

Year 12 Options

ACCOUNTING

Level: Year 12

Qualification: NCEA Level 2
up to 19 credits

Prerequisite: Level 1 Accounting

This course is an extension from Level 1 Accounting. A study of Accounting will enable students to understand the processes involved in recording, classifying, analysing and interpreting financial information.

Course Outcomes

The course has been designed to offer those students with an interest in commerce, the opportunity to learn some of the essential processes in Accounting and enable a better grasp of the topic for those students intending to undertake commerce to a higher level. This course is an extension from Level 1 Accounting.

Course Outline

Standard	Title	Credits	Assessment
91175	Demonstrate an understanding of accounting processing using accounting software	4	Internal
91176	Prepare financial information for an entity that operates accounting subsystems	5	External
91179	Demonstrate understanding of an accounts receivable subsystem for an entity	3	Internal
91386	Demonstrate understanding of a inventory subsystem for an entity	3	Internal
91174	Demonstrate an understanding of accounting concepts for an entity that operates an accounts subsystems	4	External

For further information see – Mrs Lynda Duncan

AGRICULTURE

Level: Year 12

Qualification: NCEA Level 2
up to 20 credits

Prerequisite: None, although it is preferable to have completed Level 1 Agriculture or have some on-farm experience.

Year 12 Agriculture Achievement Standards have a strong focus on animal husbandry so we will study a range of commercially farmed livestock in New Zealand. Feeding, breeding and health issues are covered.

Depending on student needs, a selection of standards from the list below will be selected to complete, totalling a maximum of 20 credits.

Course Outline

Standard	Title	Credits	Assessment
AS 91923	Demonstrate understanding of livestock reproductive techniques in commercial production in New Zealand	4	Internal
AS 91925	Demonstrate understanding of interactions between livestock behaviour and NZ commercial management practices.	4	Internal
AS91928	Report on the environmental impact of the production of a locally produced primary product	4	Internal
AS91294	Demonstrate understanding of how NZ commercial management practices influence livestock growth and development	4	External
US19116	Demonstrate knowledge of livestock behaviour and welfare in a primary industry operation	3	Internal
US24623	Demonstrate knowledge of breeds and classes of cattle, and identification and records for cattle	2	Internal
US19145	Describe hydration, nutrition and sleep in relation to physical well-being of agricultural workers	4	Internal

Assessment Procedures

This course is internally assessed against Achievement Standards and Unit Standards. Endorsement is possible.

For further information see - Miss Sarah Stark

BIOLOGY

Level: Year 12

Qualification: NCEA Level 2
up to 22 credits

Prerequisite: Completion of a Level 1 Science course. No minimum level of achievement necessary.

Course Outcomes

Not only does Biology connect us to the world we live in, but it also provides an excellent starting point for many specialised fields including employment in science research, government departments, medicine and health, teaching, management and administration. It also provides a starting point for many University and Polytechnic courses.

What is Biology? Simply put, it is the study of life - life in all of its grandeur. From the very small algae to the very large elephant, life has a certain wonder about it. Biology looks at intricate relationships and the inner workings of living things. Students are required to complete several modules of work including Gene Expression, Ecology, Applied Biology, Cell Structure and Function and Animal Form and Function. The course standards will be selected from the standards below and will be based on student interest.

Course Outline

Standard	Title	Credits	Assessment
91153	Carry out a practical investigation in a biology context, with supervision.	4	Internal
91155	Demonstrate understanding of adaptations of plants and animals to their way of life	3	Internal
91157	Demonstrate understanding genetic variation and change.	4	External
91158	Investigate a pattern in an ecological community, with supervision.	4	Internal
91159	Demonstrate understanding of gene expression.	4	External
91160	Investigate biological material at the microscopic level.	3	Internal
91190	Investigate how organisms survive in an extreme environment	4	Internal

For further information see – Miss Llara MacGilloway or Mr Bruce Lee

CAREER READY

Level: Year 12

Qualification: NCEA Level
up to 21 credits

This course is designed for students who have an interest in increasing their knowledge of the important skills needed when leaving school. Flatting, taxation, banking, job interviews are just a few of the topics to be covered in this course. This course comprises of unit standards and achievement standards.

