

The logo for Botany Downs Secondary College features a large, stylized letter 'B' composed of three concentric, overlapping curved bands. The outermost band is a dark maroon color, the middle band is a light blue color, and the innermost band is white. The text 'BOTANY DOWNS' and 'Secondary College' is positioned within the upper part of the 'B' in a light grey, sans-serif font.

BOTANY DOWNS
Secondary College

Name:

Whanau Class:

Year 13

Option Book

2009 for 2010

The following booklet contains information of the Year 13 programme at BDSC.

All following subjects will run depending on the number of applicants and availability of staff and facilities (in practical subjects).

Entry to some courses will be limited.

Entry to all courses will be at the discretion of the appropriate Head of Learning Area.

Year 13 Optional Subjects

Every Year 13 student at Botany Downs Secondary College can choose 5 options. Information for these courses can be found on the following pages listed.

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ACCOUNTING

Course Name	Year 13 Accounting
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

The purpose of accounting is to provide financial and non-financial information to assist decision-making in the management of, and investment in, public and private sector organisations. The major roles of an accountant are to identify, measure, interpret and communicate information relevant to these decisions. In addition, the study of Accounting is designed to promote critical thinking and develop practical competencies, and prepare students for university education and a wide variety of careers. This course builds on the introductory Accounting studied at Level 1 and 2, and moves it into the sphere of partnerships and companies. Concepts are applied to these businesses; processing undertaken and statements are provided.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90504	Accounting 3.5	Prepare a report that analyses and interprets a companies financial report for external users	Internal	5
US7375	-	Prepare accounting records and financial statements for partnerships	Internal	2
US7376	-	Prepare accounting records for companies	Internal	2
US7377	-	Describe and prepare the financial statements for a company	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90500	Accounting 3.1	Describe and apply the conceptual basis of accounting in context	External	4
AS90501	Accounting 3.2	Process financial information for partnerships and companies	External	3
AS90503	Accounting 3.4	Prepare financial statements for partnerships and companies	External	6
AS90505	Accounting 3.6	Explain and prepare information for management decision making	External	3
Possible Credits Available			21 credits	

Course Prerequisites 12 credits in NCEA Level 2 Accounting

Fieldwork -

Approximate Course Costs Approximately \$34 (30)

Course Leads to

Tertiary Study and careers in Auditing, Budget Analysis, Financial or Management Accounting and Tax Accounting for Accounting Firms, Government, Corporations or even running your own Accounting firm.

Course Provider/Assessor Botany Downs Secondary College

Teacher in charge of subject Ms Cobden-Grainge

HOLA in charge of subject Ms Derbyshire

ART HISTORY

Course Name	Year 13 Art History
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

This is an academic course, which focuses on written responses to art works and their historical contexts. Students study contemporary and traditional Western art forms from the Renaissance to Modern American. They are required to research, analyse and respond to given artworks and artists and students learn terminology and language specific to the visual arts. This course prepares students for tertiary study in the arts and complements the level 3 practical art courses and Classics.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90492	Visual Art 3.3	Examine media and processes in art	Internal	3
AS90493	Visual Art 3.4	Examine a theory and its role in art	Internal	4
AS90494	Visual Art 3.5	Investigate an art issue	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90490	Visual Art 3.1	Analyse style in art	External	5
AS90491	Visual Art 3.2	Describe the meaning of iconographic motifs	External	4
AS90495	Visual Art 3.6	Examine the context of an art movement	External	4
Possible Credits Available			24 credits	

Course Prerequisites 12 credits in NCEA Level 2 Art History

Fieldwork Trips to gallery and museum

Approximate Course Costs -

Course Leads to

Tertiary Study in Fine Arts/Art History

Course Provider/Assessor Botany Downs Secondary College

Teacher in charge of subject Mr Dawson

HOLA in charge of subject Mr Clark

AUTOMOTIVE ENGINEERING

Course Name	Year 13 Automotive Engineering
Qualification and level	NCEA Level Two
Target Group	Students currently doing Level 2 Automotive Engineering

Course Outline

This course is aimed at students who would like to further their skills in the areas of Automotive and General Engineering. It is also aimed at students who are interested in a career path related to Automotive and a wide range of Engineering fields. The theory and practical components of the course will be entirely conducted at Manukau Institute of Technology and students have to organise their own transport to and from MIT. The course will contain advanced **level two** unit standards in the areas of Automotive and Engineering. As part of the course students will learn the requirements of lubricants and sealants and hydraulic brake systems in the Automotive Industry with the different methods of MIG welding and engineering skills. An introduction to engineering drawing is also provided.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA

NCEA Internal Achievement Standards/Unit Standards

Number	Subject Reference	Title	Internal/ External	Credits
US21717	-	Service automotive cooling systems.	Internal	3
US21686	-	Demonstrate knowledge of automotive cooling systems.	Internal	2
US21683	-	Demonstrate knowledge of MIG welding in the motor industry	Internal	2
US21684	-	Use a MIG welding plant in the motor industry	Internal	3
US21680	-	Demonstrate knowledge of automotive lubricants and sealants	Internal	2
US21716	-	Select and apply lubricants and sealants for automotive and related industry applications.	Internal	1
US242	-	Change the fluid and bleed a brake Hydraulic system.	Internal	2
US233	-	Service an automotive Battery	Internal	2
US2430	-	Draw and interpret engineering sketches under supervision	Internal	4
US2432	-	Construct engineering plane geometric shapes under supervision	Internal	3
Possible Credits Available			24 credits	

Course Prerequisites Students who have completed Level 2 Technology or Automotive Engineering year 12

Fieldwork

Approximate Course Costs \$34 (\$30)
Course Leads to Certificate in Automotive Engineering
Course Provider/Assessor Botany Downs Secondary College, MIT/UNITEC
Teacher in charge of subject Mr Achary
HOLA in charge of subject Mr Achary

BIOLOGY

Course Name	Year 13 Biology
Qualification and level	NCEA Level Three
Target Group	Students working towards tertiary biological sciences or other related fields including environmental science.

Course Outline

Year 13 (Level 3) Biology continues the themes of Year 12/ Level 2, focusing on genetics, biotechnology and ecology, which have great relevance in today's scientific community. The course is designed to give students the knowledge to understand developments in these areas, both past and present and the ability to appreciate their significance in life in the 21st century. Study will be focused on DNA expression and evolution and will also give consideration to the changes in the environment effecting both animals and plants. In addition the course also gives students the opportunity to fine tune their research and investigative skills which can be transferred to a range of tertiary studies. Outstanding students may choose to sit the Biology Scholarship (Level 4) exam at the end of the course.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA

NCEA Internal Achievement Standards/Unit Standards

Number	Subject Reference	Title	Internal/ External	Credits
AS90713	Biology 3.1	Carry out a practical investigation into an aspect of an organism's ecological niche with guidance. (Biology 3.1 will only be completed by those who pass the application process)	Internal	4
AS90714	Biology 3.2	Research a contemporary biological issue	Internal	3
AS90718	Biology 3.6	Describe applications of biotechnological techniques	Internal	3
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90715	Biology 3.3	Describe the role of DNA in relation to gene expression	External	4
AS90716	Biology 3.4	Describe animal behaviour and plant responses in relation to environmental factors	External	4
AS90717	Biology 3.5	Describe processes and patterns of evolution	External	3
AS90719	Biology 3.7	Describe trends in human evolution	External	3
Possible Credits Available			21 or 24 credits	

Course Prerequisites 14 credits in NCEA Level 2 Biology including AS 90459 (genetics) and 12 credits (NCEA Level 2 Achievement Standards) in both Mathematics and English
Fieldwork EOTC will be carried out at the Liggin's Institute, Auckland Museum and Auckland Zoo to enhance the study of genetics, evolution and biotechnology.
Approximate Course Costs Course Workbook - \$41 (\$35) Fieldwork - \$115 (\$100) (to be confirmed)

Course Leads to Tertiary Study in Biology or related fields
Course Provider/Assessor Botany Downs Secondary College
Teacher in charge of subject Ms Davies
HOLA in charge of subject Mr Hart

BUSINESS MANAGEMENT

Course Name Year 13 Business Management
Qualification and level NCEA Level Three
Target Group Students working towards NCEA Level 3

Course Outline

Business Management is a course designed to provide students with an insight into management roles, functions and practices within businesses. The key components of the course require students to identify key management practices and relate them to specific workplaces. Through the theoretical study of such practices, students will gain an appreciation of how the principles and techniques of different management functions can assist in their personal lives and in their day-to-day working life. Throughout the course, the students will be required to investigate real businesses or study simulated organisations. Students will complete a range of Business Studies Unit Standards which give them the opportunity to achieve with merit, and a paper from the New Zealand Institute of Management (NZIM.) Students do not need to have studied Business Studies prior to this course, although this would be helpful. For further information about this course and progression through to tertiary education, please see Miss Cobden-Grainge.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
NZIM805	Business 805	Introduction to Management	Internal	10 (equivalents)
US22857	-	Analyse a marketing issue in a business organisation and evaluate potential solutions	Internal	3
US22858	-	Evaluate the impact of change on business organisations' operations and strategic objectives	Internal	3
US22859	-	Analyse a human resource management issue in a business organisation and evaluate potential solutions	Internal	3
US9681	-	Contribute within a group/team which has an objective/s	Internal	3
Possible Credits Available			12 Unit Standard credits and 10 credit equivalents through NZIM	

Course Prerequisites
Fieldwork

NCEA Level 2 including 8 Level 2 English reading and writing credits.
 Students will have the opportunity to study for one week at Manukau Institute of Technology during the April holidays to complete "Biz Express" - An introductory business course aiming to develop essential skills and introduce tertiary business studies that will assist with further studies. The course will cover four areas - accounting, marketing, law and management. In addition, the course includes a field trip to view an organisation from a business perspective.

