



JHC

JAMES HARGEST COLLEGE KEEP FAITH



Year 11, 12 and 13 Subject Outlines 2027

Our Senior programme offers:

- Challenges for all students
- A high level of basic skill development
- A wide choice of subjects
- Opportunity to study at the Southern Institute of Technology and University level

Year 13



QUALIFICATIONS AVAILABLE

YEAR	NATIONAL AWARD	UNIT STANDARDS
13	New Zealand Scholarships National Certificate of Educational Achievement (NCEA) Level 3	In some subjects National Certificates can be achieved in full or part via Unit Standards Assessment
12	National Certificate of Educational Achievement (NCEA) Level 2	
11	Brigadier's Diploma	

NATIONAL CERTIFICATE OF EDUCATIONAL ACHIEVEMENT (NCEA)

- The assessment for each subject is made up of a number of Achievement Standards and/or Unit Standards. Some Achievement Standards are internally assessed and some are externally assessed. All Unit Standards are internally assessed. Each Standard generates a number of credits (generally between 2 and 6 credits) which make up the total for the subject.
- Achievement Standards are awarded grades of Not Achieved, Achieved, Achieved with Merit and Achieved with Excellence.
- Unit Standards are generally awarded grades of Not Achieved or Achieved.

NCEA LEVELS 2-3 CERTIFICATE ENDORSEMENT

Endorsement with Merit

For a certificate to be endorsed with Merit, 50 credits at Merit or Excellence will be required at the same level, or higher, on the National Qualifications Framework (NQF) as the certificate being awarded.

Endorsement with Excellence

For a certificate to be endorsed with Excellence, 50 credits at Excellence will be required at the same level, or higher, on the NQF as the certificate being awarded.

Course Endorsement (ie Subject Endorsements)

Students will receive an Excellence Endorsement if they gain 14 or more credits at Excellence level, while students gaining 14 or more credits at Merit (or Merit and Excellence) will gain a Merit Endorsement. For most subjects at least 3 of the 14 credits must be from internally assessed standards and 3 from external assessments. This is to demonstrate students are competent in both forms of assessment.

POLICIES

1. Students must enrol in a full time course, i.e. 6 subjects (Year 11 and 12) and 5 subjects (Year 13).
2. Students are to enter all standards in each subject.
3. Any course changes must be made by 1 March in consultation with the Dean. After this it will be at the Dean's discretion.

YEAR 11 - BRIGADIER'S DIPLOMA

This Diploma provides the framework against which students are now assessed in Year 11. It maintains and protects academic rigour, while incorporating wider holistic educational goals. Year 11 is an important year where students are gaining the skills and knowledge to achieve to the best of their ability in NCEA Level Two the following year.

Course of Study

Students will undertake three compulsory courses in English, Maths and Science. Students also select three additional specialist subjects from our wide range of options.

Diploma Structure

Each Subject counts towards the total academic score. The total maximum score per course is 100. The six scores are added to create a score out of 600. They are converted to a Diploma Level. The Diploma may also be endorsed with important aspects such as Sports, Cultural or Āwhina contribution.

Assessment towards the Diploma:

This can consist of projects, presentations, tests, homework, examinations, checkpoints and planning materials. These will be dependent on the course. Assessments contribute to a total score for the course. Attendance and Hargest Way Grades also form part of the data used to determine which level of the Diploma has been attained.

Academic Results	Diploma Level	Attendance requirement	Hargest Way Grades
	Beginning Te Kākano Tōtara  KĀKANO		
	Proficient Te Mātātīpu Tōtara  MĀTĀTĪPU		
	Advanced Te Kōhure Tōtara  KŌHURE	Less than 5% unjustified absences	Average Hargest Way Grades above 4
	Outstanding Te Māhuri Tōtara  MĀHURI	Less than 3% unjustified absences	Average Hargest Way Grades above 4.5
	 TŌTARA POUNAMU	No unjustified absence.	Average Hargest Way Grades of 5

SENIOR SUBJECTS FOR 2027

This information outlines subject choices for all students in Years 11, 12, 13 and beyond. When choosing your subjects, look back at what you have taken and enjoyed in the past, and look ahead to see that you will be able to take the subjects you want in the following years.

YEAR 11 STUDENTS 2027

1. All students will choose 6 subjects.**
2. All students must take a course in English, Mathematics and Science.
3. Students may continue with their two Year 10 option subjects and/or choose from the following subjects :

Accounting	Art	Culinary Arts
Design & Visual Communication	Digital Technologies	Drama
Economics	ESOL	Fashion and Design
Food and Nutrition	Geography	Hard Materials Design
Hard Materials Trade	Health and Physical Education	History
Literacy	Media Studies	Music

Please read subject notes for conditions of entry.

**Students studying in the Cambridge class at Year 11 choose two optional subjects alongside their IGCSE classes

YEAR 12 STUDENTS 2027

1. All students will choose 6 subjects.
2. All students must take English in their course.
3. A student may choose a subject providing they meet the entry requirements.
4. Subjects that you can study for the first time at this level if you meet the entry requirements are:

Accounting	Biology	Building and Construction
Business Studies	Chemistry	Childcare and Development
Classical Studies	Culinary Arts	Design
Design & Visual Communication	Digital Technologies (Beginners)	Drama
Economics	Electronics	ESOL
Fashion and Design	Food and Nutrition	Geography
Hard Materials Design	Health Education	History
Literacy	Mechanical Engineering	Media Studies
Music	Outdoor Recreation	Photography
Physical Education	Physics	Tourism
Transition Skills		

Please read subject notes for conditions of entry.

NB: University Entrance requires students to have:

- 5 Level 2 Credits in Reading and 5 Level 2 Credits in Writing
- 10 Level 1 or higher credits in Numeracy

Many other Tertiary institutions have similar requirements. Please check University/Polytechnic websites and/or talk to Careers staff for specific course entry requirements.

Note: If you have not yet gained Literacy and/or Numeracy you will need to ensure that your chosen course allows for this.

YEAR 13 STUDENTS 2027

1. All students will choose 5 subjects. The selection of a sixth subject is at the discretion of Deans and Mrs McDowall.
2. A student may choose a subject providing they meet the entry requirements.
3. Subjects that you can study for the first time at this level if you meet the entry requirements, and in consultation with Head of Department, are:

Biology	Chemistry	Classical Studies
Design & Visual Communication	Digital Technologies	Drama
Economics	ESOL	Fashion and Design
Food and Nutrition	Geography	Hard Materials Design
Hard Materials Trade	History	Literacy
Media Studies	Music	Physical Education
Physics	Science	Tourism

Please read subject notes for conditions of entry.

CHOOSING SENIOR SUBJECTS

Where do I begin?

- Ask advice of Careers Advisers/Deans/Subject Teachers/Form Teachers/Whānau/Employers

www.tahatu.govt.nz has some great resources.

- Careers Interest Test
- Choosing NCEA subjects
- Future Studies Pathways

SUBJECT JOB MATCHER - MATCH JOBS WITH YOUR SCHOOL SUBJECTS

<https://www.moneyhub.co.nz/what-to-study.html>

And remember, not all subjects will necessarily lead to a promised career. By selecting a good range of subjects you will give yourself opportunities.

Year 10 Students 2026

Choose subjects from the Year 11 list.

Year 11 courses may include an Achievement Standard. All year 11 courses are designed to enable students to achieve NCEA Level Two in 2028.

