



**JOHN PAUL II  
HIGH SCHOOL**

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**SENIOR  
COURSE  
BOOKLET**

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**2019**

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**The Mission Statement  
of  
John Paul II High School**

*John Paul II High School offers families a comprehensive education in a school culture which nurtures and encourages individuals to achieve to their full potential in personal academic excellence, personal growth, and life in faith in accordance with the values of Jesus Christ and Catholic tradition.*

# Course Booklet

This booklet is to inform students and parents of the general subject choices available to them. It allows students to see which subjects are available at Years 11, 12 & 13.

## Course Structure

### *Year 11*

All students are expected to study Religious Education, English, Mathematics and Science. They then choose 2 other subjects from the list provided.

### *Year 12*

All students are expected to study Religious Education, English or English –Alternative, plus four other subjects from the list provided in Years 11 & 12 or in exceptional circumstances, Year 13.

### *Year 13*

Only Religious Education is compulsory. Five other subjects must be chosen from the list in Years 11, 12 & 13

## Further Information

Information about subjects may be obtained from the subject teacher.

When choosing a course, you must consider the following:

- Your own subject interest
- Your preferred job/career.
- Do you hope to go to Polytechnic/University?

There is a section on the Option Sheet for students to enter their Career Goal and this will be taken into consideration when classes are finalised. Mrs Molloy is able to give you information about your career/job and what qualifications you require.

### John Paul II High School: Course Progression Flowchart

Year 9	Year 10	Year 11 (NCEA Level 1)	Year 12 (NCEA Level 2)	Year 13 (NCEA Level 3)
Religious Education (9RED)	Religious Education (10RED)	Religious Education (11RED)	Religious Education (12RED)	Religious Education (13RED)
English (9ENG)	English (10ENG)	English (11ENG)	English (12ENG)	English (13ENG)
		English Alternative (11EALT)	English Alternative (12EALT)	
Mathematics (9MAT)	Mathematics (10MAT)	Mathematics A (11MATA)	Mathematics (12MAT)	Calculus 13MAC
		Mathematics B (11MATB)	Mathematics and Finance (12MAF)	Statistics 13MAS
Science (9SCI)	Science (10SCI)	Science (11SCI)	Biology (12BIO)	Biology (13BIO)
			Chemistry (12CHE)	Chemistry (13CHE)
			Physics (12PHY)	Physics (13PHY)
Social Studies (9SOS)	Social Studies (10SOS)	Geography (11GEO)	Geography (12GEO)	Geography (13GEO)
		Economics (11ECO)	Economics (12ECO)	Economics (13ECO)
		History (11HIS)	History (12HIS)	History (13HIS)
Physical Education (9PED)	Physical Education (10PED)	Physical Education (11PED)	Outdoor Education (12OED)	
Health (9HLT)	Health (10HLT)			
Art (9ART)	Art (10ART)	Art (11ART)	Art (12ART)	Painting (13PTG)
			Photography(12PHO)	Printmaking (13PRI)
Computing (9COM)	Computing (10COM)	Computing (11COM)	Computing (12COM)	Computing (13COM)
Electronics (9ELE)				
Drama (9DRA)	Drama (10DRA)	Drama (11DRA)	Drama (12DRA)	Drama (13DRA)
Graphics (9GRA)	Graphics (10GRA)	Graphics (11GRA)	Graphics (12GRA)	Graphics (13GRA)
Agriculture Correspondence				
Horticulture (9HRT)	Horticulture (10HRT)			
Japanese (9JAP)	Japanese (10JAP)	Japanese (11JAP) (12JAP) (13JAP)		
Music (9MUS)	Music (10MUS)	Correspondence		
Te Reo Maori (9MAO)	Te Reo Maori (10MAO)			
Biotechnology (9BTE)	Food Technology (10FTE)	Home Economics (11HEC)	Home Economics (12HEC)	Home Economics (13HEC)
Eating for Health (9EHT)		Food Technology	Food Technology	Food Technology
Technology-Soft Materials (9TSM)	Technology-Production & Processes (10TPP)	Fabric Technology	Fabric Technology	Fabric Technology
Technology-Hard Materials (9THM)	Technology-Hard Materials (10THM)	Technology (11TEC)	Technology (12TEC)	Technology (13TEC)

## Other External Subjects

### Te Kura (Correspondence School)

Students can choose a subject that the school does not offer or is unable to offer due to low numbers.

All students must be given special permission to take these courses by the Principal and by Te Kura (Correspondence School).

Only in extraordinary circumstances will permission be given for a student to do two correspondence subjects.

Some of the courses that have been taken in previous years have been:

- Music
- Agriculture/Hort
- French
- Spanish
- Maori
- Legal Studies
- German
- History
- Geography
- Classics

## Video Conferencing Courses

These courses are delivered via the audio/visual suite and involve the student attending a weekly live session. Students are expected to keep up with the course between sessions.

Some of the courses that have been offered are:

- Spanish
- History of Art
- History
- Classics
- Level 3 Calculus

If you wish to choose a Correspondence or video conferencing subject please discuss your choice with the Deputy Principal **before** handing in your option sheet.

# STAR, Gateway, Trades Academy

STAR courses are short term and give students the opportunity to 'taste' a career choice before committing themselves to the training necessary. These courses are offered to students at various times during the year. Mrs Cook will advise students when they are available. Some of the areas of interest that have been offered are:

- Child Care
- Tourism
- Health & Safety
- First Aid
- Barista
- KiwiHost
- Food Safety & Handling
- Hairdressing

Gateway Courses are open to students in Years 11, 12 and 13 and run for one year in partnership with various local firms and offer assessment by Unit Standards. Students spend one day each week working with a local business and they only do 5 school subjects instead of 6. This means that they have 4 extra study periods each week which they are expected to use to keep up to date in other subjects and complete bookwork related to their Gateway placement. Information regarding the GATEWAY opportunities is available from Mrs Molloy.

Trades Academy courses are generally of 2 years duration and are run by Tai Poutini Polytechnic. As with Gateway, students spend one day each week out of school and have extra study periods in which to keep up to date in other subjects and complete bookwork related to their Trades Academy course.

Students wishing to take part in Gateway or Trades Academy should speak with Mrs Molloy or the Deputy Principal about options available. Enrolment in either of these programmes requires the approval of the Deputy Principal.