Approximate Course Costs
Course Leads to

\$29 (\$25) NZIM registration fee
 Further study through NZIM at tertiary institutions leading to a Certificate in Management. Although this course is not on the approved list for University Entrance, it will provide credits through a third domain.

Course Provider/Assessor
Teacher in charge of subject
HOLA in charge of subject

Botany Downs Secondary College
 Ms Halford
 Ms Derbyshire

CALCULUS

Course Name Year 13 Calculus
Qualification and level NCEA Level Three
Target Group Students working towards NCEA Level 3

Course Outline

This NCEA Level 3 course will assess all five Calculus Level 3 Achievement Standards giving a total of 24 credits. The aims of the standards are to consolidate and extend students' ability in algebraic, graphical and computations skills, to extend students' ability to formulate problems in mathematical terms and advance students' understanding of the nature of mathematical reasoning. This highly academic course also enables students to work towards scholarship level.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90637	Mathematics 3.3	Solve problems and equations involving trigonometric functions	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90635	Mathematics 3.1	Differentiate and use derivatives to solve problems	External	6
AS90636	Mathematics 3.2	Integrate functions and use integrals to solve problems	External	6
AS90638	Mathematics 3.4	Manipulate real and complex numbers and solve equations	External	5
AS90639	Mathematics 3.5	Sketch graphs of conic sections and write equations related to conic sections	External	3
Possible Credits Available			24 credits	

Course Prerequisites

Merit or better in AS90284- Algebra , AS90286 - Calculus and an Achievement or better in AS90285-Non-Linear Graphs, AS90292- Trigonometric Equations and AS90287 (US5245) Coordinate Geometry

Fieldwork
Approximate Course Costs

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 Achieving in Calculus- \$29 (\$25), Course Handbook - \$11 (\$10), Casio graphic calculator fx-9750GA+- approximately \$100
 Scholarship workbook – approximately \$29 (\$25)

Course Leads to

This course will lead to University courses in engineering, sciences and any field where mathematical analysis is important.

Course Provider/Assessor
Teacher in charge of subject
HOLA in charge of subject

Botany Downs Secondary College
 Mr McCormack
 Ms Bennet

CALCULUS ALTERNATIVE

Course Name	Year 13 Calculus Alternative
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

This NCEA Level 3 course will assess four Calculus Level 3 Achievement Standards giving a total of 21 credits. The aims of the standards are to consolidate and extend students' ability in algebraic, graphical and computations skills, to extend students' ability to formulate problems in mathematical terms and advance students' understanding of the nature of mathematical reasoning.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90637	Mathematics 3.3	Solve problems and equations involving trigonometric functions	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90635	Mathematics 3.1	Differentiate and use derivatives to solve problems	External	6
AS90636	Mathematics 3.2	Integrate functions and use integrals to solve problems	External	6
AS90638	Mathematics 3.4	Manipulate real and complex numbers and solve equations	External	5
Possible Credits Available				21 credits

Course Prerequisites Must have at least an achievement or better in AS90284-Algebra, AS90286-Calculus, AS90292- Trigonometric Equations and AS90287 (US5245)Coordinate Geometry

Fieldwork
Approximate Course Costs Achieving in Calculus- \$29 (\$25), Course Handbook \$11(\$10), Casio graphic calculator fx-9750 GA+- approximately \$100.

Course Leads to This course will lead to University courses in engineering, sciences and any field where mathematical analysis is important.

Course Provider/Assessor Botany Downs Secondary College
Teacher in charge of subject Mr McCormack
HOLA in charge of subject Ms Bennet

CHEMISTRY

Course Name	Year 13 Chemistry
Qualification and level	NCEA Level Three
Target Group	Students working towards studying tertiary chemistry or sciences or other related fields, e.g. engineering, medicine, etc.

Course Outline

Chemistry is the study of the composition and properties of matter, and the changes it undergoes. Students will sit the NCEA Level 3 Chemistry examinations at the end of the course. Outstanding students may choose to sit the Chemistry Scholarship (Level 4) exam at the end of the course. Achievement Objectives: In the content and context areas of this course students can: Investigate and explain the development of selected chemical processes and their interaction with people and the environment; Carry out qualitative and quantitative investigations to obtain, interpret, and use a range of chemical information; Understand and use the central concepts and patterns appropriate to the study of chemistry at this level. Topics Covered: 1. Redox Reactions; 2. Organic Chemistry; 3. Aqueous Systems; 4. Atoms, Ions and Molecules.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90695	Chemistry 3.2	Determine the composition of an oxidant or reductant by titration	Internal	2
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90696	Chemistry 3.3	Describe oxidation-reduction processes	External	3
AS90780	Chemistry 3.4	Describe properties of particles and thermochemical principles.	External	5
AS90698	Chemistry 3.5	Describe aspects of organic chemistry	External	5
AS90700	Chemistry 3.7	Describe properties of aqueous systems	External	5
Possible Credits Available				20 credits

Course Prerequisites At least 14 credits in NCEA Level 2 Chemistry and at least 12 credits in Level 2 Mathematics (Achievement Standards)

Fieldwork -
Approximate Course Costs -
Course Leads to Tertiary Study in Chemistry or related fields
Course Provider/Assessor Botany Downs Secondary College
Teacher in charge of subject Mr Ward
HOLA in charge of subject Mr Hart

CLASSICAL STUDIES

Course Name	Year 13 Classical Studies
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

Classical Studies is a holistic study of the Greek and Roman civilisations. It covers philosophy, art, architecture, society, politics, drama, literature and history. At Level 3 Classical Studies focuses on introducing the ancient world to students and on developing the skills necessary to study ancient history. The study of ancient history involves looking at all aspects of a society in order to piece together what life would have been like, beliefs and values of the people of that time and the major historical events of the period. The topics covered are Socrates, a study of the Aeneid by Virgil and Greek vase painting.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90514	Classical Studies 3.4	Complete independent research on an area of the classical world	Internal	6
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90511	Classical Studies 3.1	Explain a passage or passages from a work of classical literature in translation	External	6
AS90512	Classical Studies 3.2	Explain a work or works of classical art	External	6
AS90513	Classical Studies 3.3	Explain in essay format an aspect of the classical world	External	6
Possible Credits Available			24 credits	

<i>Course Prerequisites</i>	12 credits in NCEA Level 2 Classical Studies, History or English.
<i>Fieldwork</i>	To be confirmed.
<i>Approximate Course Costs</i>	To be confirmed.
<i>Course Leads to</i>	Tertiary Study in Classical Studies and English.
<i>Course Provider/Assessor</i>	Botany Downs Secondary College
<i>Teacher in charge of subject</i>	Ms Jacobsen
<i>HOLA in charge of subject</i>	Ms Derbyshire

DANCE

Course Name	Year 13 Dance
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

The Year 13 course will focus on the following: Choreographing and performing dance for performance. Dance is a subject which explores a range of dance techniques, Choreography and Dance theories. Dance at level two is both physically demanding and mentally challenging. Students are required to dance and complete a logbook daily. The level two dance programme has a strong New Zealand focus, utilising New Zealand Choreographers as artist models. Students will develop a range of dance techniques (such as Contemporary dance, Creative dance, NZ Dance, Pilates, etc) from a variety of sources and guest tutors, as well as a broad range of choreographic tools for dance making. Students are required to rehearse as part of their ongoing homework in this subject. Students will be required to view a minimum of two live dance performances.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90954	Dance 3.1	Integrate dance elements, devices, and structure to develop a concept and choreograph a dance for performance.	Internal	9
AS90955	Dance 3.2	Integrate dance elements, devices, and structure to perform a solo or duet dance for an audience.	Internal	3
AS90956	Dance 3.3	Perform in a choreographed group dance to an audience.	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90597	Dance 3.4	Critically analyse and respond to a dance performance.	External	4
Possible Credits Available			18 credits	

<i>Course Prerequisites</i>	Level 2 Dance, Level 2 English
<i>Fieldwork</i>	Field trip and costs are yet to be confirmed
<i>Approximate Course Costs</i>	\$57 (\$50)
<i>Course Leads to</i>	Tertiary Study
<i>Course Provider/Assessor</i>	Botany Downs Secondary College
<i>Teacher in charge of subject</i>	Ms Rakanui
<i>HOLA in charge of subject</i>	Ms Rakanui

DRAMA

Course Name	Year 13 Drama
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

This course is a progression from Year 12 Drama. The course provides an opportunity to use and explore the elements, conventions, techniques and technologies in specific dramatic forms. They will rehearse and perform works in a range of dramatic forms. Class work is a mixture of group and individual tasks, and it is important for students to work co-operatively in a group. The Arts curriculum presents Drama under the following strands - Developing practical knowledge in Drama, Developing ideas in Drama, Communicating and interpreting meaning in Drama and Understanding Drama in context. Please be aware that most Achievement Standards will be assessed during public evening performances.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA

NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90608	Drama 3.2	Interpret scripted text and integrate drama techniques in solo or paired performance	Internal	5
AS90609	Drama 3.3	Devise, script and perform drama for solo, duo or trio performance	Internal	5
AS90611	Drama 3.5	Research and carry out a performance or technical/production role in a significant production	Internal	6
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90612	Drama 3.6	Analyse drama processes in a new context and reflect critically on drama performance	External	4
Possible Credits Available				20 credits

Course Prerequisites
Fieldwork 14 credits in NCEA Level 2 Drama or HOD approval
Students will be required to see at least two productions in preparation for the external exam - productions and costs to be advised.