Year 11 Students 2026

Choose subjects from the Level 2 list.

Look at Level 3 subjects.

Ask:

- Do I have enough subjects that continue to Level 3?
- Can I take a Level 3 subject without taking it at Level 2?

Year 12 Students 2026

Choose subjects from the Level 2 and Level 3 lists.

Keep your options open and consider University Entrance qualifications.

USE THIS FORMULA TO CHOOSE YOUR COURSE

<i>Ability</i>	<i>Interest</i>	<i>Ambition</i>
Firstly, take your ability: • how good you are at a subject. • how easily you understand it. Your test marks and your work will help you to estimate your ability. Discuss your ability with your teacher as you might have a false idea of how well you can do something. Be careful not to underestimate your ability.	Add to your ability your interest—what you enjoy doing. Reasons for enjoyment might be because of the work, or because you seem good at it. You gain more satisfaction and probably reach a higher standard in your work if you are interested in it.	You may not know what career you would like to do—the majority don't. You may have several careers during your lifetime so keep your subjects as wide as possible. However, if you do know or if you have ideas about what you might do, you can find out what range of subjects may be needed. English and Maths are necessary in so many careers that you should check to see what level you need. Careers staff are happy to help you and your whānau talk this through.

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LEADS TO



Subject choice

Go through the possible subjects listed. Take a note of possibilities and investigate those subjects thoroughly.

NB: COURSE CHANGES

Any course changes must be made by 1 March. After this, changes will be at the Dean's discretion.

If you need to create a timetable that includes subjects from other year levels or is specific to you in other ways, please email epickering@jameshargest.school.nz

Use the JHC website to access other year level booklets: <https://www.jameshargest.school.nz/subjects/>

QUALIFICATIONS

Exam entry fees are **not** listed under course descriptions as the school has no control over these. Currently only International Students pay NZQA fees.

LEVEL 2

National Certificate of Educational Achievement NCEA Level Two

For a student to be awarded NCEA Level 2, they must achieve 60 credits at Level 2 or higher, plus 20 credits of approved Literacy and Numeracy credits.

LEVEL 3

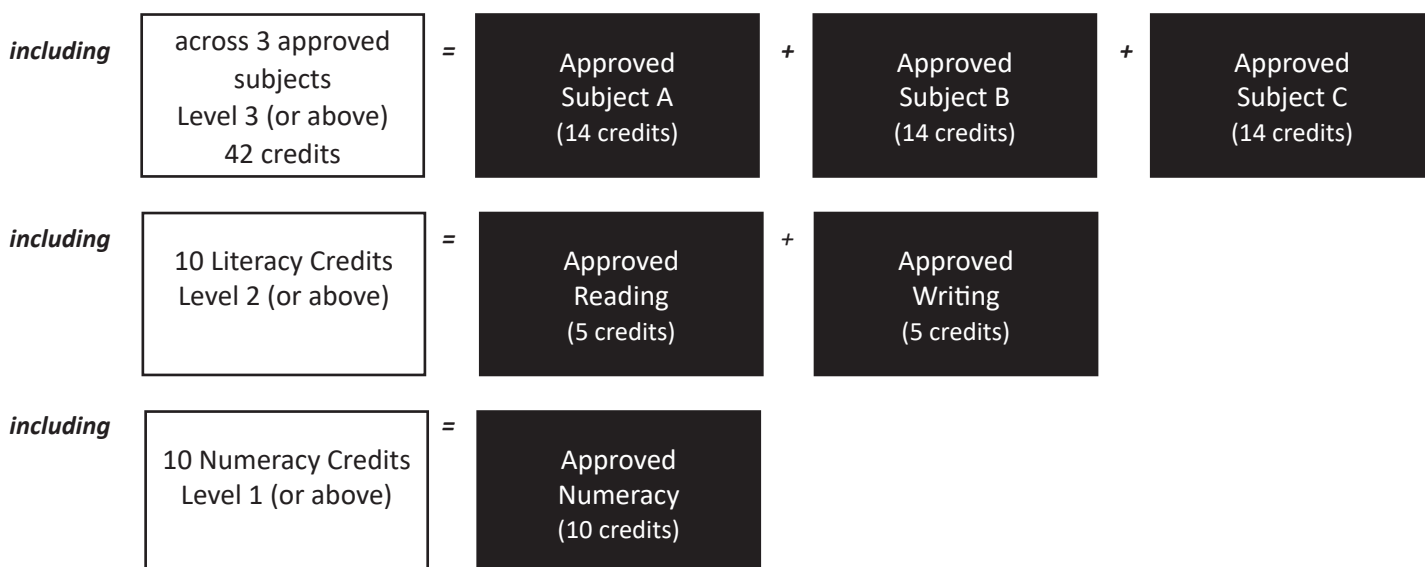
National Certificate of Educational Achievement NCEA Level Three

For a student to be awarded NCEA Level 3, they must achieve 60 credits at Level 3 or higher, plus 20 credits of approved Literacy and Numeracy Standards.

Minimum University Entrance 2027

National Certificate of Educational Achievement Level 3 (80 credits)

(Must achieve 60 credits at Level 3 and the corequisites must also be achieved.)



Each university may choose to rank students according to their Level 2 and Level 3 results depending on the numbers they have applying. Please check the university websites for their latest updates. Some universities have additional criteria for specific courses especially around Science and English credits.

NB: If a Special Assessment Conditions assistant is used as a writer, the credits obtained do not count for Literacy Writing.

University Entrance Approved Subjects that are offered at James Hargest College:

Accounting	Fashion and Design	Painting (Practical Art)
Biology	Food and Nutrition	Photography (Practical Art)
Chemistry	French	Physical Education
Classical Studies	Geography	Physics
Design (Practical Art)	History	Print Making (Practical Art)
Design & Visual Communication	Japanese	Science
Digital Technologies	Mathematics	Spanish
Drama	Mathematics with Calculus	Statistics
Economics	Media Studies	Te Reo Māori
English	Music	

UE can be approved individually in Biology, Chemistry, Physics and Science OR UE can be approved for one subject, also called Science, if 14 credits are gained overall from any combination of Biology, Chemistry, Physics and Science. Eg UE could be awarded for 14 credits gained in Chemistry AND for 14 credits gained from Biology and Physics.

UE can be approved individually in Calculus, Statistics and Mathematics OR UE can be approved for one subject also called Mathematics if 14 credits are gained overall from a combination of Statistics and Calculus.

YEAR 13

YEAR 13 STUDENTS 2027

1. All students will choose 5 subjects. The selection of a sixth subject is at the discretion of Deans and Mrs McDowall.
2. A student may choose a subject providing they meet the entry requirements.
3. Subjects that you can study for the first time at this level if you meet the entry requirements, and in consultation with Head of Department, are:

Biology
Design & Visual Communication
Economics
Food and Nutrition
Hard Materials Trade
Media Studies
Physics

Chemistry
Digital Technologies
ESOL
Geography
History
Music
Science

Classical Studies
Drama
Fashion and Design
Hard Materials Design
Literacy
Physical Education
Tourism

Please read subject notes for conditions of entry.