**All students joining the Gateway programme will be expected to do courses in First Aid, Health & Safety and Kiwihost. These courses may run during the school holidays.**

## **Level 1: Literacy and Numeracy requirements for the NCEA Level One Qualification.**

An NCEA qualification (level 1) can be issued to learners who have achieved **80 credits at level 1 or higher including:**

- i. Ten credits from approved standards for literacy skills
- ii. Ten credits from approved standards for numeracy skills.

Literacy is achieved by gaining

- Ten credits from Literacy Unit standards. **OR**
- Ten credits from Achievement standards –available through a range of subjects.

**Numeracy** is achieved by gaining

- Ten credits from the Numeracy Unit Standards. **OR**
- Ten credits from Mathematics Level 1 Achievement Standards or other approved Level 1 Achievement Standards.

### **Level 2 & 3 National Certificates:**

In order to qualify for the award of NCEA Level 2 or Level 3, a student must have satisfied both the Literacy and the Numeracy requirements for Level 1 and gained a total of 80 credits (60 credits at or above the appropriate level).

### **University Entrance**

You will be qualified for entrance to a university in New Zealand if you have obtained **NCEA Level 3 AND** this includes:

- 14 credits at level 3 or higher in each of three approved subjects
- Level 1 Numeracy
- 5 credits in Reading at Level 2 or higher.
- 5 credits in Writing at Level 2 or higher.

**Your teachers will be able to tell you which, are approved subjects according to NZQA.**

## Scholarship

Students in a secondary school have the opportunity to gain a Scholarship.

Scholarship is a monetary award to recognise top students. It does not attract credits nor contribute towards a qualification but the fact that a student has gained a Scholarship appears on the Record of Achievement.

The Scholarship exams enable students to be assessed against challenging standards and are demanding for the most able students in each subject. Scholarship students are expected to demonstrate high-level critical thinking, abstraction and generalisation, and to integrate, synthesise and apply knowledge, skills, understanding and ideas to complex situations.

The cost for Scholarship is an extra \$30 per subject.

The remaining pages in this booklet contain more information on each of the subjects offered in the senior school at John Paul II High School. You will find them in the following order:

- Religious Education
- English
- Mathematics – Statistics, Calculus
- Science- Biology, Chemistry, Physics
- Social Science – Economics, Geography, History
- Art – Painting, Photography, Printmaking
- Technology – Graphics, Home Economics, Computing
- Physical Education and Outdoor Education
- Drama

## Religious Education Department

Religious Education is a compulsory subject at all levels. Year 11,12,13 have three, one hour classes each week. The work builds on topics covered in Years 9 and 10.

### 11 Religious Education 11RED

The theme of this level is *Reverence for Life*. It deals with issues that are relevant to the age and situation of the students.

Assessment is for National Qualifications

**Reverence for Life.** This topic deals with the value of all life, and of human life in particular. It looks at key teachings of the Catholic Church and how they apply to everyday life.

**The Church's Story.** Reformation and beyond. A study of the split in the Church between Catholic and Protestant. It covers the Lutheran, Anglican, Methodist, Calvin and Presbyterian churches as well as investigating the impact of the Council of Trent.

**Conscience/Morality/Values.** Knowing our own values, how they shape our conscience and how we might make morally sound decisions. This also extends work covered in the Health curriculum.

Standards Assessed:

AS90819 Describe key beliefs of a religious tradition

AS90818 Describe key ethical principles of a religious tradition and how they are applied to an issue

AS90817 Describe a significant aspect within the development of a religious tradition

All Standards are internally assessed and worth 6 credits

### 12 Religious Education 12RED

The theme of this level is *Widening Horizons*. It gives the pupils the opportunity to investigate areas of social concern and social justice, as well as an understanding of different world religions.

**Religions of the World:** Pupils research characteristics of different religions and present their findings, identifying the nine dimensions that make up a religion. As part of the assessment for this, students study the four universal human experiences, looking at different religious and cultural expressions associated with death and dying.

**Justice and Peace:** This topic explores some justice and peace issues relevant to contemporary society and culture using Church documents to help make informed decisions.

**Christian Art Architecture and Music.** Students study the contribution of art, architecture and music as expressions of Christian faith from early church times, throughout history, and in the contemporary church. They examine the relationships between theology and expressions of worship in the arts and how these expressions change in different periods.

Standards Assessed:

AS90821 Explain the changes in an expression(s) of a religious tradition

AS90822 Explain how a contemporary social action derives from the ethical principles of a religious tradition.

AS90823 Explain the key beliefs within two religious traditions in relation to a significant religious question.

All Standards are internally assessed and worth 6 credits

### 13 Religious Education 13RED

The theme of this level is *On the Threshold*. It gives the pupils the opportunity to consider issues of current concern in Church and Society. A range of topics are covered in discussions to address student concerns and interests.

**Leadership Training,** mentoring of junior pupils, what defines a leader, service to school, mediation training, preparation for mentoring sessions, icebreaking skills and small group dynamics.

**Current Religious Issues.** A range of topics are covered: – Poverty and Wealth, Changing Role of Women, Bioethics, Creation: the Christian Response, Relationships and Christian Marriage, Work and Leisure, Euthanasia, Death Penalty. Students choose their own topic to write on

### **Sects, Cults and New Religions**

#### **Religion and New Zealand Today.**

Explore the ways people express belief in a higher being. Investigate new religions and how they differ from main stream religions. Analyse the New Zealand Catholic Church and the factors that influence its structure.

**Making Meaning in today's Society.** Explores the reasons people make choices in their lives and where God fits in to these reasons.

**Health Issues.** Relationships since Year 11, Flating and preparing a recipe book, Health base line. Personal Health: Planning for the Future. (time permitting)

Standards assessed:

AS90825: Analyse Religious tradition in Aotearoa New Zealand.

AS90826: Analyse the response of a Religious tradition to a contemporary ethical issue.

AS90827: Analyse key beliefs of a Religious tradition and a secular world view in relation to ultimate questions.

All Standards are internally assessed and worth 6 credits

## English Department

English is compulsory in Year 11 and 12 and optional in Year13. Course placement in Year 11 is made by the HOD based on performance in Year 10.

