standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and Writing credits

Course Endorsement: NO

Subject Guidance: Achieved grades from the year 10 Technology Engineering option and/or HOD Approval

What it leads to: This is a practical, hands-on course aimed at students going into a trades or pre-trade course in machining, instrumentation, automotive, gas-fitting, fabrication, plumbing, maintenance and diagnostics, fabrication or marine engineering. It leads into the level two Technology Engineering course and is required as a pre-requisite to this course.

Course costs: \$95.00

For further information, see: Mr Andy Evans - HoD Technology or email: AEV@fdmc.school.nz

Trades Academy

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. Trades Academy is timetabled as a subject one period per day.

Benefits:

- A head start on a Trades career while still at school and while achieving NCEA
- Study at WITT one day per week (depending on programme)
- More choices for students to include vocational pathways in their range of study options
- 'Work Ready' young people
- Enrol into further study after successful completion of the Trades Academy

Trades on Offer in 2019 (still to be confirmed by WITT):

Automotive
Beauty & Makeup Artistry
Build a Bach
Carpentry
Cookery
Electrical
Hairdressing
Mechanical Engineering
Restaurant Service
Sport & Fitness
Welding & Fabrication

Visual Art – Design Level 3

Content: Level Three 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. This course looks at historical and contemporary typography and graphic layout. It enables students to experiment with conventional art materials and digital technologies. Students need to develop a proposition to sustain their year's work and then create a successful logo design for their product whilst looking at elements of 'The Brief', Concept, Design and Development until they find a successful 'Final' resolution. They make flyers, pamphlet/brochures, teaser/posters, business cards, develop commercial advertising ideas and always try to develop novel outcomes.

Students need to complete a 3-board external portfolio to pass this University Entrance course. The portfolio submission is worth 14 credits, so if achieved will provide one of the three subject passes required. 8 internal credits (2 Achievement Standards) will be studied from the list below.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91440	4	Analyse methods and ideas from established design practice	Internal	L1 Lit
AS 91445	4	Use drawing to demonstrate understanding of conventions appropriate to design	Internal	N/A
AS 91450	4	Systematically clarify ideas using drawing informed by established design practice	Internal	N/A
AS 91455	14	Produce a systematic body of work that integrates conventions and regenerates ideas within design practice	External	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Year 12 Visual Art, Digital Technology or by Approval from the HOD Arts and/or with recommendation from the TIC Digital Technology.

What it leads to: Year 13 Design is a University Entrance accredited subject.

14 credits in Design will provide you with one of the three subject areas you need for University Entrance. The design portfolio can also be used for folio submission purposes for Design, Fine Arts and Architecture applications to a range of University and Polytechnics throughout New Zealand.

Check each website for specific requirements or visit the College Careers Advisors.

Course costs: \$100.00 (Photocopying, Folio Boards, Materials, Commercial Printing)

For further information, see: Mrs Jane Aitken Connolly or email: jac@fdmc.school.nz

Visual Art - Painting Level 3

Content: The NCEA Level Three 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. This work can be used for applications that require a portfolio for course selection e.g. some Tertiary Design, Fine Arts and Architecture courses. Students will work on their genre of choice, experimenting with ideas and materials whilst perfecting their skills. They need to be self-motivated to seek information, view and respond to artworks and make critical decisions concerning their personal development. Students will research ideas, show development, annotate, collect, doodle and scrapbook in their A3 workbook. Their initial 'Proposal' will be the building block that underpins their year's inquiry. Scholarship Students will be able to submit 8 pages from their workbook to support their practical folio submission. Students need to complete a 3 board external portfolio to pass this University Entrance course. The portfolio submission is worth 14 credits, so if achieved will provide one of the three subject passes required for University Entrance. 8 credits (2 standards) will be available internally, from the 3 standards listed below.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91441	4	Analyse methods and ideas from established painting practice	Internal	L1 Lit
AS 91446	4	Use drawing to demonstrate understanding of conventions appropriate to painting	Internal	N/A
AS 91451	4	Systematically clarify ideas using drawing informed by established painting practice	Internal	N/A
AS 91456	14	Produce a systematic body of work that integrates conventions and regenerates ideas within painting practice	External	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Year 12 Visual Art or by approval from the HOD Arts.

What it leads to: Year 13 Painting is a University Entrance accredited subject.

14 credits in Painting will provide you with one of the three subject areas you need for University Entrance. The painting portfolio can also be used for folio submission purposes for Design, Fine Arts and Architecture applications to a range of University and Polytechnics throughout New Zealand. Check each website for specific requirements or visit the College Careers Advisors.

Course costs: \$100.00 (Photocopying, Folio Boards, Materials (paints, papers, brushes, solvents, etc)

For more information, see Mrs Jane Aitken Connolly or email jac@fdmc.school.nz

Visual Art - Photography Level 3

Content: The NCEA Level Three 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 analogue and digital cameras and related media. Students will have access to Photoshop, Lightroom and other software packages. They will work on their chosen genre independently and must possess good research and organizational skills to enable them to find out about historical and contemporary photographers and their ways of working, and then use this information to scaffold and apply to their own personal study.

This course is both film and computer based. Students need to complete a 3 board external portfolio to pass this University Entrance course. The portfolio submission is worth 14 credits, so if achieved will provide one of the three subject passes required.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91447	4	Use drawing to demonstrate understanding of conventions appropriate to photography	Internal	N/A
AS 91452	4	Systematically clarify ideas using drawing informed by established photography practice	Internal	N/A
AS 91457	14	Produce a systematic body of work that integrates conventions and regenerates ideas within photography practice	External	N/A
AS 91460	4	Produce a resolved work that demonstrates purposeful control of skills appropriate to a visual arts cultural context	Internal (optional)	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Year 12 Photography or by approval from the HOD Arts.