The Arts - Visual Arts	
Design	75
Painting	75
Photography	76
Printmaking	76
Arts - Performing Arts	
Drama	78
Music	79
English	
L3ENW English	80
L3ENV English	80
L3ENB English	81
English for Speakers of Other Languages (ESOL)	81
Health & Physical Education	
Physical Education	83
Languages	
French	84
Japanese	84
Spanish	85
Te Reo Māori	85

Mathematics & Statistics	
Mathematics with Calculus	87
L3STA - Statistics A	87
L3STB - Statistics B	88
Science	
Biology	89
Chemistry	89
Physics	90
Science	91
Social Sciences	
Accounting	92
Classical Studies	92
Economics	93
Geography	94
History	94
Media Studies	95
Tourism	96
Technology - Food & Fabrics	
Culinary Arts	97
Fashion and Design	98
Food and Nutrition	98

Technology - Digital	
Digital Technologies: Beginners	100
Digital Technologies: Media	100
Digital Technologies: Programming	101
Technology - Hard Materials	
Design & Visual Communication	102
Hard Materials Design	102
Mechanical Engineering	103
Other	
Literacy	104

THE ARTS - Visual Arts

Design

Entry Requirements

Prefer Level 2 Design

Qualifications

NCEA Level 3 (UE Approved)

Assessment

2 Internal Achievement Standards (8 credits)

1 External Achievement Standards (14 credits)

Cost

\$12 folio board

Course related costs \$20, SD card \$20 as per Level 2 incl. Folio printing \$75

Adobe licence \$9 including compatible device

Course Description

3.2 Use drawing to demonstrate understanding of conventions appropriate to design(4 credits internal)

3.3 Systematically clarify ideas using drawing informed by established design practice (4 credits internal)

3.4 Produce a systematic body of work that integrates conventions and regenerates ideas within design practice (14 credits external)

3.5 Produce a resolved work that demonstrates control of skills appropriate to cultural conventions

Painting

Entry Requirements

NCEA Achievement Standard 2.4 Painting or with Head of Department approval

Qualifications

NCEA Level 3 (UE Approved)

Assessment

2 Internals 8 credits

1 External 14 credits

Cost

\$12 Folio card

\$30 Paper, card and Mediums

Course Description

3.2 Use drawing to demonstrate understanding of conventions appropriate to painting (4 credits internal)

3.3 Systematically clarify ideas using drawing informed by established painting practice (4 credits internal)

3.4 Produce a systematic body of work that integrates conventions and regenerates ideas within painting practice (14 credits external)

Photography

Entry Requirements

Prefer Level 2 Photography

Qualifications

NCEA Level 3 (UE Approved)

Assessment

2 Internal Achievement Standards (8 credits)

1 External Achievement Standards (14 credits)

Cost

Course related costs \$20, SD \$20 card as per Level 2 incl. Photography printing \$75.00

Adobe photoshop licence \$9 with a compatible device

Course Description

3.2 Use drawing to demonstrate understanding of conventions appropriate to photography(4 credits internal)

3.3 Systematically clarify ideas using drawing informed by established photography practice (4 credits internal)

3.4 Produce a systematic body of work that integrates conventions and regenerates ideas within photography practice (14 credits external)

3.5 Produce a resolved work that demonstrates control of skills appropriate to cultural conventions

Printmaking

Entry Requirements

NCEA Achievement Standard 2.4 or Head of Department Approval

Qualifications

NCEA Level 3 (UE Approved)

Assessment

2 Internal Achievement Standards (8 credits)

1 External Achievement Standards (14 credits)

Cost

\$12 Folio cost

Printmaking materials \$40

Course Description

3.2 Use drawing to demonstrate understanding of conventions appropriate to printmaking(4 credits internal)

3.3 Systematically clarify ideas using drawing informed by established printmaking practice (4 credits internal)

3.4 Produce a systematic body of work that integrates conventions and regenerates ideas within printmaking practice (14 credits external)

ARTS - Performing Arts

Drama

Entry Requirements

Students should have achieved at least 12 credits in Level 2 Drama or Level 2 English. A satisfactory attendance record from Level 2. Entry is at the discretion of the Head of Department.

Qualifications

NCEA Level 3 (UE Approved)

Assessment

Students select their Internal Achievement Standards according to strengths and interests. It is expected that they will attempt the equivalent of a minimum of 13 credits for Internal Achievement Standards.

1 External Achievement Standard (4 credits)

UE Literacy: Reading (8 credits) and Writing (8 credits)

Cost

Course Description

Research reveals the positive impact of Drama on a student's physical, emotional, social and cognitive development. Studying Drama will equip you with a range of skills such as self-confidence, imagination, empathy, co-operation, concentration, communication, problem solving and self-discipline. The skills of Drama are relevant to a variety of fields in school, career and life. Drama gives you the opportunity to express yourself.

Students will develop a sound knowledge of theatre history, developing their ability to perform in both scripted and devised work. Students will have the opportunity to create solo pieces of theatre and understand the skills required to stage a performance.

Please note the following: There is a written component to this course. All internal standards require portfolio work to be completed in order for credits to be obtained. No standard is reliant on performance alone.

Music

Entry Requirements

If new to the subject at Year 13, students must have some musical theory knowledge and be able to play at least one instrument (or sing) to approximately Grade 5 level if selecting a performance pathway. Approval from the Head of Department is required to ensure their suitability. As part of this course, students must be taking regular lessons in their chosen performance instrument or singing (either privately, or through the Itinerant Music Scheme at school) if intending to include performance standards in their programme of study

Qualifications

NCEA Level 3 (UE Approved)

Assessment

Internal Achievement Standards offered (up to 25 credits)

1 External Achievement Standard (4 credits)

Exact credits will depend on the pathway selected.

Cost

Course Description

Music is a dynamic, highly creative subject that gives students the freedom to select their own artistic path while building lifelong skills. Beyond developing performance and compositional abilities, studying music sharpens advanced problem-solving, critical thinking, visual and auditory analysis, and collaborative skills—traits that make music students uniquely adaptable and well-rounded across all academic disciplines.

Whether aiming for tertiary study, a career in the creative industries, or simply pursuing a lifelong passion, Year 13 Music provides a supportive space to create, communicate, and grow.

Flexible Course Pathways

Students can tailor their program to their strengths and interests through a combination of:

Performance: Solo, group, or second instrument performance

Creation: Songwriting, arrangement, and original composition

Analysis & Research: Musicology, set-work analysis, and independent music research

ENGLISH

L3ENW English

Entry Requirements

17 credits in NCEA Level 2 English:

- Must have achieved Merit or Excellence in Achievement Standard 91101: Writing Portfolio
- Must have achieved Merit or Excellence in Achievement Standard 91105: Info Lit
- Must have achieved Merit or Excellence in at least ONE External Standard Or at the discretion of the HOD English

Qualifications

NCEA Level 3 (UE Approved)

Assessment

3 compulsory Internal Achievement Standards (10 credits)

2 compulsory External Achievement Standards (8 credits)

Cost

Course Description

The key focus of this course is written texts. This course builds upon the skills and knowledge gained during Level 2 but includes new areas of study. Students will engage in reading texts, both NZ and international, and developing their personal writing styles. This course can be catered to the student, to suit the scientific mind or the artistic one to complement future pathways. Scholarship content will also be included.