### 11 English

#### 11ENG

This is an academic English course and leads on to study in Years 12 and 13.

NZQA Assessment – Level 1 Course Endorsement is possible.

The course is chosen from the following:

90849 Show understanding of studied written text (Ext)

90850 Show understanding of studied visual text (Ext)

90851 Unfamiliar Texts (Ext)

90052 Produce Creative Writing (Int)

90053 Produce Formal Writing (Int)

90852 Explain significant connection(s) across texts, using supporting evidence (Int)

90853 Use information literacy skills to form conclusion(s) (Int)

90854 Personal Response to independently read texts (Int)

90855 Create a visual text (Int)

90856 Show understanding of visual text through close viewing (Int)

90857 Construct and deliver an oral text (Int)

**Course Costs:** Workbook approx \$20

### 11 English - Alternative

#### 11EALT

10 Literacy credits from Unit Standards and some Achievement Standards

Level 1:

10792 Write letters

25060 Independently read texts for practical purposes and to gain knowledge

26622 Write to communicate ideas for a purpose and audience

26624 Read texts with understanding

26625 Actively participate in spoken interactions

90854 Form personal responses to independently read texts, supported by evidence

The course content is suitable for those students who would have difficulty in coping with NCEA English Level 1 and is designed to meet the needs of those students who do not intend going to university or following a

profession. The emphasis in this course is based on Practical English skills using a wide variety of content. All standards are Internally Assessed.

## 12 English

### 12ENG

This is an academic English course and leads on to study in Year 13.

NZQA Assessment – Level 2 Course Endorsement is possible.

The course is chosen from the following:

- 91098 Analyse specified aspect(s) of studied written text(s), supported by evidence (Ext)
- 91099 Analyse specified aspect(s) of studied visual or oral text(s), supported by evidence (Ext)
- 91100 Unfamiliar Texts (Ext)
- 91101 Produce a selection of crafted and controlled writing (Int)
- 91102 Construct and deliver a crafted and controlled oral text (Int)
- 91103 Create a crafted and controlled visual and verbal text (Int)
- 91104 Analyse significant connections across texts, supported by evidence (Int)
- 91105 Use information literacy skills to form developed conclusion(s) (Int)
- 91106 Form developed personal responses to independently read texts (Int)
- 91107 Analyse aspects of visual text through close viewing (Int)

**Prerequisites:** 14 credits from Level 1 English Achievement Standards and/or teacher recommendation

**Course Costs:** Workbook approx \$20

## 12/13 English - Alternative

### 12EALT

The course content is suitable for those students who would have difficulty coping with NCEA Level 2 English, and is designed to meet the needs of those students who do not intend going to university or following a profession. The emphasis in this course is based on Practical English skills using a wide variety of content. All standards are Internally Assessed.

Level 2:

3488 Write business correspondence for a workplace

91106 Form developed personal responses to independently read texts, supported by evidence

## 13 English

### 13ENG

This is an **academic** English course and leads on to study at tertiary level.

NZQA Assessment – Level 3 Course Endorsement is possible.

The course is chosen from the following:

- 90472 Respond critically to specified aspects of studied written text (Ext)
- 91473 Respond Critically to chosen aspects of Visual text (Ext)
- 91474 Unfamiliar Prose and Poetry texts. (Ext)
- 91475 Produce a selection of fluent and coherent writing (Int)
- 91476 Create and deliver a fluent and coherent oral text (Int)
- 91478 Respond critically to significant connections across text (Int)
- 91479 Develop an informed understanding of literature using critical texts. (Int)
- 91480 Respond Critically to specified aspects of Visual text. (Int)

**Prerequisites:** Teacher recommendation

**Course Costs:** Workbook approx \$20

## 13 English for Academic Purposes 13EAP

This is an alternative course and is chosen from five unit standards which comprise a study skills tertiary preparation course for those intending to proceed to tertiary study in areas other than English.

The course is chosen from the following:

22750 Write a crafted text using researched material in English for an academic purpose (Int)

22751 Read and process information for academic purposes (Int)

22749 Write texts under test conditions in English for academic purposes (Int)

22891 Deliver an oral presentation for academic purposes (Int)

22892 Demonstrate understanding of spoken text and process information (Int)

**Prerequisites:** Teacher recommendation

22750 and 22751 are approved for University Entrance Literacy Requirements

## Mathematics Department

Mathematics is compulsory in Year 11 and optional in Years 12 and 13. Course placement in Year 11 is made by the Head of Department based on performance in Year 10.

### 11 Mathematics A 11MAT

This is an academic mathematics course and leads on to study in Years 12 and 13.

NZQA Assessment – 22 Credits Level 1. Course Endorsement is possible.

91026 Apply numeric reasoning (Int)

91030 Apply measurement (Int)

91036 Investigate bivariate data (Int)

91037 Demonstrate understanding of chance and data (Ext)

91028 Investigate relationships between tables, equations and graphs (Ext)

91027 Apply algebraic procedures in solving problems (MCAT) (Ext)

**Course Costs:** Workbook approx \$20 and suitable calculator

### 11 Mathematics B 11MAT

This is a mid-band Mathematics course. NZQA Assessment – 22 Credits at Level 1 Including 10 Numeracy US Credits, Course Endorsement is possible.

26623 Use number (Int)

26626 Interpret statistical information (Int)

26627 Use measurement (Int)

91026 Apply numeric reasoning (Int)

91030 Apply measurement (Int)

91036 Investigate bivariate data (Int)

91037 Demonstrate understanding of chance and data (Ext)

**Course Costs:** suitable calculator

## 12 Mathematics

### 12MAT

This is an academic course in Mathematics leading to both Statistics and Calculus courses in Year 13.  
21 credits are available. Course Endorsement is possible.

- 91256 Apply co-ordinate geometry methods in solving problems (Int)
- 91257 Apply graphical methods in solving problems (Int)
- 91268 Investigate a situation involving elements of chance using a simulation (Int)
- 91259 Apply trigonometric relationships in solving problems (Int)
- 91262 Apply calculus methods in solving problems (Ext)
- 91267 Apply probability methods in solving problems (Ext)

For most internal assessments, the opportunity will be provided for one re-assessment.