Approximate Course Costs
Course Leads to Course Handbook and Fieldwork expenses - to be advised
Course Provider/Assessor Tertiary Study
Teacher in charge of subject Botany Downs Secondary College
HOLA in charge of subject Mr Bentley
Mr Bentley

ECONOMICS

Course Name	Year 13 Economics
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

Level 3 Economics splits into two sections. It starts by building upon Level 2 to look at Aggregate Economics, sometimes called macroeconomics. This area investigates the whole economy, looking at GDP, Inflation, international trade and influential government policies. Then we move into microeconomics, which focuses on the economics of individual markets and how the characteristics of and influences on these markets affect their ability to efficiently answer the central economic problem of scarcity. Here we look at how economic builds more complicated models, looking at extending the ideas behind demand and supply and also looking at various forms of competition and monopoly.

Note: US5867 can not be counted at the same time as AS90632. Students can only receive credits from one of these standards.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA

NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90778	Economics 3.5	Collect and process information, and carry out an economic analysis	Internal	5
US5867	-	Demonstrate and explain national income determination	Internal	5
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90629	Economics 3.1	Understand marginal analysis and the behaviour of firms	External	5
AS90630	Economics 3.2	Describe an economic problem, allocative efficiency, and market responses to change	External	4
AS90631	Economics 3.3	Describe market failure and government interventions to correct for market failure	External	4
AS90632	Economics 3.4	Describe aggregate economic activity	External	6
Possible Credits Available			23 or 24 credits	

Course Prerequisites
Fieldwork 12 credits in NCEA Level 2 Economics or Head of Commerce approval
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Approximate Course Costs
Course Leads to Course Workbook - \$50 (\$44) (2 Books)
Tertiary Study in commerce/business, marketing, construction economics (quantity surveying), forestry, farm management, journalism and teaching. Careers in manufacturing, transport, communications, banking, insurance, investment and retailing industries, as well as in government agencies, consulting and charitable organisations.

Course Provider/Assessor
Teacher in charge of subject Botany Downs Secondary College
Mr Sharma
HOLA in charge of subject Ms Derbyshire

ELECTRONICS

Course Name	Year 13 Electronics
Qualification and level	NCEA Level Three and NCET Level Three
Target Group	Students intending to study electronics at tertiary level or gain employment in the electronics technology industry.

Course Outline

Electronics is the study and design of control, communication and computing devices that depend on electricity in circuits that contain different components. This course is for people who want to understand more about electronics or pursue a career in this field. Students will learn how to construct electronic circuits and use these to develop new products. They also learn how semi-conductor devices work, study the digital and analogue concepts and use these to understand and develop communication systems and investigate electronic product reliability. This course builds upon the knowledge and skills gained in the Level 2 course. It covers the function and use of additional electronic components and the construction of more advanced circuits. Analogue and digital electronics are covered in more detail as is the generation and transmission of electronic signals. Finally, programmable microcontrollers are studied in the context of mechatronics (smart machines). This qualification is at the level required to prepare students for electrical and electronics tertiary programmes. To gain the National Certificate in Electronics Technology (NCET) Level 3, an additional 16 Level 3 credits are required from any of the following domains. Computing and Information Technology, Computing, Any Engineering and Technology, Technology; General Education Sciences, Mathematics. Any Sciences: Science, Chemistry, Physics, core Mathematics Statistics and Probability.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
US19743	-	Study of Semi-conductor devices	Internal	4
US19744	-	Digital and Analogue electronics	Internal	5
US19745	-	Transmission of Signals	Internal	5
US19746	-	Electronic product reliability.	Internal	5
US19747	-	Microcontroller projects	Internal	5
US9221	-	Develop new Electronic Products.	Internal	3
Possible Credits Available			27 credits	

Course Prerequisites 14 credits in NCET Level 2 Electronics including US 18239 (circuit theory) and 12 Credits in Level 2 Mathematics (Achievement Standards).

OR 10 or more credits in Year 12 Physics including Electricity (AS90257)

Fieldwork Workplace/tertiary provider visits as possible (tba).

Approximate Course Costs Course Workbook - \$34 (\$30); Projects - \$46 (\$40) (approx.) NCET \$17 (\$15)

Course Leads to Tertiary study in electronics and electrical engineering

Course Provider/Assessor Botany Downs Secondary College

Teacher in charge of subject Mr Kumar

HOLA in charge of subject Mr Hart

ENGLISH ESOL

Course Name	Year 13 English ESOL
Qualification and level	NCEA Level TWO
Target Group	Students wishing to gain level 2 English Literacy credits

Course Outline

This course is a continuation of the year 12ENS course, which is a two year programme. 13ENS continues to offer the opportunity to develop the four skills necessary for ESOL students (listening, speaking, reading and writing). It also concentrates on transactional texts and a language research into a specialised area of the students' choice (e.g. language of science, medicine, sport or any other). For students whose development needs a two-year period, this course continues for that length of time. To achieve these aims we would like our students to: develop control over the processes associated with using and responding to language effectively and purposefully through: reading, writing, speaking, listening, viewing and presenting; develop an understanding of the structures and conventions of language and how language varies according to audience and purpose; respond personally to and think critically about a range of texts, including literary ones; use language skills to identify information needs and find, use and communicate information; understand and appreciate the cultural heritages of New Zealand through experiencing a broad range of texts written in English.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90374	English 2.7	Deliver a presentation using oral and visual language.	Internal	3
AS90381	English 2.8	Investigate a language topic and present information in written format	Internal	3
US12420	-	Read transactional text closely	Internal	4
US8825	-	Produce transactional written texts in complex forms	Internal	5
US 8823	-	Investigate a theme across an inclusive range of selected texts.	Internal	4
US 17359	-	Talk about self in a formal interview using ESOL – level 3	Internal	5
US 15009	-	Understand spoken information in a range of contexts using ESOL – Level 3	Internal	5
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90377	English 2.3	Analyse extended written text(s)	External	3
AS90379	English 2.5	Analyse a visual or oral text	External	3
Possible Credits Available over the two year period			25 Eng 10 ESOL	

Course Prerequisites

8 credits (Literacy) at Level 1 English or at discretion of HOLA

Fieldwork

There may be attendance required at the occasional film and/or theatre performance.

Approximate Course Costs

Text/Workbook \$23 (\$20) Theatre/film attendance \$17 (\$15)

Course Leads to

Tertiary Study.

Course Provider/Assessor

Botany Downs Secondary College

Teacher in charge of subject

Ms Donovan

HOLA in charge of subject

Ms Sturgess

ENGLISH LEVEL 2 AT YEAR 13

Course Name	English Level 2 at Year 13
Qualification and level	NCEA Level Two
Target Group	Year 13 Students needing Level 2 Literacy

Course Outline

English is optional at Year 13. This course is designed for Year 13 students still requiring University Entrance literacy. This is a reading and writing-based course, necessary for entry to university and covers major reading and writing Unit Standards at Level 2. Study will be based on the study of literature using a range of texts and writing transactional texts.