L3ENV English

Entry Requirements

17 credits in NCEA Level 2 English:

- Must have achieved Merit or Excellence in Achievement Standard 91101: Writing Portfolio
- Must have achieved Merit or Excellence in Achievement Standard 91105: Info Lit
- Must have achieved Merit or Excellence in at least ONE External Standard Or at the discretion of the HOD English

Qualifications

NCEA Level 3 (UE Approved)

Assessment

3 compulsory Internal Achievement Standards (10 credits)

2 compulsory External Achievement Standards (8 credits)

Cost

Course Description

The key focus of this course is visual texts. This course builds upon the skills and knowledge gained during Level 2 but includes new areas of study. Students will engage in viewing texts, both NZ and international, and developing their personal writing styles. This course can be catered to the student, to suit the scientific mind or the artistic one to complement future pathways. Scholarship content will also be included.

L3ENB English

Entry Requirements

13 English credits in NCEA Level 2 English:

- Must have achieved Achievement Standard 91101: Writing Portfolio
- Must have achieved one other Internal Assessment Standard
- Must have achieved at least ONE External Standard Or at the discretion of the HOD English

Qualifications

NCEA Level 3 (UE Approved)

Assessment

4 Internal Achievement Standards (16 credits)

1 External Achievement Standard (4 credits)

Cost

Course Description

This course builds upon the skills and knowledge gained during Level 2 and is predominantly an internally assessed course. There is a lot of scope for student choice. Shakespeare is not studied in this course. There is an opportunity for an external assessment for those who wish.

English for Speakers of Other Languages

Entry Requirements

At the discretion of the Teacher in Charge of ESOL. ESOL students who still have to pass at least one of their Literacy standards.

Qualifications

NCEA Level 2 or 3

Level 1 Literacy

Assessment

English Language Unit Standards Levels 2 and 3

Level 1 Literacy Unit Standards

Cost

Course Description

The course is designed to further develop the listening, speaking, reading and writing skills of English Language Learners. Emphasis is given to the academic language used in senior subjects. Students are also supported to gain their Literacy credits.

HEALTH AND PHYSICAL EDUCATION

Physical Education

Entry Requirements

14 credits or more from NCEA Level 2 Physical Education or at the discretion of the Head of Department Physical Education with good supporting grades in NCEA Level 2 English and Science(s).

Qualifications

NCEA Level 3 and NZ Scholarship (optional) and a UE Approved subject

Assessment

100% internally assessed

Cost

May involve costs up to \$120

Course Description

Physical Education is the study of human movement and the role and significance of physical activity in society. It takes knowledge of the human body and applies it to a number of sporting contexts, as well as personal development. This course leads to many opportunities in sport, recreation, leisure and the health industry. A large number of our students use this subject as a springboard to medicine, physiotherapy, occupational therapy, sport science and teaching. This course is theory orientated with practical work supporting theory work.

L3PED will involve extending concepts and principles learned at NCEA Level 2. Further, it provides an opportunity to apply this knowledge to performance improvement in self or others.

Students at NCEA Level 3 will be expected to:

- Plan, implement and review a personalised training programme based on a selected, assessed, practical activity
- Investigate the role of physical activity as a young person and how this may impact on future involvement in physical activity
- Appraise skill performance using principles of biomechanics and functional anatomy
- Examine a current physical activity, trend or issue impacting on New Zealand society
- Participate in two practical opportunities assessed against National practical standards.

LANGUAGES

French

Entry Requirements

3 NCEA Level 2 French Achievement Standards including at least one External Achievement Standard

Qualifications

NCEA Level 3 (UE Approved)

NZ Scholarship (optional)

Assessment

3 Internal Achievement Standards (14 credits)

2 External Achievement Standards (10 credits)

Cost

Grammar Book \$35 (if not previously purchased)

Course Description

The course is divided into 4 main skill areas in preparation for the NCEA assessments; reading, writing, listening and speaking. There is a set list of vocabulary and grammar. For Level 3, topics include exploring Francophone countries, plans for future study and employment, environment, film study, giving and receiving advice, including health issues. . There is also the opportunity to participate in speech competition, Education Perfect Language Championships, and the French exchange.

Japanese

Entry Requirements

3 NCEA Level 2 Japanese Achievement Standards including at least one External Achievement Standard

Qualifications

NCEA Level 3 (UE Approved)

NZ Scholarship (optional)

Assessment

3 Internal Achievement Standards (14 credits)

2 External Achievement Standards (10 credits)

Cost

Course Description

This course will cover more vocabulary, advanced sentence structures and kanji using the four language skills; listening, reading, writing and speaking. Possible topics which will be studied are Land & People, Travel & Tourism, Fairy Tales, Environmental Issues, Tūrangawaewae and Hapori.

Spanish

Entry Requirements

3 NCEA Level 2 Spanish Achievement Standards including at least one External Achievement Standard.

Qualifications

NCEA Level 3 (UE Approved)

NZ Scholarship (Optional)

Assessment

3 Internal Achievement Standards (14 credits)

2 External Achievement Standards (10 credits)

Cost**Course Description**

Students will continue with their study of Spanish from Level 2, learning a wider variety of vocabulary and grammar. The course is divided into four main skill areas in preparation for the NCEA assessments; reading, writing, listening and speaking. At Level 3 we study topics such as The Environment, Different Destinations in the Hispanic World, Film and Trends. There is also the opportunity to participate in STANZA National Speech Competition, Education Perfect Language Championships and a Spain Trip with a home stay for a month if possible.

Te Reo Māori

Entry Requirements

2 NCEA Level 2 Te Reo Māori Achievement Standards including at least one External Achievement Standard

Qualifications

NCEA Level 3 (UE Approved)

NZ Scholarship (optional)

Assessment

2 Internal Achievement Standards (12 credits)

2 External Achievement Standards (12 credits)

Te Reo Māori Level 3 Unit Standards (optional) (20 credits)

Cost

Course Description

We aim for students being able to demonstrate their ability to

- speak Te Reo Māori confidently and appropriately
- comprehend written Te Reo Māori
- research, analyse, speak and write their thoughts on Te Ao Māori and Tikanga Māori - Wairua Māori permeates all levels of Tikanga (Living World and Culture of Māori, Past, Present and Future)
- write Te Reo Māori accurately and appropriately

MATHEMATICS AND STATISTICS

Mathematics with Calculus

Entry Requirements

- AS91261 (2.6) Algebraic Methods – Merit or Excellence
- And at least two of:
 - AS91262 (2.7) Calculus – Merit or Excellence
 - AS91269 (2.2) Graphs – Merit or Excellence
 - AS91259 (2.4) Trigonometry – Merit or Excellence

Note: Summative and Achievement Standard “passes” may be obtained in the summative assessment, the September exams or in the NZQA exam in November.

Qualifications

NCEA Level 3 Calculus

UE Approved Subject

Assessment

Internals: Systems of Equations (3.15), Trigonometry (3.3) - 7 credits

Externals: Complex Numbers (3.5), Differentiation (3.6), Integration (3.7) - 17 credits

Cost

Write on workbooks approximately \$30

Course Description

About half the course deals with Calculus. Differentiation and Integration are developed and extended and the skills learned are applied to problem solving. It is essential to have a graphics calculator. The other half of the course is made up of algebra, complex numbers, systems of equations and trigonometry.

L3STA - Statistics A

Entry Requirements

- AS91267 (2.12) Probability – Merit or Excellence
- AS91261 (2.6) Algebraic methods – Achieved, Merit or Excellence or
- AS 91262 (2.7) Calculus – Achieved, Merit or Excellence
- Other Summative: 13 Credits total at Achieved, Merit or Excellence

Note: Summative and Achievement Standard “passes” may be obtained in the summative assessment, the September exams or in the NZQA exam in November.