Course Outline

Standard	Title	Credits	Assessment
4261	Identify legal rights and obligations in relation to motor vehicle ownership and operation	3	Internal
12349	Describe knowledge of time management	3	Internal
28097	Analyse and select banking products and services in relation to personal income	3	Internal
12355	Describe strategies for managing stress	3	Internal
24695	Explain taxation and other deductions relating to personal income	2	Internal
1979	Describe employment agreement	3	Internal
12354	Describe legal implications of living in rented accommodation and means to prevent and resolve related problems	4	Internal

For further information see – Mrs Lynda Duncan or Miss Sarah Stark

CHEMISTRY

Level: Year 12

Qualification: NCEA Level 2
18 credits

Prerequisite: Completion of a Level 1 Science course. No minimum level of achievement necessary.

Course Outcomes

Did you ever wonder how they make banana lollies taste and smell the way they do? Why are cutting wheels tipped with diamonds? Chemistry is the subject that will reveal the reasons behind these and many other questions. You will study the composition and properties of matter, and the changes it undergoes. There are a wide variety of topics ranging from how to find out what chemicals are in a substance, to how plastics are made. Practical work is an essential part of this course.

Chemistry is important as a subject in its own right but it is also relevant to fields such as nursing, medicine, hairdressing, agriculture and biology. It is a prerequisite subject for some tertiary study.

Course Outline

Standard	Title	Credit	Assessment
91911	Carry out an investigation into a chemical species present in a sample using qualitative analysis	3	Internal
91163	Demonstrate understanding of the chemistry used in the development of a current technology	3	Internal
91164	Demonstrate understanding of bonding, structure and energy changes	5	External
91165	Demonstrate understanding of the properties of selected organic compounds	4	External
91167	Demonstrate understanding of oxidation-reduction	3	Internal

For further information see – Ms Janelle Eason or Miss Llara MacGilloway

COMPUTING

Level: Year 12

Qualification: NCEA Level 2
up to 18 credits

This is a Unit Standards course where students develop knowledge and skills in using different technologies to manage and develop digital content for an organizational environment.

Course Outcomes

Students will be able to use digital technology systems and software to develop a range of content for organizational requirements. They will also develop an understanding of office functions and effective file management processes. You will acquire skills in presentation development, document design, and website development.

Course Outline

Standard	Title	Credits	Assessment
29772	Manage files and folders using digital devices	2	Internal
29773	Produce digital images for a range of digital media	3	Internal
29769	Use the main features and functions of a word processing application for a purpose	3	Internal
29774	Use the main features and functions of a desktop publishing application to create documents for a purpose	4	Internal
29771	Use the main features and functions of a presentation application for a purpose	3	Internal
29775	Use the main features and functions of a web authoring and design tool to create a website	3	Internal

For further information see – Mr Adam Shaw

DESIGN AND VISUAL COMMUNICATION

Level: Year 12

Qualification: NCEA Level 2
up to 18 credits

Prerequisite: Level 1 Design and Visual Communication or Level 1 Visual Art

Design and Visual communication is a subject where students solve design problems through briefs based on real life scenarios. These are based on real life scenarios which develop independent work ethics and promote individual thinking, learning and achievement.

This course will develop a solid foundational knowledge of formal drawing, informal drawing and presentation techniques so that students can apply this to the areas of spatial design and product design.

Design and Visual Communication is part of technology learning that has a pathway through to tertiary institutions. The ability to communicate ideas in a visual manner is essential for effective communication in a high-tech society. It involves developing knowledge, skills and the ability to think and work independently.

The Level 2 course involves Achievement Standards assessed externally and internally. The design brief approach of using lifelike scenarios, briefs and attributes is applied throughout the course with deeper emphasis on design problem solving techniques, articulation of ideas and the use of more complex formal and informal drawing systems and techniques.

Course Outline

Standard	Title	Credits	Assessment
91337	Use visual communication techniques to generate design ideas	3	External
91338	Produce working drawings to communicate technical details of a design	4	External
91339	Produce instrumental perspective projection drawings to communicate design ideas	3	External
91340	Use the characteristics of a design movement or era to inform own design ideas	3	Internal
91341	Develop a spatial design through graphics practice	6	Internal
91342	Develop a product design through graphics practice	6	Internal
91343	Use visual communication techniques to compose a presentation of a design	4	Internal

For further information see - Mrs Morwenna Pannett

DESIGN TECHNOLOGY

Level: Year 12

Qualification: NCEA Level 2
up to 24 credits

Prerequisite: The students will need to have 12 credits at NCEA Level 1 or 2 Technology.