For students who already have achieved at Level 2 thematic reading, the level 3 equivalent may be attempted, so for some students Level 3 English credits may be possible.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
US8823	-	Investigate a theme across an inclusive range of selected texts.	Internal	4
US8825	-	Produce transactional written texts in complex forms	Internal	5
AS90725	English 3.6	Construct and deliver an oral presentation	Internal	4
Possible Credits Available			Level 2: 9 credits Level 3: 4 credits	

Course Prerequisites	Level 1 English (literacy) and Level 2 course completed.
Fieldwork	-
Approximate Course Costs	Text/Workbook \$23 (\$20) Theatre/film attendance \$17 (\$15)
Course Leads to	University Entrance
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Stuart
HOLA in charge of subject	Ms Sturgess

ENGLISH U BAND

Course Name	Year 13 English U Band
Qualification and level	NCEA Level Three
Target Group	Students intending tertiary study

Course Outline

English is optional at Year 13. This is an academic course and covers 6 Achievement Standards at Level 3, amounting to 21 credits. Study will be the study of literature with substantially more advanced resources (texts, film) than at Level 2. The course is designed for students who wish to study English at university. To achieve these aims we would like our students to: develop control over the processes associated with using and responding to language effectively and purposefully through: reading, writing, speaking, listening, viewing and presenting; develop an understanding of the structures and conventions of language and how language varies according to audience and purpose; respond personally to and think critically about a range of texts, including literary ones; use language skills to identify information needs and find, use and communicate information; understand and appreciate the cultural heritages of New Zealand through experiencing a broad range of texts written in English.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90720	English 3.1	Produce an extended piece of writing in a selected style	Internal	4
AS90725	English 3.6	Construct and deliver an oral presentation	Internal	4
AS90726	English 3.7	Complete independent research on a language or literature topic and present conclusions in writing.	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90721	English 3.2	Respond critically to written text(s) studied	External	3
AS90722	English 3.3	Respond critically to Shakespearean drama studied	External	3
AS90723	English 3.4	Respond critically to oral or visual text studied	External	3
Possible Credits Available				21 credits

Course Prerequisites	Level 2 English and to include passes in two external and two internal
Fieldwork	There may be attendance required at the occasional film and/or
Approximate Course Costs	Working text: \$23 (\$20), Film/theatre attendance \$17 (15)
Course Leads to	Tertiary Study
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Stuart
HOLA in charge of subject	Ms Sturgess

ENGLISH W BAND

Course Name	Year 13 English W Band
Qualification and level	NCEA Level Three
Target Group	Students wanting to complete Level 3 English

Course Outline

English is optional at Year 13. This is a Level 3 course and covers a range of Achievement Standards and Unit Standards at Level 3 offering a total of 20 credits. (14 credits Achievement Standard and 6 credits Unit Standards). This course is meant for students who do not wish to study English at tertiary level, but who would like Level 3 English for other tertiary study and need 18 credits at Level 3 in one subject. Study will be similar to that at Level 2 - the study of literature with substantially more advanced resources (texts, film). This option is a writing-based course.

Note: This course is currently under review and may change.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
US8835	-	Produce sustained transactional writing in a range of complex	Internal	6
AS90725	English 3.6	Construct and deliver an oral presentation	Internal	4
AS90720	English 3.1	Produce an extended piece of writing in a selected style.	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90721	English 3.2	Respond critically to written text(s) studied	External	3
AS90723	English 3.4	Respond critically to oral or visual text studied	External	3
Possible Credits Available			20 credits	

Course Prerequisites	Level 2 English
Fieldwork	There may be attendance required at the occasional film and/or
Approximate Course Costs	Text/Workbook \$23 (\$20) Theatre/film attendance \$17 (\$15)
Course Leads to	Tertiary Study.
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Stuart
HOLA in charge of subject	Ms Sturgess

FASHION & DESIGN TECHNOLOGY

Course Name	Year 13 Fashion & Design
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

This course focuses on refining the creative and technical skills required to pursue a career in the fashion or textiles industries. It provides the opportunity for students to gain up to 26 credits at Level 3. There is no examination and no external assessment. The course will begin with a short project to encourage creative thinking and develop new skills (US6700). Students will then build a portfolio of work using a technological approach to develop innovative and creative problem solving skills (AS 90613, 90620, 90687). A key feature of the main project for Level 3 is to choose an authentic issue and client to work with. Depending on the student's personal interest, a client could be chosen with a need in a variety of areas within the textiles industry, such as; fashion, theatre, or interior design. Use of a wide range of practical skills is encouraged to reinforce and further develop their learning. Students who partake in this course will be preparing themselves for tertiary study in fashion, costume or interior design or to pursue a career in the textiles industry.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90613	Technology 3.1	Develop a conceptual design to address a client issue	Internal	8
AS90620	Technology 3.2	Develop a one-off solution to address a client issue	Internal	8
AS90687	Technology 3.7	Demonstrate techniques in materials technology	Internal	4
US6700	-	Prepare for and construct a textile item for specified purpose	Internal	6
Possible Credits Available			26 credits	

Course Prerequisites	12 credits in NCEA Level 2 Technology or 20 credits in Level 1 Technology
Fieldwork	Student may have on-going field work to confer with their chosen client.
Approximate Course Costs	Visit from a variety professionals in the area of fashion. \$35 (\$30) to cover basic materials. Students are to supply their own fabric and pattern for garment production.
Course Leads to	Tertiary Study in Design and technology related studies
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Gast
HOLA in charge of subject	Mr Achary

FINANCE

Course Name	Year 13 Finance
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

The course aims to foster financial understanding, improve investor skills, and provide a format for designing a life strategy. It takes a more analytical approach than the Financial Literacy program and is expected to qualify for NCEA Credits. Year 13 Finance covers such topics as investments, financial planning, student loans, external influences on investment decisions. Year 13 Finance is about personal financial management for the future whereas Year 12 Financial Literacy is about personal financial management for the present.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
US24703	-	Demonstrate and apply knowledge for Credit for PFM	Internal	3
US24696	-	Demonstrate knowledge of personal income, credit, and the impact of employment decisions on them	Internal	5
US24708/	-	Set a complex personal financial goal and plan its implementation	Internal	3
US24711	-	Produce and manage a balanced complex budget for family or household	Internal	4
US25247	-	Demonstrate knowledge of risk, return and diversification	Internal	3
Possible Credits Available			18 credits	

Course Prerequisites	60 credits at NCEA level 2 including 8 credits in L2 Maths. Students who do not meet the prerequisites may make an application for this course
Fieldwork	To be advised
Approximate Course Costs	\$29 (\$25) TBC
Course Leads to	Further study in Finance, Business, Commerce programmes
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Mr Sharma
HOLA in charge of subject	Ms Derbyshire

FOOD & HOSPITALITY

Course Name	Year 13 Food and Hospitality
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

This course is a continuation of Hospitality from year 12 and incorporates further opportunity to develop skills in food and beverage service, catering and cookery at Levels 2 and 3. In conjunction with MIT and HSI, students will be introduced to the Art of Coffee Making and Food and Beverage Service incorporating hands-on experience in the food industry. Students will be expected to participate in at least one foods competition at secondary level this year in order to gain further experience in the hospitality industry. Links will be in place with tertiary institutions whereby assessments in a commercial kitchen will be carried out. There is also the expectation that students choosing to take this course will show a high level of commitment, energy and resourcefulness in order to complete the year's study. The course will comprise of 22 credits from the below list of Standards.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
US17285	-	Demonstrate knowledge of espresso coffee equipment and recipes	Internal	2
US17288	-	Prepare and present espresso beverages for services	Internal	3
US14462	-	Maintain personal presentation and greet customers in the hospitality industry	Internal	2
US14434	-	Prepare and clear areas for table service in a commercial hospitality environment	Internal	3
US14436	-	Provide basic table service in a commercial hospitality environment	Internal	4
US14425	-	Prepare and serve hot and cold non-alcoholic drinks in a commercial hospitality environment	Internal	2
US15627	-	Demonstrate creativity in meal preparation and presentation	Internal	6
US6648	-	Prepare, plan and serve food for a special occasion	Internal	4
Possible Credits Available			26 credits	

Course Prerequisites	12 credits in NCEA Level 2 Technology or 20 credits in Level 1 Technology
Fieldwork	1-2 day field trip to Chats - MIT (Lunch) and visit to food industry or from food industry personnel
Approximate Course Costs	Course Handbook x2 -\$46 (\$40), Fieldwork expenses - \$34 (\$30), Course Fees-\$172(\$150), Competition Fee \$29 (\$25) (if student plans to enter) students may be requested to bring food items
Course Leads to	Tertiary Study at MIT / AUT or other - Hospitality / Catering / Management / Modern Apprenticeship opportunity
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Rehu
HOLA in charge of subject	Mr Achary

FOOD TECHNOLOGY

Course Name	Year 13 Food Technology
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

This course offers two areas of study, allowing for the continuation of Food Technology studies, as well as Hospitality and Catering at Levels 2 and 3. Those students who have studied year 11 and year 12 Technology - Foods, should opt for this course, as a continuation of their previous years work. The inclusion of hospitality units, catering, food and beverage (Art of Coffee Making) service allows for continued hands-on experience which are requirements in the food industry. Students will be expected to participate in at least one foods competition at secondary level this year, in order to gain further experience in the hospitality industry. Links will be in place with tertiary institutions whereby assessments in a commercial kitchen will be carried out. There is also the expectation that students choosing to take this course will show a high level of commitment, energy and resourcefulness in order to complete the year's study. The course will comprise of 24 credits from the list of Standards shown below.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90613	Technology 3.1	Develop a conceptual design to address a client issue	Internal	8
AS90620	Technology 3.2	Develop a one-off solution to address a client issue.	Internal	8
AS90683	Technology 3.5	Demonstrate techniques in food technology	Internal	4
US17285	-	Demonstrate knowledge of espresso coffee equipment and recipes	Internal	2
US17288	-	Prepare and present espresso beverages for services	Internal	3
US14462	-	Maintain personal presentation and greet customers in the hospitality industry	Internal	2
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90686	Technology 3.6	Explain knowledge that underpins a food technology outcome.	External	4
AS90676	Technology 3.7	Describe technologists responsibilities to the wider community	External	4
Possible Credits Available			24 credits	