Qualifications

NCEA Level 3 Statistics

UE approved subject

Assessment

Internals: Bivariate Data (3.9), Experimental Data (3.11), Linear Programming (3.2) - 11 credits

Externals: Probability Concepts (3.13), Probability Distributions (3.14) - 8 credits

Cost

Write on workbooks approximately \$30

It is necessary to have a graphics calculator.

Course Description

This is a subject for students who need Mathematics to support their studies in biological, health and social sciences, medicine, commerce or any field where the collection and interpretation of data is important. It is possible to do both Statistics A and Calculus.

Four of the five Achievement Standards are made up of probability and statistics topics. The remainder are based on Mathematics.

L3STB - Statistics B

Entry Requirements

- AS91267 (2.12) Probability – Merit or Excellence
- Other Summative: 11 Credits total at Achieved, Merit or Excellence

Note: Summative and Achievement Standard “passes” may be obtained in the summative assessment, the September exams or in the NZQA exam in November.

Qualifications

NCEA level 3 Statistics

UE approved subject

Assessment

Internals: Bivariate Data (3.9), Experimental Data (3.11), Simultaneous Equations (3.15), Linear Programming (3.2)- 14 credits

Externals: Probability Distributions (3.14) - 4 credits

Cost

Write on workbooks approximately \$15

It is essential to have a graphics calculator.

Course Description

This is a subject for students who need Mathematics to support their studies in biological, health and social sciences, medicine, commerce or any field where the collection and interpretation of data is important. May be a substitute class if there is a timetable clash and Statistics A and Calculus are selected courses.

The course content is similar to that in Statistics A. It is essential that students in this course have an interest in studying statistics. This course is a combination of Statistics and Mathematics.

SCIENCE

Biology

Entry Requirements

Recommended 12 Credits Level 2 Biology OR at the discretion of Teacher in Charge. It is recommended students have passed either AS91157 or AS91159.

Qualifications

NCEA Level 3 (UE Approved)

Assessment

2 External Achievement Standards (9 credits)

3 Internal Achievement Standards (10 credits)

UE Literacy: Reading (22 credits), Writing (16 credits)

Cost

Students will be required to pay for write on course materials

Course Description

Biology is for you if you are interested in living things (including humans) and wish to learn more about how they function and interact or if you wish to follow a career in Nursing, Forestry, Agriculture, Veterinary Science, Fisheries, Medicine, Conservation, Biochemistry, Dentistry, Psychology, Health Sciences or many others.

A variety of topics are covered including, Responses of Plants and Animals, How an animal maintains a stable environment, Evolutionary Processes leading to Speciation, Biological Investigation, and Manipulations of Genetic Transfer and its Biological Implications.

The course builds on skills and knowledge gained during Level 2 but also includes many new areas. Biology scholarship content will also be covered in additional tutorials.

Chemistry

Entry Requirements

Recommended 12 credits or more from Level 2 Chemistry including 91164 or 91165 OR at the discretion of Teacher in Charge.

Qualifications

NCEA Level 3 (UE Approved)

Assessment

Three Internal Assessments (AS91388, AS91389 and AS91393) and Two External Assessments (AS91390 and AS91392)

Cost

Students will be required to pay for write on course materials.

Course Description

Throughout the history of the human race, people have struggled to make sense of the world around them. Through Chemistry we have gained an understanding of the matter which makes up our world and of the interactions between particles on which our world depends.

Modern society looks to chemists to produce, amongst many things, medicines to heal, pesticides and fertilisers to ensure better crops and chemicals for the many synthetic materials produced in the 21st century. It also looks for an academic understanding of how matter works and how the environment might be protected from the damage humans have caused. Fortunately Chemistry holds many of the answers.

The curriculum focus of this course includes atomic structure and bonding; energy in reactions; oxidation and reduction; equilibria and acids and bases; organic compounds, and the quantitative analysis of substances to measure concentration levels of different chemicals.

This course is intended to further develop the understandings of chemical concepts, knowledge and skills from Level 2 Chemistry. It has the additional aim of preparing students for tertiary study in this subject.

Physics

Entry Requirements

Recommended 9 credits or more from Level 2 Physics OR at the discretion of Teacher in Charge. Students should have passed either AS91171, 91173 or 91170.

Qualifications

NCEA Level 3 (UE Approved)

Assessment

3 Internal Achievement Standards (10 credits)

2 External Achievement Standards (maximum 10 credits)

Cost

Write on workbooks approximate cost

Course Description

In Physics you will learn about the world of matter and energy from a scientific point of view. If you are thinking about a career in aviation, engineering, electronics, health sciences, telecommunications, surveying, architecture, pharmacy, and so on, then Physics could be an important subject for you.

- Demonstrate understanding of wave systems – builds on the work done at Level 2 with many applications to sound, music and light
- Demonstrate understanding of mechanical systems – parallels much of the straight line motion done at Level 2 with rotational motion

- Demonstrate understanding of Nuclear and Quantum Physics – covers much of the classic theories of Modern Physics
- Demonstrate understanding of electrical systems – provides a deeper look at electrical components and their function

Science

Entry Requirements

Recommended 9 Credits from Level 2 Science or the other Level 2 Science courses (Chemistry, Biology or Physics) AND Literacy Co-Requisite AND Numeracy Co-Requisite OR at discretion of the Head of Department.

Qualifications

NCEA Level 3 (UE Approved)

Assessment

Five Internal Assessments (AS91389, AS91410, AS91411, AS91415 and AS91527)

Cost

Course Description

Science is an essential part of modern life. This course will help students to understand the world better. It is the basis of a huge range of career options.

The Level 3 course is constructed for students interested in going into courses that lead into the trades or other courses run by Institutes of Technology. It will allow them to keep their options open for vocational career planning and will help them continue to develop their scientific literacy. Much of this course will be focussed on socio-scientific issues that are faced in everyday life.

The curriculum focus of this course includes a mixture of Biology, Chemistry, Physics and Earth and Space Science.

SOCIAL SCIENCES

Accounting

Entry Requirements

Minimum of 12 credits from Level 2 Accounting (including AS 2.3)

OR entry with discretion from Teacher in charge, Accounting.

Qualifications

NCEA Level 3 (UE approved)

UE Reading (5 credits) OR Writing (5 credits)

Assessment

3 Internal Achievement Standards (13 credits)

2 External Achievement Standards (9 credits)

Cost

Students will be required to purchase write-on workbooks at a cost of approx. \$40.

Course Description

This course concentrates on the accounting processes for the preparation of Partnership and Company reports. This includes such topics as Cash Flow planning, Budgeting and Job Costing.

Classical Studies

Entry Requirements

12 credits from Level 2 NCEA Classical Studies.

If new to the subject at Level 3, you need 12 credits from Level 2 NCEA History or Media Studies, or at the discretion of the Head of Department.

Qualifications

NCEA Level 3 (UE Approved)

Assessment

2 Internal Achievement Standards (12 credits)

3 External Achievements Standards (14 credits)

UE Literacy: Reading (26 credits), Writing (14 credits)

Cost

Course Description

Classical Studies is the study of the civilisations of Greece and Rome; two societies that are the 'cradles of Western Civilisation' and thus have a direct influence on modern New Zealand society.