The Year 12 Design Technology course is based on BCATS resources. BCATS stands for Building, Construction and Allied Trades which means a very practical course, involving a lot of outdoor construction activities. Students need to gain 41 credits from a list of prescribed Unit Standards to achieve their 'B Constructive Certificate'.

Course Outcomes

In the past we have completed tasks such building a deck, pergola, fences and several concrete paths. The tasks we complete are very much student-directed and are chosen based on the interests of the students and the availability of projects.

As an example, from a previous year, the Year 12 and 13 students have completed the standards below:

Course Outline

Standard	Title	Credits	Assessment
12936	Construct a non-consent timber-framed utility building as a BCATS project	8	Internal
12933	Complete minor concrete works as a BCATS project	4	Internal
12927	Identify, select, use and maintain hand tools used for construction projects under supervision	6	Internal
24350	Identify, select, use and maintain portable power tools under supervision	6	Internal

For more information see – Mr Mike Dixon

DIGITAL TECHNOLOGIES

Level: Year 12

Qualification: NCEA Level 2
up to 22 credits

Students develop knowledge and skills in using digital technologies to design and develop digital outcomes such as websites and computer programs.

Course Outcomes

- Demonstrate the ability to apply advanced techniques to develop a digital media outcome
- Apply conventions from a specified digital technology area to develop a design for a digital technology outcome
- Demonstrate accuracy and independence in the application of techniques, design elements, and testing procedures
- Demonstrate their ability to use advanced programming techniques to develop algorithms for a computer program

Course Outline

Standard	Title	Credits	Assessment
91890	Conduct an inquiry to propose a digital technologies outcome	6	Internal
91891	Apply conventions to develop a design for a digital technologies outcome	3	Internal
91893	Use advanced techniques to develop a digital media outcome	4	Internal
91896	Use advanced programming techniques to develop a computer program	6	Internal
91899	Present a summary of developing a digital outcome	3	External

For further information see – Mr Adam Shaw

ENGLISH

Level: Year 11

Qualification: NCEA Level 1
up to 20 credits

At Level One, English is the study of language and literature in a variety of forms.

By understanding how language works, students are equipped to make appropriate language choices and apply them in a range of contexts.

The study of Aotearoa New Zealand and world literature contributes to students developing their sense of identity, awareness of Aotearoa New Zealand's bicultural heritage and their understanding of the world around them.

They will show awareness of the power language has to enrich and shape their own and others' lives and they will learn how to communicate effectively.

Course Outline

Standard	Title	Credits	Literacy	Assessment
91924	Demonstrate understanding of how context shapes verbal language use	5	Y	Internal
91925	Create a verbal and visual personal response to an independently studied text	5	Y	Internal
91926	Develop ideas in writing	5	Y	External
91927	Demonstrate understanding of significant aspects of texts	5	Y	External

For further information see – Mrs Wendy Coghlan

HOSPITALITY

Level: Year 12

Qualifications: NCEA Level 2
up to 18 credits

Prerequisite: Prior study at Year 11 is desirable.

Students are able to focus on a practical course which will involve selected unit standards, which are credited to both NZQA and the industry. Students will gain the basic skills and knowledge needed in the hospitality industry.

A strong focus will be Food Safety and Hygiene and effective management of both time and workspace. This would be a useful course to anyone considering a career in any sector of the Hospitality industry or who has a passion for food.

Course Outline

Standard	Title	Credits	Assessment
167	Practice food safety methods in the food industry	4	Internal
13276	Cook food by grilling in a commercial kitchen	2	Internal
13283	Prepare & present salads for service in a commercial kitchen	2	Internal
13285	Handle and maintain knives in a commercial kitchen	2	Internal
13271	Cook food by frying in a commercial kitchen	2	Internal
13278	Cook food by roasting in a commercial kitchen	2	Internal
13280	Prepare fruit and vegetables in a commercial kitchen	2	Internal
13281	Prepare & present sandwiches in a commercial kitchen	2	Internal

For further information see – Mrs Nicola Watson

HUMANITIES

Level: Year 12

Qualification: NCEA Level 2
up to 23 credits

Prerequisite: 7 credits in Year 11 Humanities or proficiency shown at Level 1 NCEA.