**Prerequisites:** 10 credits from Level 1 Mathematics Achievement Standards and teacher recommendation

**Course Costs:** Workbook approx \$20 and suitable calculator.

## 12 Mathematics & Finance

### 12MAF

This is a course in Mathematics and Financial Literacy.  
All standards are Internally Assessed except for 91267.  
Course endorsement is possible. 24 credits are available.

#### Mathematics

- 91260 Apply network methods
- 91268 Investigate a situation involving elements of chance using a simulation
- 91258 Apply sequences and series
- 91259 Apply Trigonometric relationships
- 91267 Apply probability methods

#### Financial Literacy

- 24695 Demonstrate knowledge of income, taxation, and other deductions for personal financial management
- 28097 Evaluate and select personal banking products and services in relation to personal financial needs

28096 Evaluate and select insurance product types in relation to events for personal finances

**Prerequisites:** Teacher recommendation

**Course Costs:** Write-on workbooks for the 6 Mathematics topics \$5 each.

For most internal assessments, the opportunity will be provided for one re-assessment. Due to other commitments, some students may only attempt part of this course.

## 13 Statistics

### 13MAS

This course covers both statistics and mathematics. The statistical skills are particularly useful in tertiary courses where data analysis is needed.

Course Endorsement is possible. 20 credits are available.

- 91574 Apply linear programming methods in solving problems (Int)
- 91580 Investigate times series data (Int)
- 91581 Investigate bivariate data (Int)
- 91585 Apply probability concepts in solving problems (Ext)
- 91586 Apply probability distributions in solving problems (Ext)
- 91575 Apply systems of simultaneous equations in solving problems (Int)

**Prerequisites:** Teacher recommendation

**Course Costs:** Workbook approx \$20 and a graphical calculator

For most internal assessments, the opportunity will be provided for one re-assessment.

## 13 Calculus

13MAC

In recent years, because of numbers, this course has been run by WestNet via Video Conference. Support is given at school.

Course Endorsement is possible; 21 credits are available.

91578 Apply differentiation methods in solving problems (Ext)

91579 Apply integration methods in solving problems (Ext)

91575 Apply trigonometric methods in solving problems (Int)

91577 Apply the algebra of complex numbers in solving problems (Ext)

**Prerequisites:** Teacher recommendation

**Course Costs:** Suitable calculator

## Science Department

In science, students explore how both the natural world and science itself work, so that they can participate as informed, critical and responsible citizens in a society in which science plays a significant role.

### Year 11 Science

11SCI

#### Course Content

The course covers the level 6 section of the New Zealand National Curriculum for Science: Physics, Chemistry and Biology.

#### NZQA Assessment

24 Credits at NCEA level 1

*Internally Assessed=12 credits*

90930: Chemistry practical investigation

90935: Physics practical investigation

90950: Humans and micro-organisms

*Externally Assessed=12 credits*

90940: Mechanics

90944: Acids and bases

90948: Genetics

**Course Costs:** Workbooks \$25

### Year 12 Biology

12BIO

#### Course Content

Students will study biological and community relationships and patterns, adaptations of animals, genetics and evolution, investigations in applied biology, analysing the biological validity of data presented to the public and investigate structure and functions of cells.

**Prerequisite:** AS90948 achieved in Level 1 and either AS90940 or AS90944 achieved in Level 1.

#### NZQA Assessment

18 Credits at NCEA level 2

*Internally Assessed=10 credits*

91153: Carry out practical investigation

91154: Analyse the validity of information presented to the public

91155: Adaptations

*Externally Assessed=12 credits*

91156: Cell biology

91157: Genetic variation

91159: Gene expression

**Course Costs:** workbook costs ~\$30

## Year 12 Physics 12PHY

### Course Content

This is an academic Physics course and leads on to study in Year 13. The course covers the theory of mechanics, electricity and magnetism, nuclear physics, and waves.

**Prerequisite:** AS90940 (Mechanics) achieved in Level 1 Science and AS91027 (Algebra) achieved in Level 1 Mathematics.

### NZQA Assessment

26 Credits available at NCEA level 2

*Internally Assessed=10 credits*

91168: Carry out practical investigation

91169: Physics of selected context

91172: Atomic and Nuclear Physics

*Externally Assessed=16 credits*

91170: Light and Waves

91171: Mechanics

91173: Electricity and electromagnetism

**Course Costs:** manual approximately \$30

## Year 12 Chemistry 12CHE

### Course Content

Chemistry is the study of matter and how it interacts in certain conditions. In this course students will study quantitative (how much) and qualitative (what sort of ion) analysis, chemical reactivity, organic compounds, and a choice of either chemistry in technology or oxidation-reduction.

**Perquisite:** AS90944 achieved at Level 1 and either AS90940 or AS90948 achieved at Level 1.

### NZQA Assessment

18 Credits at NCEA level 2

*Internally Assessed=10 credits*

91161: Carry out quantitative analysis

91162: Identify ions in solution

91163: Chemistry in current technology

or 91167: Oxidation-reduction

*Externally Assessed=8 credits*

91165: Selected organic compounds

91166: Chemical reactivity

**Course Costs:** manual approximately \$40

## Year 13 Biology 13BIO

### Course Content

Students will explore evolutionary processes, including human evolution, study relationships between organisms and their environment, carry out investigations in Biology and look into socio-scientific issues in Biology and Earth Science.

**Prerequisite:** 14 credits in 12BIO including AS91157 achieved at Level 2 and either AS91156 or AS91158 achieved at Level 2

### NZQA Assessment

19 Credits at NCEA level 3

*Internally Assessed=9 credits*

91601: Carry out a practical investigation with guidance

91602: Socio-scientific Issue report

91604: Homeostasis study and report

*Externally Assessed=13 credits*

91603: Plant and animal responses

91605: Processes leading to Speciation

91606: Human evolution

**Costs:** Biozone books \$30

## Year 13 Chemistry 13CHE

### Course Content

This course builds on what was studied in Year 12. Topics include a quantitative investigation, spectroscopic data analysis, chemical processes in the world, organic compounds, and thermochemical principles and particles. Students who wish to expand on the Year 12 chemical reactivity can study for the optional external, aqueous systems.