Students will explore how social, political, artistic, and technological aspects of the classical world influenced the lives of ancient Greeks and Romans. They will also explore the links and lasting influences between the ideas and values of ancient Greeks and Romans and other cultures, analysing why they have enduring influence.

Topics from the following may be studied:

- Alexander the Great: He was one of the most effective leaders of all time. Students will analyse his leadership and effects on later societies as he conquered vast areas of land.
- Roman Art and Architecture: Some of the world's most memorable architecture was built in the Roman Empire. The features and propaganda behind these buildings will be analysed.
- Classical Literature: Students may be given an ancient Greek or Roman piece of literature to examine, identifying the ideas and values of the classical world.

Economics

Entry Requirements

12 credits in Level 2 Economics or none if beginning the subject (at the discretion of the teacher in charge). Students who have demonstrated a high level of competence in Level 2 Mathematics are more likely to succeed.

Qualifications

NCEA Level 3 (UE Approved)
ECON 199*

Assessment

- 2 Internal Achievement Standards (10 credits)
- 3 External Achievement Standards (14 credits)

Cost

Students will be asked to purchase write-on workbooks at a cost of around \$35

Course Description

The course takes an analytical approach to economic theory and is divided into three sections.

- Resource Allocation via the Market System—how the market works to provide the optimum allocation of resources.
- Resource Allocation via the Public Sector—where the market fails and the role of Government.
- Aggregate Economic Activity and Policy—the impact of Government action on an economy-wide basis.
- There may be a possibility for the top students to study a stage one University paper through Canterbury University. The study would be concurrent and would involve extra costs. See Mr Redmond for more information.

Geography

Entry Requirements

At the discretion of the Head of Department

Qualifications

NCEA Level 3 (UE Approved)

University Entrance and New Zealand Scholarship

Assessment

3 Internal Achievement Standards (11 credits)

1 Optional Achievement Standard (3 credits)

2 External Achievement Standards (8 credits)

Cost

Optional Field trip, price to be confirmed

Course Description

Level 3 Geography applies the concepts of Environment, Patterns, Processes, Perspectives, Interaction, Change and Sustainability to help students make sense of humans relationship with the environment and how that changes over time.

The topics studied are:

- Decision-Making – Burt Munro Festival Case Study
- Sustainability/Local Issue – Milford Sound
- Coastal Processes – Colac Bay/Curio Bay
- Global Issue – The Diamond Trade

History

Entry Requirements

12 credits from NCEA Level 2 History/Geography/Classics (must include at least one external Achievement Standard).

If new to subject at Level 3 entry is at discretion of the Head of Department.

Qualifications

NCEA Level 3 (UE Approved)

Assessment

3 Internal Achievement Standards (15 credits)

2 External Achievement Standards (10 credits)

Cost

Course Description

The topics studied at Year 13 are predominantly overseas based topics, and focus on analysis of the social, political and economic aspects of complex historical events and the related historical ideas. The topics will also be used to equip you with the skills and knowledge you will need to complete the Achievement Standards.

There are three Internal Achievement Standards:

- Research analysis of an historical event based on primary evidence (5 credits)
- Communication of the historical research topic (5 credits)
- Analysis of historical perspectives relating to a 'contested' event (5 credits)

There are two External Achievement Standards:

- An essay analysing the causes and consequences of an historical event (6 credits)
- A long answer paper analysing historical sources (4 credits)

Media Studies

Entry Requirements

Priority entry will be given to students who have completed Year 12 Media Studies (minimum of 13 Level 2 Media Studies credits).

Students who have not studied this subject previously may pick it up at Year 13 if places are available and at the discretion of the Teacher in Charge.

Qualifications

NCEA Level 3 (UE Approved)

Assessment

3-4 Internal Achievement Standards (13-16 credits)

1-2 External Achievement Standard (4 credits)

Including: UE Literacy Writing (4 credits)

Cost

Potential Field trip to Dunedin for Media Matters day (approx \$45 - \$50)

Course Description

This course is an extension of the Year 12 course. It is both practical and theory based and expands on concepts studied in Year 12

Course content may include:

- Researching a development in the media.
- Analysing the relationship between genre and a society (e.g. the Slasher genre and 1980s America, Modern Sci-fi and Risk society)
- Planning, filming and creating a documentary/mockumentary.
- Examining media representation of an aspect of New Zealand society
- Writing a Media text (e.g. reviews, scripts etc.)

Tourism

Entry Requirements

Students are able to enter Level 3 Tourism without completing this subject in Level 2 at the discretion of the Teacher in Charge. However, priority will be given to those students who completed Level 2 Tourism to a satisfactory level. There is a class trip to Queenstown to explore and participate in tourist activities.

Qualifications

Credits can count towards NCEA Level 3 but not University Entrance.

Assessment

Fully internal Unit Standards course (30 credits).

Cost

Service IQ Course Fee \$30.

Course Description

- World Travel Geography
- Describe & Promote a NZ Tourism Destination
- Demonstrate Knowledge of the Tourism Industry
- Destination Pacific Islands
- Māori Tourist Attractions
- Read Texts to Complete Research
- Speak to an Audience

TECHNOLOGY - Food and Fabrics

Culinary Arts

Entry Requirements

Level 2 Culinary Arts - US 167 & 13285, or HOD approval

Students must be capable of undertaking guided reading and research, and have competent written skills.

All parts of the course are compulsory including written tasks, and a high standard of food preparation and presentation skills. A positive and co-operative attitude is essential, and students need to be able to work under time pressure when preparing food.

Qualifications

Level 3 NCEA

Assessment

Fully internal

Level 3 Hospitality Industry Unit Standards - 16 credits

(Cookery, Food Safety, Food and Beverage Service)

16 credits

Cost

\$250 per year for food consumed or taken home.

\$50 write on workbooks - to be issued in class.

A set of highlighter pens will be required.

Chef whites - pants, jacket and apron will be provided for practical classes at no cost.

Course Description

Culinary Arts will build on the cookery skills and knowledge from Level 2. Creative food presentation to an industry standard is a requirement for all food preparation activities. Catering opportunities both within and occasionally outside of school, offer valuable real-life experiences and enrich the learning programme.

Topics include: Preparation and baking of cakes, sponges and scones in a commercial kitchen; Culinary products, terms and food preparations; Managing food contamination hazards and control methods in a food establishment.

Learning consists of written and practical work, with both areas assessed. For success students must be able to undertake guided reading and research, and use this to give clear written answers in assessments.

This course will be of interest to students wishing to follow a career in the area of food and cookery or continue study at Tertiary level to train as a chef. Competitions offer extension and the opportunity to express creative talents.

Those students looking towards a practical career working with food may consider taking Culinary Arts either in conjunction with Food and Nutrition or as an alternative. Food and Nutrition has an academic focus.

Fashion and Design

Entry Requirements

Level 2 Fashion and Design with a minimum of 10 credits or approval from the Head of Department

Qualifications

NCEA Level 3 (UE Approved)

New Zealand Scholarship in Technology

Assessment

Level 3 Technology Achievement Standards

2-3 Internal (12-18 credits)

1 External (4 credits) optional

A minimum of 14 credits is required to count towards University Entrance.

Cost

\$35 for take home materials

Students will also need to supply fabric for projects.

Course Description

This course revolves around a major design assignment that requires students to:

- Draft a pattern to interpret a design for a garment
- Implement complex procedures and develop a prototype to make a specified product
- Explore techniques and different media for applied design.