Course Prerequisites	12 credits in NCEA Level 2 Technology or 20 credits in Level 1 Technology
Fieldwork	One day field trip to a local industry and an ongoing visit to work with a chosen client.
Approximate Course Costs	Course Handbook X 1 - \$23 (\$20), Fieldwork expenses - \$34 (\$30), Course Fees-\$172 (\$150), Competition Fee \$29 (\$25)(if student plans to enter) students may be requested to bring food items
Course Leads to	Tertiary Study in Technology studies— Technologist /Hospitality /Food Industry
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Rehu
HOLA in charge of subject	Mr Achary

FRENCH

Course Name	Year 13 French
Qualification and level	NCEA Level Three
Target Group	Year 13 students who wish to carry on French from Year 12

Course Outline

This course consolidates students' confidence to express and exchange ideas to establish real communication in French. Students will gain the skills to understand authentic and up to date materials (magazines, movies, internet sites), to express opinions, to retell stories and events, to present facts and arguments to inform, persuade on a range of topics such as a French region of your choice, your future career, current environmental, cultural and social issues. Students will complete all internal assessments and will have a choice of 2 external assessments

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90559	French 3.2	Give a prepared speech in French using complex language	Internal	3
AS90560	French 3.3	Engage in an extended conversation in French using complex language in less familiar contexts	Internal	3
AS90563	French 3.6	Produce crafted writing in French using complex language, with the support of resources	Internal	3
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90558	French 3.1	Listen to and understand complex spoken French in less familiar contexts	External	6
AS90561	French 3.4	Read and understand written French containing complex language, in less familiar contexts	External	6
AS90562	French 3.5	Write text in French using complex language on a less familiar topic	External	3
Possible Credits Available			24 credits	

Course Prerequisites	12 credits in NCEA Level 2 French including credits in either AS90396 or AS90397 and credits in AS90398
Fieldwork	Possible competitions: Alliance Francaise Speaking Competition. \$12 (\$10)
Approximate Course Costs	Course write on note workbook and revision booklet - \$29 (\$25) Yearly subscription to Zut.org and Language Perfect website \$16 (\$13)
Course Leads to	Tertiary Study
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms McMillan
HOLA in charge of subject	Ms McMillan

GEOGRAPHY

Course Name	Year 13 Geography
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

Geography is a practical study of our environment and the way people have changed it to meet their needs. Geographers try to understand what makes up the natural and cultural environment. As a geographer you will develop the ability to synthesise material from a range of sources. The transferable skills developed in the study of Geography will be of huge benefit to students intending to study at University. The Year 13 course will cover the following key themes and settings: Natural Processes focused on the coastal environment of Muriwai Beach and Tourism Development focused on the New Zealand setting of Rotorua and an overseas setting of the Gold Coast. Year 13 Geographers will also complete studies about world patterns and processes as well as a study of an important contemporary geographic issue. Carrying out research within a local community will enable students to apply a range of practical skills.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA

NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90705	Geography 3.5	Carry out and present geographic research with consultation	Internal	3
AS90706	Geography 3.6	Analyse a contemporary geographic issue and evaluate courses of action	Internal	3
AS90707	Geography 3.7	Analyse a geographic topic at a global scale	Internal	3
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90701	Geography 3.1	Analyse natural processes in the context of a geographic environment	External	4
AS90702	Geography 3.2	Analyse a cultural process	External	4
AS90704	Geography 3.4	Select and apply skills in a geographic context	External	4
Possible Credits Available			21 credits	

Course Prerequisites 12 credits in NCEA Level 2 Geography, Level 2 English (Achievement Standards) or Level 2 History.

Fieldwork One day field trip to Muriwai Beach and a three day fieldtrip to Rotorua.

Approximate Course Costs Fieldwork expenses - \$388 (\$330) (Rotorua), \$34 (\$30) (Muriwai)

Course Leads to Tertiary Study

Course Provider/Assessor Botany Downs Secondary College

Teacher in charge of subject Ms Brodie

HOLA in charge of subject Ms Derbyshire

GRAPHICS

Course Name	Year 13 Graphics
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

This course will build on the experiences of Level 2 and will enable students to apply their acquired knowledge to a Graphics area of their choice. Students will select a stakeholder/client who they will work with to establish and produce an outcome to a design need. These design opportunities will enable students through their selection to explore areas of graphics that better suit their interests and strengths. Students will choose from one of the following design areas: architectural/environmental design, engineering/technological design or media/technical illustration design. This will enable them to achieve in both the internal and external achievement standards through the production of design work, working drawings, models and through testing and evaluation. They will also plan and produce illustrative presentation portfolios suitable for presentation to their client for final approval.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA

NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
Two of AS90736	Graphics 3.3	Develop and communicate a solution to an architectural or environmental design brief	Internal	5 each
or AS90737	Graphics 3.4	Develop and communicate a solution to an engineering or technological design brief		
or AS90738	Graphics 3.5	Develop and communicate a solution to a media or technical illustration design brief		
US19355	-	Produce scale production drawings using computer aided draughting (CAD) programs	Internal	8
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90734	Graphics 3.1	Negotiate a brief and a solution by applying a design process	External	5
AS90735	Graphics 3.2	Plan and produce a presentation to communicate design ideas	External	4
Possible Credits Available			27 credits	

Course Prerequisites 15 credits in NCEA Level 2 Graphics or 20 credits in Level 1 Graphics

Fieldwork Possible visitation to work with a chosen client.

Approximate Course Costs \$23 (\$20)

Course Leads to Tertiary Study in Graphics Design studies

Course Provider/Assessor Botany Downs Secondary College

Teacher in charge of subject Mr Brinsden

HOLA in charge of subject Mr Achary

HEALTH EDUCATION

Course Name	Year 13 Health Education
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

Health Education at Level 3 level builds on the knowledge that students have gained from Level 2. This course shifts away from personal and interpersonal issues that previous courses have focused on and takes a look at the many societal issues affecting our wellbeing. During this course students will analyse a health issue that is current in New Zealand's society as well as analysing a current international health issue. Students will also examine a contemporary dilemma and/or ethical issue in relation to well-being and as well as examining models of health promotion and their implications for well-being.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90708	Health Ed 3.1	Analyse a health issue for a particular group within New Zealand Society.	Internal	5
AS90710	Health Ed 3.3	Explain a range of health practices currently used in New Zealand	Internal	5
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90709	Health Ed 3.2	Analyse an international health issue	External	5
AS90711	Health Ed 3.4	Explain a contemporary dilemma or ethical issue in relation to well-being	External	4
AS90712	Health Ed 3.5	Examine models of health promotion and their implications for wellbeing	External	5
Possible Credits Available			24 credits	

Course Prerequisites	10 credits in NCEA Level 2 Health Education or HOLA approval
Fieldwork	-
Approximate Course Costs	Course Workbooks - \$17 (\$15)
Course Leads to	Tertiary Study in Health Education Courses
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms C Joyce (JE)
HOLA in charge of subject	Ms Williams

HISTORY

Course Name	Year 13 History
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

Level 3 History is the culmination of the course providing a transition to tertiary studies. It contains a compulsory area of study which covers an extended period of time and demands a higher level of thinking. Through this study students will develop skills in research, interpretation, evaluation, historical empathy and analysis. There is a shift in emphasis towards a consideration of historical method, and historiography – what is involved in the craft of the historian. Students are expected to argue a convincing case in answer to searching historical questions. By the end of the course students will have studied in depth some key historical developments of yesterday's world which will contribute to understanding their society. At Level 3 the students will either study 'England 1558 to 1667' or 'New Zealand in the Nineteenth Century'.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90654	History 3.1	Plan and carry out independent historical research	Internal	4
AS90655	History 3.2	Communicate and present historical ideas clearly to show understanding of an historical context	Internal	5
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90656	History 3.3	Analyse and evaluate evidence in historical sources	External	5
AS90657	History 3.4	Examine a significant decision made by people in history, in an essay	External	5
AS90658	History 3.5	Examine a significant historical situation in the context of change, in an essay	External	5
Possible Credits Available			24 credits	

Course Prerequisites	12 credits in NCEA Level 2 Achievement Standards History, Classical Studies or English (including at least <u>one</u> of AS90469, AS90470, AS90377, or AS90249).
Fieldwork	Trip to Waiouru Army Museum as part of AS90654
Approximate Course Costs	\$121 (\$103) -TBC
Course Leads to	Tertiary Study in History or any University research based course
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Douglas
HOLA in charge of subject	Ms Derbyshire

Course Name	Year 13 ICT
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

This course is based on the Technology Curriculum and will be assessed against Technology Achievement Standards. It provides the opportunity for students to gain up to 24 credits at Level 3

Students will adopt a technological approach to their work and develop innovative and creative problem solving skills. Self driven skill development is strongly encouraged along with the learning and adaptation of standard techniques and processes.