### NZQA Assessment

Minimum of 20 Credits at NCEA level 3

*Internally Assessed=10 credits*

91387: Quantitative analysis investigation

91388: Spectroscopic data

91389: Chemical processes in the world

*Externally Assessed=10 or 15 credits*

91390: Thermochemistry and particles

91391: Properties of organic compounds

91392: Aqueous systems (optional)

**Course Costs:** manual approximately \$40

## Year 13 Physics 13PHY

### Course Content

This course continues to build on the concepts taught in year 12. Students will learn more about the theory of mechanics, electricity and magnetism, nuclear physics, and waves.

**Prerequisite:** 14 credits in 12PHY including 91171: Mechanics and 91173: Electricity and electromagnetism achieved at Level 2

### NZQA Assessment

26 Credits at level 3

*Internally Assessed= 10 credits*

91521: Carry out practical investigation

91527: Socio-scientific Issues  
91525: Modern Physics  
*Externally Assessed= 16 credits*  
91523: Light and Waves  
91524: Mechanics  
91526: Electricity and Magnetism

**Course Costs:** manual approximately \$40

## Social Science Department

The social sciences learning area is about how societies work and how people can participate as critical, active, informed, and responsible citizens. Contexts are drawn from the past, present, and future and from places within and beyond New Zealand.

**PLEASE NOTE:** We will not be able to run classes in all of the Social Science courses offered here. Those which do run will be determined by student choice. Others will be available through Te Kura.

### 11 Economics

#### 11ECO

This course focuses on how three groups in the economy (consumers, producers, and government) interact in the market place. These interactions result in economic decisions about what will be produced and the process of production.

NZQA Assessment – 24 Credits Level 1  
Course Endorsement is possible

90983 Demonstrate understanding of consumer choices, using scarcity and/or demand (Ext)  
90984 Producer decisions (Int)  
90985 Producer choices (Int)  
90986 Market Equilibrium(Ext)  
90988 Interdependence of sectors (Int)  
90988 Interdependence of sectors of the New Zealand economy (Int)

**Course Costs:** Workbook approx \$30 and field trip costs.

### 11 Geography

#### 11GEO

Geography is about how the earth works, this course will consist of: study of current environmental issues, extreme natural events, and population studies.

NZQA Assessment – 21 Credits Level 1  
Course Endorsement is possible

91007 Extreme Natural Events (Ext)  
91008 Population Concepts (Ext)  
91009 Environmental Sustainability (Int)  
91011 Geographic research (Int)  
91012 Contemporary New Zealand Geographic Issue (Int)  
91013 Global geographic issue (Int)

**Course Costs:** Workbook approx \$30 and field trip costs.

## 11 History

### 11HIS

This course explores events of significance in the 20th Century. Study includes New Zealand's search for security in the post WWII world.

NZQA Assessment – 24 Credits Level 1

Course Endorsement is possible

91001 Investigation of an historical event or place (Int)

91002 Present a report on an historical event or place (Int)

91003 Historical resources (Ext)

91004 Perspectives of people on an historical event (Int)

91005 Causes and Consequences of an historical event (Ext)

91006 How a significant historical event affected New Zealand society (Ext)

**Course Costs:** Workbook approx \$30.

## 12 Economics

### 12ECO

This course covers the New Zealand economy and looks at different sectors of the economy and how they work together. Key topics studied are trade, unemployment and economic growth.

NZQA Assessment – 24 Credits Level 2

Course Endorsement is possible.

91222 Analyse inflation using economic concepts and models (Ext)

91223 Analyse international trade (Ext)

91224 Analyse economic growth (Ext)

91225 Analyse unemployment (Ext)

91226 Analyse statistical data relating to two contemporary economic issues (Int)

91227 Government policies (Int)

91228 Contemporary economic issue (Int)

**Prerequisites:** Students will need to have at least 8 credits at Level 1 in Economics as well as level one literacy and numeracy.

**Course Costs:** Workbook

## 12 History

### 12HIS

This course covers the political, military and social movements that have helped shape the modern world.

NZQA Assessment – 23 Credits Level 2

Course Endorsement is possible.

91229 Inquiry of historical event (Int)

91230 Examine historical event (Int)

91231 Historical resources (Ext)

91232 Interpret perspectives (Int)

91233 World War I – Nazism (Ext)

**Prerequisites:** Students will need to have at least 12 credits at Level 1 History as well as Level 1 literacy.

**Course Costs:** Workbook

## 13 History

### 13HIS

This course explores events of significance in the 20<sup>th</sup> Century to New Zealanders. Study includes the Vietnam War.

NZQA Assessment – 25 Credits Level 3  
Course Endorsement is possible.

91434 Research an historical event or place of significance to New Zealanders (Int)

91435 Analyse an historical event, or place of significance to New Zealanders (Int)

91436 Analyse evidence relating to an historical event of significance to New Zealanders. (Ext)

91438 Analyse the causes and consequences of a significant historical event. (Ext)

**Prerequisites:** Students will need to have at least 12 credits at Level 2 History as well as Level 2 literacy.

**Course Costs:** Workbook

## Art Department

Art is optional in Years 9, 10, 11, 12 and 13.

## 11 Art

### 11ART

This is an academic course leading to Art and Photography courses in Year 12. This course consists of a maximum of 4 NCEA standards with a total of 22- 26 credits available. Three standards are internally assessed and one is an external exam in the form of a portfolio. The Theme for the year draws on the students' own cultural milieu and local environment and the study of NZ and international contemporary artists as a source of motivation and subject matter. Course Endorsement is possible.

90913 Demonstrate understanding of art works using art terminology (Int)

90914 Use drawing to record information in wet and dry media (Int)

90915 Use drawing to develop work in more than one field of practice (Int)

90916 Produce a body of work informed by established practice (Ext)

**Prerequisites:** Year 9 and 10 Art

**Course Costs:** Subject fees plus stationary requirements.

## 12 Art

### 12ART

This is an academic course leading to Painting, Printmaking and Photography courses in Year 13. This course offers a maximum of 5 NCEA standards with a total of 28 credits. Four standards are internally assessed and one is an external exam in the form of a portfolio. The Theme for the year draws on the students' own interests and cultural milieu and the study of NZ and international contemporary artists as a source of motivation and subject matter.

Course Endorsement is possible.