They will also look at the development of a material designed to enhance the performance of a product.

This course is flexible to allow students to follow an area of interest and select achievement standards to match.

In this subject students learn how to use the design process to develop and produce garments, outfits or textile products for specific purposes. Students will develop knowledge and skills in planning, design, fashion drawing, pattern making, fit, construction, textiles, and creativity and in developing a portfolio. Design competitions offer extension and an opportunity to express creative talents. Beyond school there are several degree and diploma courses at Universities and Polytechnics. This subject leads on to careers in Fashion and Design, marketing, business, product development and textile research.

Food and Nutrition

Entry Requirements

2 Internals and 1 External from Level 2 Food and Nutrition or Head of Department approval

Students taking this academic course need to be able to undertake independent research and have very good written communication skills.

Qualifications

NCEA Level 3 (UE Approved)

New Zealand Scholarship

Assessment

3 Internal Achievement Standards (15 credits)

1 External Achievement Standard (4 credits)

Cost

\$130 per year for food consumes or taken home.

Course Description

This course consists of 4 units of learning related to food, nutrition, health and well-being:

- Food advertising and well-being
- Nutritional issues affecting New Zealand society
- Ethical dilemmas about food
- Influences of multinational food corporations on eating patterns

Practical work is an integral part of this course.

Food and Nutrition develops knowledge and skills about food choices and food preparation to enhance well-being and the health of people throughout their lives. This subject leads to careers in health, food and nutrition, food technology and catering. Various avenues for study at tertiary level are possible.

Those students looking towards a practical career working with food may consider taking Culinary Arts either in conjunction with Food and Nutrition or as an alternative.

Food and Nutrition has an academic focus.

TECHNOLOGY - Digital

Digital Technologies: Beginners

Entry Requirements

Open entry but a reasonable computer knowledge is needed. The course focuses on a range of software applications and develops good skills for employment.

Qualifications

NCEA Level 3 (Unit Standards based) NOT UE approved

Assessment

Fully internally assessed - 3 Unit Standards (15 credits)

Cost

Course Description

Students in New Zealand need opportunities to develop knowledge and skills with Digital Technologies so they are equipped to respond to rapid changes in our society. This subject has the potential to strengthen the appeal to students of Digital Technologies as a specialist subject and to connect students with a range of enterprising and innovative employment opportunities and tertiary pathways.

This course covers Word Processing, Desktop Publishing, and Database skills in a business situation.

Note: This course does not contribute to UE.

Digital Technologies: Media

Entry Requirements

Study of this subject at Level 2 is preferred. Entry is at the discretion of the Teacher in Charge.

Qualifications

NCEA Level 3 (Assessment Standards based) and UE Approved

Assessment

20 credits (4 internals, 1 external)

Cost

Course Description

This is your final year to complete your senior studies in Digital Technologies. You will apply complex procedures and advanced problem-solving to create a major digital outcome. Both the Media and Programming streams share common external assessments, highlighting the core connections between these two fields.

Digital Technology Media: Use a software package of your choice to produce a sophisticated, complex digital media outcome. The course will expand to more complex database techniques using Microsoft Access, a key skill for a wide range of media projects.

The assessment for this course is NCEA Level 3 (Assessment Standards-based) and UE Approved, 20 credits (4 internal, 1 external). There is also the opportunity to sit this subject for Scholarship.

Digital Technologies: Programming

Entry Requirements

Study of this subject at Level 2 is preferred. Entry is at the discretion of the Teacher in Charge.

Qualifications

NCEA Level 3 (Assessment Standards based) and UE Approved

Assessment

29 credits (6 internals, 2 externals)

Cost**Course Description**

This is your final year to complete your senior studies in Digital Technologies. You will apply complex procedures and advanced problem-solving to create a major digital outcome. Both the Media and Programming streams share common external assessments, highlighting the core connections between these two fields.

Digital Technology Programming: Work with a programming language of choice, relational databases, and in-depth computer science concepts.

The assessment for this course is NCEA Level 3 (Assessment Standards-based) and UE Approved, 29 credits (6 internal, 2 external). There is also the opportunity to sit this subject for Scholarship.

TECHNOLOGY - Hard Materials

Design and Visual Communication

Entry Requirements

Open Entry

Qualifications

Contributes to NCEA Level 3 (UE Approved)

Assessment

1 Internal Achievement Standard (6 credits)

2 External Achievement Standards (10 credits)

Cost

Course Description

Design and Visual Communication is a subject where students solve real world design problems. They do this by using a combination of Computer (CAD) drawing and sketching to visually communicate their design thinking.

This is a course where the student will solve design problems. The skills of problem solving and real world constraints are an integral part of solving challenging design problems.

They will have the opportunity to work independently and present their ideas using a variety of Graphics skills that they are comfortable with. These may be computer based, free hand sketches or a combination of both.

Effective presentation and an understanding of how to use a range of skills to arrive at a good design are central to this course.

Design assignments are:

- Small House
- CAD Production Drawings

Hard Materials Design

Entry Requirements

Completed Hard Materials Design Level 2 Course preferred but not essential OR at the discretion of the Head of Department.

Qualifications

Contributes to NCEA Level 3

Unit Standards

Assessment

Fully Internal (20 credits)

Cost

There will be a cost which varies for materials used in take home projects.

Course Description

Hard Materials Design will suit those students who enjoy overcoming design issues. Students will work through a problem solving process which explores the design process and manufacture of high quality solutions.

This course provides students with the opportunity to build on their experience gained at Year 11 and Level 2. Students will select a suitable issue and produce an innovative solution using a range of complex workshop processes. This will be achieved through detailed planning and comprehensive design.

Mechanical Engineering

Entry Requirements

Students would benefit from having completed Level 2 Mechanical Engineering

Qualifications

Contributes to NCEA Level 3

Unit Standards

Assessment

Fully Internal (11 credits)

Cost

Costs of materials used in take home projects (approximately \$120)

\$10 ITO Course fee

Course Description

This course will allow students to develop a sound understanding of basic engineering practices. Qualifications gained through this course may assist students to gain employment or entry to engineering based tertiary courses.

This course would suit students who have an interest in Engineering with an opportunity to further develop their skills both with practical and computer aided fields.

Topics covered:

- Complete 2D/3D computer aided working drawings, parts and assemblies
- Mix of structural, heavy fabrication and machining through individual projects.

OTHER

Literacy

Entry Requirements

This course is best suited for students who are still working towards achieving their Literacy CAAs in Reading and / or Writing.

Qualifications

Working towards Literacy CAAs in Reading and / or Writing in order to be endorsed with NCEA Qualifications when gained at Level 2 and 3.

Assessment

Literacy Reading CAA (5 credits)

Literacy Writing CAA (5 credits)

Cost

Course Description

This course focusses on building confidence and supporting students with literacy fundamentals that support achievement across the curriculum and in life.

This includes:

- The Writing Process: planning, drafting, editing
- Exploring purposes in texts
- Text types
- Structure of texts
- Author Point of View
- Intended Audience
- Identifying and Ordering Main Ideas
- Making Sense of Unknown Words
- Language Features
- Syntax
- Applying learning to a range of reading and writing tasks
- Study Skills - how do I prepare myself for the CAAs?



Mission Statement

**Our Mission is to equip all
our students to create the best
possible future for themselves
and their world.**



Vision

Tirohanga

Our vision is to foster healthy all-round development and personal success in an environment informed by the principles of manaakitanga.