An important feature of this course will include students choosing a “real world” issue and client to work with. Therefore students will be required to carry out on going visits to work with their client in order to develop a solution that address the client’s issue. They will explain the knowledge that underpins a successful outcome and also demonstrate the incorporation of appropriate techniques.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90613	Technology 3.1	Develop a conceptual design to address a client issue.	Internal	8
AS90620	Technology 3.2	Develop a one-off solution to address a client issue.	Internal	8
AS90685	ICT 3.7	Demonstrate techniques in ICT	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90684	ICT 3.6	Explain knowledge that underpins an ICT outcome.	External	4
Possible Credits Available			24 credits	

Course Prerequisites	16 credits in NCEA Level 2 ICT
Fieldwork	On going visits to work with client.
Approximate Course Costs	Manual(s) for required software ~ \$69 (\$60) Suggested: USB storage device ~\$23 (\$20)
Course Leads to	Tertiary Study ICT related areas
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Mr McKenna
HOLA in charge of subject	Mr McKenna

Course Name	Year 13 Japanese
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

How many languages you know - that many times you are a person. (Pavlo Tychyna, Ukrainian proverb)

A practical course that looks at language survival skills and developing fluency in the language so that the students can visit Japan independently in the future if they desire. Topics in focus include: Shopping and Eating Out, Planning a Trip and Travelling in Japan. Year 13 students will also complete a unit on Future Plans and Work which looks at careers where they can use their Japanese. At Year 13, students also have the option of also attempting the Writing with Resources Achievement Standard. This is at the discretion of the teacher.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90571	Japanese 3.2	Give a prepared spoken presentation in Japanese on a less familiar topic	Internal	3
AS90572	Japanese 3.3	Converse in Japanese in a less familiar context	Internal	3
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90570	Japanese 3.1	Listen to and understand spoken language in Japanese in less familiar contexts	External	6
AS90573	Japanese 3.4	Read and understand written language in Japanese in less familiar contexts	External	6
AS90574	Japanese 3.5	Write text in Japanese on a less familiar topic	External	3
Possible Credits Available			21 credits	

Course Prerequisites	12 credits in NCEA Level 2 Japanese including standard 90487 (Reading)
Fieldwork	Possible competitions: JETAA DVD Competition, Japanese Inter-School Debating Competition
Approximate Course Costs	Subject fee~ \$7 (\$8); Write on Notes and workbook ~\$41 (\$48)
Course Leads to	Tertiary Study
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Lodge
HOLA in charge of subject	Ms McMillan

JOURNALISM

Course Name	Year 13 Journalism
Qualification and level	NCEA Level Three
Target Group	Senior students interested in pursuing Journalism as a career, or who have a particular interest in writing for publication.

Course Outline

The BDSC Journalism course offers students the opportunity to prepare for and produce a tabloid newspaper. It allows for students to continue at Year 13 and/or to complete Level 3 Unit Standards in their Year 12 or Year 13 year. This course prepares students for further study at tertiary institutions where media studies and journalism courses are offered. The course goes hand in hand with Year 12/13 Photography and Year 12/13 Media Studies. Year 13 students taking Journalism for the first time would need to take Level 2 Unit Standards. These students could also be contributing towards the school magazine.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
US10826	-	Identify and research news stories	Internal	3
US10829	-	Lay out pages for publication	Internal	2
US10928	-	Write a variety of stories for print	Internal	5
US10827	-	Write feature stories	Internal	4
US10830	-	Manage a team in the production of a print publication	Internal	5
Possible Credits Available			19 credits	

Course Prerequisites
Fieldwork

12 credits in Level 2 Journalism
Students will be expected to interview within the school and within the community. They will also need to "sell and design" advertising and take photographs.

Approximate Course Costs
Course Leads to

Students will need access to a good digital camera and a dictaphone/notetaker.
Journalism courses at tertiary level/Communication courses including human resources.

Course Provider/Assessor
Teacher in charge of subject
HOLA in charge of subject

Botany Downs Secondary College
Ms Vickers
Ms Sturgess

MULTI MATERIALS TECHNOLOGY

Course Name	Year 13 Multi Materials Technology
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

This course is based on the Technology Curriculum and will be assessed against a four Technology Achievement Standards. It provides the opportunity for students to gain up to 20 credits at Level 3. There is no examination; however two Achievement Standards will be assessed through external marking. Students will use a technological approach to develop innovative and creative problem solving skills. Advanced practical skills in a wide range of materials are encouraged along with the learning of techniques and processes. A key feature of students practice will include choosing an authentic issue and a client to work with. Units of work may require students to: Develop a one-off technological solution in Materials Technology to address a client issue; Describe technologists' responsibilities to the wider community; Explain knowledge that underpins a materials technology outcome; Demonstrate techniques in Materials technology.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90620	Technology 3.2	Develop a one-off solution to address a client issue.	Internal	8
AS90687	Technology 3.7	Demonstrate techniques in materials technology	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90676	Technology 3.4	Describe technologists' responsibilities to the wider community.	External	4
AS90686	Technology 3.6	Explain knowledge that underpins a materials technology outcome.	External	4
Possible Credits Available			20 credits	

Course Prerequisites

12 credits in NCEA Level 2 Technology or 20 credits in Level 1 Technology

Fieldwork

One day field trip to a local industry and an ongoing visit to work with a chosen client.

Approximate Course Costs
Course Leads to

\$69 (\$60)
Tertiary Study in Technology related studies

Course Provider/Assessor
Teacher in charge of subject
HOLA in charge of subject

Botany Downs Secondary College
Mr Achary
Mr Achary

MEDIA STUDIES

Course Name	Year 13 Media Studies
Qualification and level	NCEA Level Three
Target Group	Students wishing to enter the media industry.

Course Outline

Level 3 Media Studies is an extension of the level 2 course. Students will develop their skills of media analysis and focus on close reading of current affairs, research, genre study and the media industry. The practical component of the course will cover a major documentary production using a range of technologies. It is mandatory that students have successfully completed Media Studies at Level 2.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90600	Media Studies 3.2	Explain how meaning is created in media texts	Internal	4
AS90604	Media Studies 3.6	Complete and justify a concept and treatment for a media product	Internal	2
AS90606	Media Studies 3.8	Create a media product using appropriate media technology	Internal	6
AS90779	Media Studies 3.3	Investigate an aspect of media and explain its significance for New Zealand	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90599	Media Studies 3.1	Demonstrate understanding of a specific media industry	External	4
AS90602	Media Studies 3.4	Explain the relationship between a media genre and society	External	4
Possible Credits Available			24 credits	

Course Prerequisites	14 Credits at Level 2 Media Studies (one must be an external Achievement Standard – either AS90278 OR AS90279)
Fieldwork	Field trip to either a media industry, tertiary institution or a film viewing.
Approximate Course Costs	Text and workbook \$23 (\$20), DVDs and CDs \$11 (\$10).
Course Leads to	Tertiary Study
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Johnson
HOLA in charge of subject	Ms Sturgess

MUSIC STUDIES

Course Name	Year 13 Music Studies
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

The Year 13 Music Studies course shares the aim of the New Zealand Arts Curriculum which wants students to develop literacy in Music. Literacy in music involves the development of knowledge and skills relating to styles, genres, technologies, and musical structures. It implies an active appreciation of the conventions and contexts that relate to creating and to critically evaluating musical compositions and performances. As students listen to music, they develop understandings about music history, biography, and theory and enhance their understandings of the world through listening to music from diverse musical contexts. This course focuses on the analysis of music, understanding the way a composition is structured and understanding the background or context of musical works. It also gives students the opportunity to research an area or topic of music of their own choosing.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90497	Music 3.2	Examine the contexts which influence the expressive qualities of music	Internal	3
AS90499	Music 3.4	Research and present a music topic	Internal	6
AS90527	Music 3.6	Arrange Music	Internal	4
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90498	Music 3.3	Compare and contrast music works	External	8
AS90530	Music 3.5	Demonstrate an understanding of harmonic and tonal procedures in a range of music	External	3
Possible Credits Available			24 credits	

Course Prerequisites	10 credits in NCEA Level 2 Music or at the discretion of HOLA. The ability to read music is essential is those who intend to do NCEA Level 3 Music Studies.
Fieldwork	Attendance at concerts which relate to and support the student's focus of study.
Approximate Course Costs	Study scores \$34 (\$30)
Course Leads to	Tertiary Study in Music and Performing Arts Courses
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Treneman
HOLA in charge of subject	Ms Treneman

OUTDOOR EDUCATION

Course Name	Year 13 Outdoor Education
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

Outdoor Education provides students with opportunities to develop personal and social skills, to become active, safe and skilled in the outdoors, and to protect and care for the environment. Outdoor Education includes adventure activities and outdoor pursuits. Adventure activities foster students' personal and social development through experiences involving co-operation, trust, problem solving, decision making, goal setting, communication, leadership, responsibility and reflection. Through outdoor pursuits, students develop particular skills and attitudes in a range of outdoor settings. Outdoor pursuits will include a selection of whitewater kayaking, tramping, camping, bush survival, navigation, caving. This course involves a number of days out in the practical environment. Students must be aware that some of the camps and assessments will take place during after school hours, weekends and holidays. Students undertaking this course will need to catch up on other school work they miss and need to understand if this is not done they will not be able to attend out of school days. In 2009 this involved approximately 13 days of outdoor activities. Please note that a separate application form needs to be completed and approval is at the discretion of the Teacher i/c. These can be obtained from Miss S. Joyce (JY).