What it leads to: Year 13 Photography is a University Entrance accredited subject.

14 credits in Photography will provide you with one of the three subject areas you need for University Entrance. The photography portfolio can also be used for folio submission purposes for Design, Fine Arts and Architecture applications to a range of University and Polytechnics throughout New Zealand. It can also be used for pursuing a photo-journalism career. Check each website for specific requirements or visit the College Careers Advisors.

Course costs: \$150.00 (Photocopying, Folio Boards, Film, Photo paper, chemicals etc)

For further information, see: Mrs Jane Aitken Connolly or email: jac@fdmc.school.nz

Visual Art - Photography Level 2

Content: This NCEA Level Two course will introduce basic camera and darkroom techniques and a 2 board folio will be created for the external Achievement Standard. Students will inform their work by familiarising themselves with historical and contemporary artist models. The aim of this course is to provide students with a basis in this subject in which to gain 20 credits at Level 2 whilst developing skills to enable them to perform competently in NCEA Level 3 Photography the following year. This course is both film and digitally based. Students will have access to Photoshop, Lightroom and other software packages. Enthusiasm, good time and self-management skills are required.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91312	4	Use drawing methods to apply knowledge of conventions appropriate to photography	Internal	N/A
AS 91317	4	Develop ideas in related series of drawings appropriate to established photography practice	Internal	N/A
AS 91322	12	Produce a systematic body of work that shows understanding of art making conventions and ideas within photography	External	N/A
AS 91325	4	Produce a resolved work that demonstrates control of skills appropriate to cultural conventions	Internal (optional)	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2
UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Year 11 Option Art is an advantage but not necessary. Approval of the HOD Arts.

What it leads to: Year 12 / NCEA Level 2 Photography is a pre-requisite for studying Year 13/ NCEA Level 3 Photography. This subject is a University Entrance accepted domain.

Course costs: \$150.00 (Photocopying, Folio Boards, Film, Photo paper, chemicals etc)

For further information, see: Mrs Jane Aitken Connolly or email: jac@fdmc.school.nz

Visual Art Level 2

Content: This course builds on the skills and techniques that have been introduced in Year 11 and previous Junior Art module courses. Students research artworks and artist models (historical and contemporary) to help scaffold their own inquiry for the construction of a 2-board portfolio for the external Achievement Standard, (12 credits).

The aim of this course is to encourage students to experiment and develop skills in the genre of their choice, whilst helping them to build a systematic body of work based on an informed decision-making process. Students need to work diligently and maintain a good work ethic to do well. This course is primarily for students looking to go into Creative Industries fields such as design, fine arts, advertising, media, architecture, engineering etc.

An excellence result in this subject at Level 2 can waive the portfolio requirement for some University courses such as Architecture. An overall merit or excellence endorsement at Level 2 can also be advantageous when they enrol for University and Halls of Residence during their Year 13 year. Some Universities also offer financial scholarships for holders of an Excellence endorsement at Level 2. Level 2 Painting students should strive to attain this.

Proposed Assessments:

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 91311	4	Use drawing methods to apply knowledge of conventions appropriate to painting	Internal	N/A
AS 91316	4	Develop ideas in a related series of drawings appropriate to established painting practice	Internal	N/A
AS 91321	12	Produce a systematic body of work that shows understanding of art making conventions and ideas within painting.	External	N/A
AS 91325	4	Produce a resolved work that demonstrates control of skills appropriate to cultural conventions	Internal	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: A pass in Year 11 NCEA Art or by approval from the HOD Arts.

What it leads to: Visual Arts subject choices in Year 13 / NCEA Level 3, of University Entrance Painting, Design or Photography.

Course costs: \$70.00 (Photocopying, Folio Boards, Materials)

For further information, see: Mrs Jane Aitken Connolly – HOD Arts or email: jac@fdmc.school.nz

Visual Art Level 1

Content: This NCEA course aims to assist students to develop their creative imagination, personal technique and critical faculty. Students will be required to research information on art, artists and artworks, record information using drawing, painting and printmaking procedures, and develop and extend artistic ideas using a variety of processes. Students with an aptitude in art and an idea of pursuing any of the creative technologies such as Engineering, Industrial, Architectural or Landscape Design at a Tertiary level should take this subject. Students will submit a 2-board folio for the external Achievement Standard 90916. 8/10 credits will be available from the list of Internal Achievement Standards. All work can realistically be achieved in timetabled classes, if students utilise their time. Research should be accomplished at home so they can use their practical skills in class.

Proposed Assessments: A range of Achievement Standards will be chosen from the list below which reflect individual strengths.

Standard	Credits	Description	Internal/ External	Literacy & Numeracy
AS 90913	4	Demonstrate understanding of art works from a Māori and another cultural context using art terminology	Internal	L1 Lit
AS 90914	4	Use drawing methods and skills for recording information using wet and dry media	Internal	N/A
AS 90915	6	Use drawing conventions to develop work in more than one field of practice	Internal	N/A
AS 90916	12	Produce a body of work informed by established practice, which develops ideas, using a range of media	External	N/A
AS 90917	4	Produce a finished work that demonstrates skills appropriate to cultural conventions	Internal	N/A

Num =standard counts towards numeracy credits Lit1 = standard counts towards literacy credits for Levels 1 & 2

UE Lit = Standard counts towards UE Reading and/or Writing credits

Course Endorsement: YES

Subject Guidance: Year 10 Option Art or by approval of the HOD Arts.

What it leads to: Visual Arts subject choices in Year 12 / NCEA Level 2 Painting or Photography

Course costs: \$50.00 (Photocopying, Folio Boards, Materials)

For further information, see: Mrs Jane Aitken Connolly – HOD Arts or email: jac@fdmc.school.nz