91313 Use drawing methods to apply knowledge of conventions appropriate to printmaking (Int)

91318 Develop ideas in a related series of drawings appropriate to established printmaking practice (Int)

91311 Use drawing methods to apply knowledge of conventions appropriate to painting (Int)

91316 Develop ideas in a related series of drawings appropriate to established painting practice (Int)

Painting or Printmaking Folio:

Produce a systematic body of work that shows understanding of art making conventions and ideas within printmaking or painting. (Ext)

**Prerequisites:** 12 credits from Level 1 Art and teacher recommendation.

**Course Costs:** Subject fees plus stationary requirements.

## 12 Photography 12PHO

This is an academic course leading to Photography in Year 13. This course consists of 4 NCEA standards with a total of 24 credits. Three standards are internally assessed, and one is an external exam in the form of a portfolio. The Theme for the year draws on the students' own interests and cultural milieu and the study of NZ and international contemporary artists as a source of motivation and subject matter. Course endorsement is possible.

91307 Demonstrate an understanding of methods and ideas from established practice appropriate to Photography (Int)

91312 Use drawing methods to apply knowledge of conventions appropriate to photography (Int)

91317 Develop ideas in a related series of drawings appropriate to established photography practice (Int)

91322 Produce a systematic body of work that shows understanding of art making conventions and ideas within photography (Ext)

**Prerequisites:** 12 credits from Level 1 Art and /or teacher recommendation

**Course Costs:** Subject fees, camera hire, stationary requirements plus additional film and /or digital printing costs.

## 13 Art 13ART

Two Practical Art subjects at Level 3 are usually required for gaining entry to Fine Arts at University and sometimes at Polytechnic.

## 13 Painting 13PTG

Students can gain up to 24 credits in this course. Three standards are internally assessed, and one is an external exam in the form of a portfolio.

91441 Analyse methods and ideas from established painting practice (Int)

91446 Use drawing to demonstrate understanding of conventions appropriate to painting (Int)

91451 Systematically clarify ideas using drawing informed by established painting practice (Int)

91546 Produce a systematic body of work that integrates conventions and regenerates ideas within painting (Ext)

**Prerequisites:** 12 credits from Level 2 Art and teacher recommendation.

**Course Costs:** Subject fees plus stationary requirements.

## 13 Printmaking 13PRI

Students can gain up to 24 credits in this course. Three standards are internally assessed, and one is an external exam in the form of a portfolio.

91443 Analyse methods and ideas from established printmaking practice (Int)

91448 Use drawing to demonstrate understanding of conventions appropriate to printmaking (Int)

91453 Systematically clarify ideas using drawing informed by established printmaking practice (Int)

91548 Produce a systematic body of work that integrates conventions and regenerates ideas within printmaking practice (Ext)

**Prerequisites:** 12 credits from Level 2 Art and teacher recommendation.

**Course Costs:** Subject fees plus stationary requirements.

## 13 Photography 13PHO

Students can gain up to 24 credits in this course. Three standards are internally assessed, and one is an external exam in the form of a portfolio.

91442 Analyse methods and ideas from established photography practice (Int)

91447 Use drawing to demonstrate understanding of conventions appropriate to photography (Int)

91452 Systematically clarify ideas using drawing informed by established photography practice (Int)

91547 Produce a systematic body of work that integrates conventions and regenerates ideas within photography practice (Ext)

**Prerequisites:** 12 credits from Level 2 Art and teacher recommendation.

**Course Costs:** Subject fees, camera hire, stationary requirements plus additional film and /or digital printing costs.

## Technology Department

### Technology

Technology is optional in Year 11, 12 and 13.

Students are required to design and make a hard materials project. They develop portfolios of work that include planning, research, design, production of a solution, and evaluation. At least the first term will be spent on written research, planning and design.

Opportunities will be provided for one re-assessment of internal standards. The final date for external submission is the end of October unless otherwise notified.

### 11 Technology 11TEC

This is an academic and practical course and leads on to study in Years 12 and 13.

NZQA Assessment – 24 Credits Level 1.

Course Endorsement is possible.

91045 Use planning tools to guide the technological development of an outcome to address a brief. (Int)

91044 Undertake brief development to address a need or opportunity. (Int)

91047 Undertake development to make a prototype to address a brief. (Int)

91057 Implement basic procedures using resistant materials to make a specified product. (Int)

91048 Demonstrate understanding of how technological modelling supports decision-making. (Ext)

**Prerequisites:** Year 9 and 10 Technology preferred

**Course Costs:** \$50 Deposit plus material costs

### 12 Technology 12TEC

This is an academic and practical course and leads on to study in Year 13.

NZQA Assessment – 20 Credits Level 2.

Course Endorsement is possible.

91344 Implement advanced procedures using resistant materials to make a specified product with special features. (Int)

91354 Undertake brief development to address an issue (Int)

91356 Develop a conceptual design for an outcome (Int)

91357 Undertake effective development to make and trial a prototype (Int)

91359 Demonstrate understanding of the role of material evaluation in product development (Ext)

**Prerequisites:** 10 credits Level 1 Technology  
**Course Costs:** \$50 Deposit Plus Material Costs

## 13 Technology

### 13TEC

This is an academic and practical course and leads on to study at tertiary level and a range of careers.  
NZQA Assessment – 24 Credits Level 3.  
Course Endorsement is possible.

91608 Undertake brief development to address an issue within a determined context (Int)  
91611 Develop a prototype considering fitness for purpose in the broadest sense (Int)  
91616 Demonstrate understanding of how the fitness for purpose of technological outcomes may be broadly interpreted (Int)

91620 Implement complex procedures to integrate parts using resistant materials to make a specified product (Int)  
91612 Demonstrate understanding of how technological modelling supports technological development (Ext)

**Prerequisites:** 10 credits Level 2 Technology  
**Course Costs:** \$50 Deposit Plus Material Costs

## Graphics

Graphics is optional in Year 11, 12 and 13.  
The content of this programme leans heavily towards understanding and applying the design process and relies on the ability of students to solve design problems using a graphics approach.  
Students will present their evidence for assessment as separate portfolios of work for each brief. These will be marked for internal assessment before being sent for external assessment.  
External Assessment is achieved using a portfolio process and will contain best examples of work completed throughout the year. Students will choose which pieces of work will be submitted in consultation with their teacher. Please note credits for the portfolio will not be given until the end of the year. The final date for external submission is the end of October unless otherwise notified. Opportunities will be provided for one re-assessment of internal standards.