Standards for this course will be selected from those listed below and are at the discretion of the HOLA

NCEA Internal Achievement Standards/Unit Standards

Number	Subject Reference	Title	Internal/ External	Credits
US424	-	Respond to emergency care situation for an outdoor activity	Internal	5
US20160	-	Demonstrate knowledge of weather processes and their effects on outdoor recreation in New Zealand	Internal	2
US427	-	Cross Rivers	Internal	2
US428	-	Demonstrate on-track tramping skills for multi-night tramping	Internal	14
US430	-	Demonstrate bush survival skills	Internal	3
US448	-	Experience a caving trip (Level 1)	Internal	1
US20146	-	Demonstrate basic risk management for outdoor recreation	Internal	3
US20121	-	Demonstrate Kayaking skills on Grade 2 water (Level 2)	Internal	4
Possible Credits Available			34 credits	

Course Prerequisites

Applications forms can be obtained from and are subject to TIC approval. Some of the unit standards assessed in Level 3 OED have prerequisites that are assessed in Level 2 OED.

Fieldwork

Many offsite sessions including a white-water kayaking trip, tramping trips, a caving/ mountain trip, and a number of day excursions. Some weekend days will be used and some days during the school holidays.

Approximate Course Costs

Approx \$920 (\$800). (Real cost is around \$2000 but Star Funding supplements much of this cost. This is subject to receiving similar Star Funding that was given in 2009.

Course Leads to

Tertiary courses in Outdoor Recreation. Outdoor education instruction.

Course Provider/Assessor

Botany Downs Secondary College, Outdoor Providers - Big Foot Adventures

Teacher in charge of subject

Ms S Joyce (JY)

HOLA in charge of subject

Ms Williams

PHOTOGRAPHY

Course Name	Year 13 Photography
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

Students will continue studying Digital Photography and its many uses in today and tomorrow's technological world. Year 13 Photography builds on the Year 12 Photography work but requires a greater depth of analysis and justification of photographic methods. Presentation is also expected to be of a much higher standard. Using Photoshop, understanding file systems, setting up a studio with lights, planning, taking and creating digitised images and working as a team are some of the practical skills that will be enhanced during this course. Extra curricula involvement in the school's "Student Photography Team" may result in student's images appearing in school newsletters and magazine. There is no external examination, students will complete 2 projects throughout the year contributing to the required Standards. It is expected that students have their own good quality digital camera (at least 7MP and preferably with manual features or numerous scene modes) and own a storage device to transfer files to and from home (1 or 2 GB USB recommended). ***Students who do extremely well in Year 12 Art can apply to do Year 13 Photography. Note: this is an artistic subject. Students must be creative. Students must be ICT literate and be confident with using a computer.***

Standards for this course will be selected from those listed below and are at the discretion of the HOLA

NCEA Internal Achievement Standards/Unit Standards

Number	Subject Reference	Title	Internal/ External	Credits
AS90664	Visual Arts 3.2 Photography	Investigate and use ideas and methods in the context of a drawing study in photography	Internal	6
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90668	Visual Arts 3.3 Photography	Produce original work within photography to show extensive knowledge of art-making methods and ideas	External	14
Possible Credits Available			20 credits	

Course Prerequisites

16 credits in Year 12 Photography or Year 12 Visual Art (HOLA discretion applies)

Fieldwork

Possible visit to an Exhibition

Approximate Course Costs

\$57 (\$50)

Course Leads to

Tertiary Study

Course Provider/Assessor

Botany Downs Secondary College

Teacher in charge of subject

Ms Clapperton

HOLA in charge of subject

Mr Clark

PHYSICAL EDUCATION

Course Name	Year 13 Physical Education
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3 and Scholarship

Course Outline

Physical education promotes learning in, through and about movement. The year 13 course at Level 3 requires a more in depth study of how the body works and how to train it. This theory is applied to the practical situation. The contexts in the practical will vary but will include a selection of the following - Scuba Diving (optional), Golf, and personal fitness training programmes which you could choose to train for a duathlon, aquathlon, 10km run or half marathon. The optional course for scuba diving will use some out of school time. For AS 90742 your best mark from scuba or personal fitness training programme or golf will count. For the more academically able students can sit the National Scholarship Examination.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90739	Physical Ed 3.1	Apply knowledge to plan a physical activity programme or experience	Internal	3
AS90740	Physical Ed 3.2	Explain, with evidence, the effectiveness of a physical activity programme and its influence on hauora/wellbeing	Internal	3
AS90741	Physical Ed 3.3	Appraise performance and review a programme for performance improvement for self and others	Internal	5
AS90742	Physical Ed 3.4	Perform a physical activity to nationally developed performance standards	Internal	4
AS90743	Physical Ed 3.5	Examine a current physical activity event or issue impacting on New Zealand society	Internal	4
AS90744	Physical Ed 3.6	Examine a current physical activity and take action to influence the participation of others	Internal	5
US4383	-	Snorkel dive with safety. Level 2.	Internal	2
US4384	-	Scuba dive and perform rescues in open water to a maximum of 18 metres. Level 3.	Internal	7
Possible Credits Available			24-33 credits	

Course Prerequisites	11 credits in the Achievement Standards from NCEA Level 2 Physical Education or HOLA approval
Fieldwork	Scuba course and camp, off site fitness training, golf offsite.
Approximate Course Costs	Course Workbooks - \$17 (\$15), Scuba Diving expenses for those who choose to do Scuba Diving License - approx \$529 (\$450) (optional) Golf costs approx \$238 (\$202)
Course Leads to	Tertiary Study
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	
HOLA in charge of subject	Ms Williams

PHYSICS

Course Name	Year 13 Physics
Qualification and level	NCEA Level Three
Target Group	Students working towards tertiary physics or sciences or other related fields, e.g. engineering, medicine, architecture, optometry, computer science, sport and exercise science,

Course Outline

Physics is the study of matter, energy and forces. In physics at this level students develop understanding of physics concepts and principles and their applications. Practical investigations are a vital part of the course and contribute to the internal assessment towards NCEA Level 3 (AS90774). Outstanding students may choose to sit the Physics Scholarship exam at the end of the course. Students are required to carry out calculations using formulae and describe and explain physics concepts. Topics: 1. Experimental Physics; 2. Mechanics (translational, rotational and simple harmonic motion); 3. Waves; 4. Direct Current Electricity and Capacitance; 5. Electromagnetic Induction; 6. Alternating Current; 7. Atoms, Photons and Nuclei.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90774	Physics 3.1	Carry out a practical physics investigation with guidance, that leads to a mathematical relationship.	Internal	5
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90520	Physics 3.3	Demonstrate understanding of wave systems.	External	4
AS90521	Physics 3.4	Demonstrate understanding of mechanical systems.	External	6
AS90522	Physics 3.5	Demonstrate understanding of atoms, photons and nuclei.	External	4
AS90523	Physics 3.6	Demonstrate understanding of electrical systems.	External	5
Possible Credits Available			24 credits	

Course Prerequisites	14 credits in NCEA Level 2 Physics including AS 90255 (Mechanics) and 12 Credits in Level 2 Mathematics (Achievement Standards).
Fieldwork	There may be opportunities for careers-oriented visits and/or opportunities to explore real-work physics, e.g. amusement park physics (to be confirmed)
Approximate Course Costs	Fieldwork expenses - \$34-\$46 (\$30-\$40) (to be confirmed).
Course Leads to	Tertiary Study in Physics or related fields (see Target Group above).
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Mr Hart
HOLA in charge of subject	Mr Hart

PRACTICAL MUSIC

Course Name	Year 13 Practical Music
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

The Year 13 Practical Music course shares the aim of the New Zealand Arts Curriculum which wants students to develop literacy in Music. Literacy in Music involves the development of knowledge and skills relating to styles, genres, technologies, and musical structures. This course focuses on the composition and performance of music. While composing and performing, students are actively listening and developing aural sensitivity. The students will be given the opportunity to present performances as both a featured soloist and as a member of a group and compose a variety of pieces of music which demonstrate a range of technical and creative skills. This course will suit the student who enjoys performing and composing music.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90526	Music 3.1	Present a performance of a programme of music as a member of a group	Internal	4
AS90775	Music 3.6	Present a portfolio of musical composition	Internal	8
AS90776	Music 3.7	Prepare and present performances of music as a featured soloist	Internal	8
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90777	Music 3.8	Demonstrate aural skill across a range of musical styles and genres	External	4
Possible Credits Available			24 credits	

Course Prerequisites	10 credits in NCEA Level 2 Music or at the discretion of HOLA. The ability to read music and play an instrument is essential for those who intend to do NCEA Level 3 Practical Music.
Fieldwork	Attendance at concerts which relate and support the student's focus of study. Possible attendance at composition workshop.
Approximate Course Costs	Accompanist for solo performances \$115 (\$100) (approximate and optional)
Course Leads to	Tertiary Study in Music and Performing Arts Courses
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Ms Treneman
HOLA in charge of subject	Ms Treneman

SCIENCE

Course Name	Year 13 Science
Qualification and level	NCEA Level Three
Target Group	Students wishing to explore science as part of a more humanistic course or to keep a general interest in science so that they may consider further studies at tertiary level.