This means helping young people build their personal identity and hauora in a context of strong communal values (The Hargest Way).

It involves encouraging participation, connectedness and whanaungatanga through a range of service, cultural, sporting and leadership opportunities.

Personal success is fostered by a strong academic focus and the pursuit of excellence in its broadest sense, through responsive, supportive programmes and staff working on the principles of ako.

We aspire to provide education of superb quality, in partnership with our wider community.



The James Hargest College core values are:

We respect each other

Ka manaakitia tētahi ki tētahi

We treat all people fairly

Ka mihia tika te iwi katoa

We are honest

Tino mahi pono mātou

We work hard

Tino kaha tō mātou mahi

We are responsible for all we do

*Ka whakautu tūtika mātou ki ngā
kaupapa katoa*

We take care of our environment

Tiakina tō mātou nohonga taiao

Hargest Way Reports are sent home every three weeks. They report on the following values:

Effort looks like:

Completes work to a high personal standard in a timely manner. Brings all equipment to class.

Demonstrates a self disciplined attitude to all activities.

Persists when learning is difficult.

Actively listens to teacher explanations and instructions.

Participates in group and class activities.

Respect looks like:

Shows respect for self, others and all property.

Treats others fairly, listens and responds to different opinions respectfully.

Is honest and takes responsibility for all actions.

Uses appropriate and respectful language.

Is on time and wears the uniform correctly.

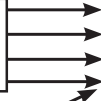
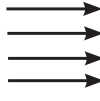
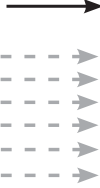
Subject Codes 2027

ACC	Accounting	FDN	Fashion and Design
ARD	Visual Arts: Design (Lev 2, 3)	FNT	Food and Nutrition
ARM	Visual Arts: Printmaking (Lev 2, 3)	FRE	French
ARO	Visual Arts: Photography (Lev 2, 3)	GAT	Gateway (Lev 2, 3)
ARP	Visual Arts: Painting (Lev 2, 3)	GEO	Geography
ART	Visual Arts: (Y11)	HEA	Health (Lev 2)
BCN	Building and Construction (Lev 2)	HIS	History
BIO	Biology (Lev 2, 3)	HMD	Hard Materials Design
BUS	Business Studies (Lev 2)	HMT	Hard Materials Trade (Y11)
CHE	Chemistry (Lev 2, 3)	HPE	Health and Phys Ed (Y11)
CHD	Child Care & Development (Lev 2)	JPN	Japanese
CLS	Classical Studies (Lev 2, 3)	MAC	Calculus (Lev 3)
CIE	Cambridge IGCSE English (Year 10, 11)	MAO	Maori
CIG	Cambridge IGCSE Global Perspectives (Year 10, 11)	MAT	Mathematics (Yr 9, 10)
CIM	Cambridge IGCSE Mathematics (Year 10, 11)	MEN	Mechanical Engineering (Lev 2, 3)
CIS	Cambridge IGCSE Science (Year 10, 11)	MED	Media Studies
CUL	Culinary Arts	MUS	Music Studies
CSC	Cambridge AS Chemistry (Year 12)	MXA	Mathematics A (Lev 2)
CSE	Cambridge AS English (Year 12)	MXB	Mathematics B (Y11, Lev 2)
CSB	Cambridge AS Biology (Year 12)	MXG	Mathematics G (Y11, Lev 2)
CSP	Cambridge AS Physics (Year 12)	MXN	Mathematics Numeracy (Y11)
CSM	Cambridge AS Mathematics (Year 12)	MXT	Mathematics (Y11)
DGB	Digital Technologies (Beginners) (Lev 2, 3)	ODR	Outdoor Education (Lev 2)
DGM	Digital Technologies Media	PED	Physical Education (Lev 2, 3)
DGP	Digital Technologies Programming	PHY	Physics (Lev 2, 3)
DGT	Digital Technologies (Year 9, 10)	SCC	Science Callaghan (Y11)
DRA	Drama	SCM	Science MacDiarmid (Y11)
DVC	Design & Visual Communication	SCW	Science Wiffen (Y11)
ECO	Economics	SCI	Science (Lev 2, 3)
ELE	Electronics (Lev 2)	STA	Statistics A (Lev 3)
ENP	English - Psychology of Self (Y11)	STB	Statistics B (Lev 3)
ENS	English - Society Explored (Y11)	SPA	Spanish
ENT	English - Technology, Machines and the Future (Y11)	TOU	Tourism (Lev 2, 3)
ENA	English A (Lev 2)	TRA	Transition (Lev 2)
ENB	English B (Lev 2, 3)		
ENC	English C (Lev 2)		
ENW	English Written (Lev 3)		
ENV	English Visual (Lev 3)		
ENL	English Literacy		
ESL	English as a Second Language		
ENG	English (Year 9,10)		

Learning pathways

All subjects in *red* are compulsory

This is a guide only. See our annual subject booklets for senior subject pre-requisites. (Note: courses may be combined or not run if there are insufficient numbers).

	Year 9 & 10	Year 11	NCEA Level 2	NCEA Level 3
Art (Visual Arts)	Art	Art 	Art Design Art Painting Art Photography Art Printmaking 	Art Design Art Painting Art Photography Art Printmaking
Drama	Drama	Drama 	Drama 	Drama
English	English ESOL	English Psychology of Self English Society Explored English Technology, Machines and the Future ESOL  	English A English B English C  ESOL	English Written A or English Visual A English B ESOL
Food & Fabric	Fashion & Design Food & Nutrition	Culinary Arts  Fashion & Design Food & Nutrition 	Culinary Arts Childcare & Development Fashion & Design Food & Nutrition 	Culinary Arts Fashion & Design Food & Nutrition
Languages	French Japanese Spanish Te Reo Māori	French Japanese Spanish Te Reo Māori 	French Japanese Spanish Te Reo Māori 	French Japanese Spanish Te Reo Māori
Mathematics & Statistics	Mathematics	Mathematics T Mathematics G Mathematics B Mathematics N 	Mathematics A Mathematics G Mathematics B 	Calculus Statistics A Statistics B
Music	Music	Music 	Music 	Music
Health & Physical Education	Health & Physical Education	Health & Physical Education 	Physical Education Health Education 	Physical Education
Science	Science	Science (MacDiarmid) Science (Wiffen)  Science (Callaghan) 	Biology Chemistry Physics Science 	Biology Chemistry Physics Science
Social Sciences	Social Studies	Accounting  Economics Geography History Media Studies 	Accounting Business Studies Economics Geography History Media Studies Tourism Classical Studies 	Accounting - Economics Geography History Media Studies Tourism Classical Studies
Technology	Design and Visual Communication Digital Technologies Hard Materials Design	Design and Visual Communication  Digital Technologies Media Digital Technologies Programming Digital Technologies Design Hard Materials Design Hard Materials Trade 	Design and Visual Communication Digital Technologies (Beginners) Digital Technologies Media Digital Technologies Programming Electronics Hard Materials Design Building & Construction Mechanical Engineering 	Design and Visual Communication Digital Technologies (Beginners) Digital Technologies Media Digital Technologies Programming Hard Materials Design Mechanical Engineering
Other		Literacy	Outdoor Education Transition Skills Literacy	Literacy

Key

leads to and is a prerequisite



leads to but is not a prerequisite