## 11 Graphics

### 11GRA

This is an academic and practical course and leads on to study in Years 12 and 13.  
NZQA Assessment – 21 Credits Level 1.  
Course Endorsement is possible.

91066 Use rendering techniques to communicate the form of design ideas. (Int)  
91067 Use the work of an influential designer to inform design ideas (Int)  
91068 Undertake development of design ideas through graphics practice. (Int)  
91063 Produce freehand sketches that communicate design ideas (Ext)  
91064 Produce instrumental, multi-view orthographic drawings that communicate technical features of design ideas (Ext)  
91065 Produce instrumental paraline drawings to communicate design ideas (Ext)

**Prerequisites:** Year 9 and 10 Graphics preferred  
**Course Costs:** Nil

## 12 Graphics

### 12GRA

This is an academic and practical course and leads on to study in Year 13.  
NZQA Assessment – 25 Credits Level 2.  
Course Endorsement is possible.

91340 Use the characteristics of a design movement or era to inform own design ideas (Int)  
91341 Develop a spatial design through graphics practice (Int)  
91342 Develop a product design through graphics practice (Int)  
91337 Use visual communication techniques to generate design ideas (Ext)  
91338 Produce working drawings to communicate technical details of a design (Ext)  
91339 Produce instrumental perspective projection drawings to communicate design ideas (Ext)

**Prerequisites:** 10 credits Level 1 Graphics

**Course Costs:** Nil

## 13 Graphics

### 13GRA

This is an academic and practical course and leads on to study at tertiary level and a range of careers.  
NZQA Assessment – 22 Credits Level 3.  
Course Endorsement is possible.

91629 Resolve a spatial design through graphics practice (Int)  
91630 Resolve a product design through graphics practice (Int)  
91627 Initiate design ideas through exploration (Ext)  
91631 Produce working drawings to communicate production details for a complex design (Ext)

**Prerequisites:** 10 credits Level 2 Graphics

**Course Costs:** Nil

## Home Economics

Home Economics is an option subject and develops students' interests and abilities in food related areas. Standards from both Home Economics and Technology are available for study.

## 11 Home Economics

### 11HEC

This course expands the information covered in Year 9 Health and 9 and 10 Technology areas and leads on to study in Years 12 and 13.  
23 Credits Level 1, Course Endorsement is possible.  
Along with theory assessment there will be practical assessments (minimum 8 practical food sessions) which assesses techniques, management and personal routines, and clothing construction assessment.

Examples of Standards available:

90959 Demonstrate knowledge of practices and strategies to address food handling issues.  
90956 Demonstrate knowledge of an individual's nutritional needs.  
90957 Demonstrate understanding of societal influences on an individual's food choices and well-being.  
90961 Demonstrate understanding of how packaging information influences an individual's food choices and well-being. (Ext)  
91082 Implement basic procedures to process a specified product.  
91083 Demonstrate understanding of basic concepts used in processing.

**Hospitality Units at Polytechnic** The Food Safety and Hygiene Unit Standards are studied at the Polytechnic during school time.

167 Practise food safety methods in a food business Level 2  
 20666 Demonstrate a basic knowledge of contamination hazards and control methods used in a food business  
 Level 2

**Course Costs:** Workbook approx\$23 and \$8 for basic pantry ingredients

## 12 Home Economics 12HEC

This course is open to negotiation in respect to the student's abilities and interests. Standards from both Home Economics, which are nutrition based, and Technology which are Vocational Pathway standards, are available.

Examples of standards: -

91299: Analyse issues related to the provision of food for people with specific needs

91301: Analyse beliefs, attitudes and practices related to a nutritional issue for families in New Zealand.

91351: Implement advanced procedures to process a specified product.

91352: Demonstrate understanding of advanced concepts used in processing.

91359: Demonstrate understanding of the role of material evaluation in product development. (Ext)

**Course Costs:** \$8 for basic pantry ingredients

## 13 Home Economics 13HEC

Depending on student interests and career path, a programme will be organised. If the student has not completed Year 11 or 12, sometime may be spent on nutritional learning in order to complete the Level 3 standards. Standards from both Home Economics, which are nutrition based, and Technology, which are Vocational Pathway standards, are available.

**Course Costs:** \$8 for basic pantry ingredients

## Computing

Computing is optional in Years 11 - 13. Course placement is made by the Head of Department based on performance in previous years.

For most internal assessments, the opportunity will be provided for one re-assessment.

Digital Information covers word processing, spreadsheets, database and powerpoint.

Digital Media covers print and web design.

There is opportunity to become involved with VEX Robotics.

## 11 Computing

### 11COM

This is an academic computing course and leads on to study in Years 12 and 13. This course covers digital information, digital media, computer science, and programming.

NZQA Assessment – 14-16 Credits Level 1. Course Endorsement is possible. Prerequisites: **Preferably students take at least one semester of 10COM. Teacher recommendation**

Standard	Title	Credits
<b>Internal Assessment</b>		
91877	Develop a proposal for a digital outcome	3
91879	Develop a digital outcome to manage data	4
91880	Develop a digital media outcome	4
91881	Develop an electronics outcome	6
91882	Develop a computer system	4
91883	Develop a computer program	4
91884	Use basic iterative processes to develop a digital outcome	6

External Assessment		
91886	Demonstrate understanding of human computer interaction	3
91887	Demonstrate understanding of compression coding for a chosen media type	3

## 12 Computing

### 12COM

12COM is an academic course in Computing leading to study in Year 13. This course covers digital information, digital media, computer science, and programming.

NZQA Assessment – 14-16 credits Level 2. Course Endorsement is possible. Prerequisites: **Preferably students take 11COM. Teacher recommendation**

Standard	Title	Credits
Internal Assessment		
91368	Implement advanced procedures to produce a specified digital information outcome with dynamically linked data	6
91369	Demonstrate understanding of advanced concepts of digital media	4
91370	Implement advanced procedures to produce a specified digital media outcome	4
91372	Construct a plan for an advanced computer program for a specified task	3
91373	Construct an advanced computer program for a specified task	3
91374	Demonstrate understanding of advanced concepts used in the construction of electronic environments	3
91375	Implement advanced techniques in constructing a specified advanced electronic and embedded system	3
91377	Demonstrate understanding of local area network technologies	4
91378	Implement procedures for administering a local area network	4

External Assessment		
91371	Demonstrate understanding of advanced concepts from computer science	4

## 13 Computing

### 13COM

13COM is an academic course in Computing. This course covers digital information, digital media, and programming.