Course Outline

This course is a general science course that aims to develop scientific understanding that is important for informed citizens. Students taking this course will develop their scientific literacy through investigations, research and understanding important applications of science. These applications include genetic technologies, organic chemistry and applications of waves and radiation in society. In addition, students will also be challenged to explore their and others' views on a range of controversial issues in science. A contemporary astronomical event will also be researched.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90727	Science 3.1	Carry out a practical scientific investigation with guidance	Internal	4
AS90728	Science 3.2	Research a current scientific controversy	Internal	4
AS90733	Science 3.7	Report on a recent astronomical event or discovery	Internal	2
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90729	Science 3.3	Describe genetic processes	External	4
AS90730	Science 3.4	Describe selected organic compounds and their uses	External	4
AS90732	Science 3.6	Describe selected properties and applications of EMR, radioactive decay, sound and ultrasound	External	4
Possible Credits Available			22 credits	

Course Prerequisites	12 credits in NCEA Level 2 Sciences and 12 credits in Level 1 Mathematics (Achievement Standards).
Fieldwork	To be confirmed
Approximate Course Costs	Course Handbook - \$29 (\$25), Fieldwork expenses – (\$35) \$30 to be confirmed
Course Leads to	Tertiary Study in Physics or related fields
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	-
HOLA in charge of subject	Mr Hart

STATISTICS & MODELLING

Course Name Year 13 Statistics and Modelling
Qualification and level NCEA Level Three
Target Group Students working towards NCEA Level 3

Course Outline

This NCEA Level 3 course will assess all seven Statistics and Modelling Level 3 Achievement Standards giving a total of 24 credits. The aims of this course is to extend students' abilities to tackle modelling and problem-solving situations, to provide a first course on probability procedures based on the normal, binomial and Poisson distributions and to develop students' awareness of the usefulness and wide range of applications of statistics.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90641	Mathematics 3.1	Determine the trend for time series data	Internal	3
AS90645	Mathematics 3.5	Complete a statistical investigation involving bivariate data	Internal	3
AS90647	Mathematics 3.7	Use mathematical models involving curve fitting to solve problems	Internal	3
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90642	Mathematics 3.2	Calculate confidence intervals for population parameters	External	3
AS90643	Mathematics 3.3	Solve straightforward problems involving probability	External	4
AS90644	Mathematics 3.4	Solve equations	External	4
AS90646	Mathematics 3.6	Use probability distribution models to solve straightforward problems	External	4
Possible Credits Available			24 credits	

Course Prerequisites Minimum of 14 credits at level two Mathematics obtained from AS90289-Simulate probability and apply the normal distribution, AS90288-Statistics (AS90193-Statistics), AS90284-Algebra and AS90285-Non-Linear Graph. This must include a merit or higher in AS90289 as well as a merit or higher in one of AS90288 (AS90193), AS90284 or AS90285.

Fieldwork -

Approximate Course Costs Sigma Mathematics Workbook-\$29 (\$25) , Course Handbook \$11 (\$10), Casio graphic calculator fx-9750 GA+ is compulsory - approximately \$100.
Scholarship workbook : approximately \$29 (\$25)

Course Leads to This course will lead to University courses in biological sciences, statistics, commerce and any fields where data collection and analysis are important.

Course Provider/Assessor Botany Downs Secondary College
Teacher in charge of subject Ms Bennet
HOLA in charge of subject Ms Bennet

STATISTICS & MODELLING ALTERNATIVE

Course Name Year 13 Statistics and Modelling Alternative
Qualification and level NCEA Level Three
Target Group Students working towards NCEA Level 3

Course Outline

This NCEA Level 3 course will assess six Statistics and Modelling Level 3 Achievement Standards giving a total of 20 credits. The aims of this course is to extend students' abilities to tackle modelling and problem-solving situations, to provide a first course on probability procedures based on the normal, binomial and Poisson distributions and to develop students' awareness of the usefulness and wide range of applications of statistics.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90641	Mathematics 3.1	Determine the trend for time series data	Internal	3
AS90645	Mathematics 3.5	Complete a statistical investigation involving bivariate data	Internal	3
AS90647	Mathematics 3.7	Use mathematical models involving curve fitting to solve problems	Internal	3
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/External	Credits
AS90642	Mathematics 3.2	Calculate confidence intervals for population parameters	External	3
AS90643	Mathematics 3.3	Solve straightforward problems involving probability	External	4
AS90646	Mathematics 3.6	Use probability distribution models to solve straightforward problems	External	4
Possible Credits Available			20 credits	

Course Prerequisites Minimum of 12 credits at level two Mathematics(3 credits can be from AS90193) including AS90289-Simulate probability and apply the normal distribution, AS90288-Statistics (or AS90193-Statistics), AS90284-Algebra and AS90285-Non-Linear Graphs

Fieldwork

Approximate Course Costs Sigma Mathematics Workbook-\$29 (\$25), Course Handbook \$11 (\$10), Casio graphic calculator fx-9750GA+ plus is compulsory - approximately \$100.

Course Leads to This course will lead to University courses in biological sciences, statistics, commerce and any fields where data collection and analysis are important.

Course Provider/Assessor Botany Downs Secondary College
Teacher in charge of subject Ms Bennet
HOLA in charge of subject Ms Bennet

TRAVEL & TOURISM

Course Name	Year 13 Travel and Tourism
Qualification and level	NCEA Level Three
Target Group	Vocational students at Year 13 level

Course Outline

Year 13 Travel and Tourism is a vocational subject, students achieve unit standards which allow them to work towards study at tertiary level. Travel and Tourism is New Zealand's fastest growing industry, the school recognises this fact and the L3 course provides interested students with a foot in the door. In this course students will examine the New Zealand Tourism industry and aspects of regional tourism. Students will identify tourist destinations, key geographical features, attractions and activities in Australia. They will describe travel information that would assist tourists visiting Australia. Students will identify tourist destinations, key geographical features, attractions and activities in the Pacific Islands. They will describe travel information that would assist tourists visiting Pacific Islands.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
US18230	-	Demonstrate knowledge of Australia as a tourist destination	Internal	8
US18231	-	Demonstrate knowledge of the Pacific Islands as a tourist destination	Internal	8
US18238	-	Demonstrate knowledge of the tourism industry in New Zealand	Internal	6
US18228	-	Provide information about specific regions in New Zealand as tourist destinations	Internal	6
Possible Credits Available			28 credits	

Course Prerequisites	60 credits at level 2 - 8 in English (4 reading/4 writing). Students who do not meet the prerequisites may make an application for this course.
Fieldwork	Field trip to be advised
Approximate Course Costs	\$58.80 (\$50)
Course Leads to	Tertiary Study in Travel and Tourism Programmes
Course Provider/Assessor	Botany Downs Secondary College, Travel Careers & Training
Teacher in charge of subject	Ms Hartnett
HOLA in charge of subject	Ms Derbyshire

VISUAL ARTS

Course Name	Year 13 Visual Art
Qualification and level	NCEA Level Three
Target Group	Students working towards NCEA Level 3

Course Outline

Students will choose either Printmaking or Painting for their studies. They will engage in an in-depth study of either of these two disciplines. The course allows each student to follow an individual pathway in order to produce original work. To meet the requirements of the standards, students need to extend their knowledge of art making methods and ideas within their chosen field. Self, peer, collaborative and teacher assessment will be part of the learning process.

Standards for this course will be selected from those listed below and are at the discretion of the HOLA				
NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90659	Visual Art 3.1	Research and analyse approaches within established painting practice	Internal	4
Or AS90661		Research and analyse approaches within established printmaking practice		
AS90663	Visual Art 3.2	Investigate and use ideas and methods in the context of a drawing study in painting	Internal	6
Or AS90665		Investigate and use ideas and methods in the context of a drawing study in printmaking		
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90667	Visual Art 3.3	Produce original work within Painting to show extensive knowledge of art making methods and ideas	External	14
Or AS90669		Produce original work within Printmaking to show extensive knowledge of art making methods and ideas		
Possible Credits Available			24 credits	

Course Prerequisites	12 credits in NCEA Level 2 Visual Art
Fieldwork	-
Approximate Course Costs	-
Course Leads to	Tertiary Study in Fine Arts
Course Provider/Assessor	Botany Downs Secondary College
Teacher in charge of subject	Mr Clark
HOLA in charge of subject	Mr Clark

Notes



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