NZQA Assessment – 24 credits. Course Endorsement is possible. Prerequisites: **Preferably students take 12COM. Teacher recommendation**

Standard	Title	Credits
Internal Assessment		
91633	Implement complex procedures to develop a relational database embedded in a specified digital outcome	6
91634	Demonstrate understanding of complex concepts of digital media	4
91635	Implement complex procedures to produce a specified digital media outcome	4
91637	Develop a complex computer program for a specified task	6

91639	Implement complex interfacing procedures in a specified electronic environment	4
91640	Implement complex techniques in constructing a specified complex electronic and embedded system	4
91641	Demonstrate understanding of wide area network technologies	4
91642	Implement procedures for administering a wide area network	4

External Assessment		
91636	Demonstrate understanding of areas of computer science	4

## 11 Japanese

### 11JAP

This course requires that the students be able to recognize and write hiragana, katakana and simple kanji. Assessments will focus on reading, writing, speaking and listening, and are both internally and externally assessed. At Level 1, students are required to use language to talk about themselves and their immediate situation. They learn to talk and communicate in simple language, about themselves, their families and schools and similar topics. This course is a prerequisite for Level 2 Japanese and may also be useful for students pursuing the hospitality and tourism industries. The course will be chosen from these standards.

- 90893 Demonstrate understanding of a variety of spoken Japanese texts on areas of most immediate relevance. (Ext)
- 90894 Give a spoken presentation in Japanese that communicates a personal response. (Int)
- 90895 Interact using spoken Japanese to communicate personal information, ideas and opinions in different situations. (Int)
- 90896 Demonstrate understanding of a variety of Japanese texts on areas of most immediate relevance. (Ext)
- 90897 Write a variety of text types in Japanese on areas of most immediate relevance. (Int)

## 12 Japanese

### 12JAP

This course builds on the skills to read, write, speak and listen in Japanese. There are both internally and externally assessed achievement standards. At Level 2, students are starting to use language in a broader context. They learn to talk and communicate in more complex language, using this to share information and justify ideas and opinions. This course is a prerequisite for Level 3 Japanese. This course may be useful for students pursuing the hospitality and tourism industries and pathways into university Japanese courses. The course will be chosen from these standards.

- 91133 Demonstrate understanding of a variety of spoken Japanese texts on familiar matters (Ext)
- 91134 Interact using spoken Japanese to share information and justify ideas and opinions in different situations. (Int)
- 91135 Give a spoken presentation in Japanese that communicates information, ideas and opinions. (Int)
- 91136 Demonstrate understanding of a variety of written and/or visual Japanese text(s) on familiar matters. (Ext)
- 91137 Write a variety of text types in Japanese to convey information, ideas, and opinions in genuine contexts. (Int)

## 13 Japanese

### 13JAP

This course builds on the skills to read, write, speak and listen in Japanese. There are both internally and externally assessed achievement standards. At Level 3, students are using more complex language to explore and justify varied ideas and perspectives in different situations. This course prepares students for university level Japanese. This course may be useful for students pursuing the hospitality and tourism industries. The course will be chosen from these standards.

91553 Demonstrate understanding of a variety of extended spoken Japanese texts. (Ext)

91554 Give a clear spoken presentation in Japanese that communicates a critical response to stimulus material. (Int)

91555 Interact clearly using spoken Japanese to explore and justify varied ideas and perspectives in different situations. (Int)

AS91556 Demonstrate understanding of a variety of extended written and/or visual Japanese. (Ext)

AS91557 Write a variety of text types in clear Japanese to explore and justify varied ideas and perspectives. (Int)

## Year 11 Drama

### 11DRA

This is an academic drama course which builds on the year 9 and 10 introduction to drama options.

NZQA Assessment – between 17 and 22 Credits Level 1 depending on what combination of internal and external achievement standards are selected

90006 Apply drama techniques in a dramatic context – (Int)

90009 Perform an acting role in a scripted production –(Int)

90011 Demonstrate understanding of the use of drama aspects within live performance – (Ext)

90997 Devise and perform a drama – (Int)

90998 Demonstrate understanding of features of a drama/theatre form – (Ext)

91000 Demonstrate understanding of a significant play – (Int)

**Course Costs:** Workbook approx \$30 plus admission to at least one live performance during the year.

## PHYSICAL EDUCATION / OUTDOOR EDUCATION DEPARTMENT

## 12 Physical Education

### 11PED

This is a 21credit physical/ academic Level 1 endorsed course with no course costs.

All standards assessed during the year are listed below:

**90962** Level 1 cr5. Participate actively in a variety of physical activities. (Int)

**90964** Level 1 cr3 Demonstrate quality movement. (Int)

**90967** Level 1 cr3 Demonstrate strategies to improve physical activity. (Int)

**90968** Level 1 cr3 Demonstrate responsible behaviour in the outdoors. (Int)

**90970** Level 1 cr3 Demonstrate self-management strategies and describe the effects. (Int)

**90975** Level 1 cr4 Demonstrate understanding of issues to make health enhancing decisions. (Ext)

## 12 Outdoor Education

### 12OED

This is a 24 credit physical/ academic non-endorsed Level 2 course with a \$200 fee.

All standards assessed during the year are listed below:

- US425** Experience Day Tramps. (Ext)
  - US457** Mountain Bike on Intermediate to Expert Terrain. (Int)
  - US4573** Communicate using a Two-Way Radio. (Int)
  - US20818** Demonstrate Kayaking Skills. (Ext)
  - US20157** Demonstrate the use of basic rope systems. (Ext)
  - US476** Roll a Kayak. (Ext)
  - US444** Demonstrate basic rock-climbing movement. (Ext)
  - US485** Demonstrate Rafting Skills. (Ext)
  - 91330** Perform a physical activity in an applied setting. (Int)
  - 91335** Examine the implementation and outcomes of a physical activity event or opportunity.
- 