This course is an extension of the Year 11 Humanities course. It provides students with the opportunity to study both History - 'the interaction of humans with other humans over time and the resulting implications for today and the future'; and Geography - 'the interaction of humans with the land on which they live and the future implications resulting from these'.

Course Outcomes

Humanities is a subject with many generic skills which cross over both 'the Sciences' and 'the Arts'. Employers today look for people who have good organisation and communication skills, and who understand what is happening in the world around them and the implications of these for society today and in the future.

Course Outline

Standard	Title	Credits	Assessment
Geography			
91244 * <i>rn</i>	Conduct Geographic Research with Guidance.	5	Internal
91245 * <i>r</i>	Explain aspects of a contemporary New Zealand geographic issue.	3	Internal
91246 * <i>r</i>	Explain aspects of a geographic topic at a global scale.	3	Internal
91243 * <i>r</i>	Apply geographic concepts and skills to demonstrate understanding of a given environment.	4	External
History			
91229 * <i>r</i>	Carry out an inquiry of an historical event or place that is of significance to New Zealanders.	4	Internal
91230 * <i>r</i>	Examine an historical event or place that is significant to New Zealanders.	5	Internal
91232 * <i>r</i>	Interpret different perspectives of people in an historical event that is of significance to New Zealanders.	5	Internal
91233 * <i>rw</i>	Examine causes and consequences of a significant historical event.	5	External
91234 * <i>rw</i>	Examine how a significant historical event affected New Zealand society.	5	External

* Denotes UE literacy credits *r*- reading *w*- writing *n*- numeracy

Note:

- For Internals, students can choose a total of 4 standards (mix of History and Geography) from the above internal list.
- For Externals, the student can do either one Geography and one History or they can do both History Standards.

For further information see - Mr. Dinesh Naidu

MATHEMATICS

Level: Year 12

Qualification: NCEA Level 2
up to 22 credits

Prerequisites: 10 Credits in NCEA Level 1 Mathematics

Course Outcomes

This course prepares students for either Calculus or Statistics (or both) in Year 13.

Course Outline

A selection from the following standards will be offered.

Standard	Title	Credits	Assessment
91256	Apply coordinate geometry methods in solving problems	2	Internal
91259	Apply trigonometric relationships in solving problems	3	Internal
91260	Apply networks in solving problems	2	Internal
91262	Apply calculus methods in solving problems (optional - recommended if taking Calculus in Year 13)	5	External
91264*	Use statistical methods to make an inference	4	Internal
91267	Apply probability methods in solving problems	4	External
91269	Apply systems of equations in solving problems	2	Internal

Assessment Procedures

A detailed assessment guide is issued to students in February. Standards marked by an asterisk (*) are open-book assessments. It is essential that students have a graphical calculator.

For further information see – Ms Jill Bell

PHYSICAL EDUCATION

Level: Year 12

Qualification: NCEA Level 1
up to 20 credits

Prerequisites: None

Participation in a variety of activities will occur throughout the duration of the course. There will be an emphasis throughout on individual achievement and the role of physical activity in society. Students must be prepared to swim throughout Term 1 to improve personal swimming performance.

Students will examine

- Aspects of structure and functions of the human body in relation to the effects of activity and the role of activity in healthy living
- Biomechanical factors involved in human movement and principles underlying skill acquisition
- A social perspective on physical education and sport
- Applied aspects of exercise and activity (physiology)
- Factors that influence individual and group participation in physical activity (including leadership)

Participation in activities is mandatory - this course involves a great deal of physical activity - students are expected to be fully involved AND changed for each class.

Details about the content of each topic will be given to students at the start of the topic.

Course Outline

Standard	Title	Credits	Assessment
91329	Demonstrate understanding of the application of biophysical principles to training for physical activity.	4	Internal
91330	Perform a physical activity in an applied setting.	4	Internal
91334	Consistently demonstrate social responsibility through applying a social responsibility model in physical activity.	3	Internal
91328	Demonstrate understanding of how and why biophysical principles relate to the learning of physical skills	5	Internal
91331	Examine the significance for self, others and society of a sporting event, a physical activity, or a festival	4	Internal

For further information see – Mr Dale Kington

PHYSICS

Level: Year 12

Qualification: NCEA Level 2
up to 23 credits

Prerequisite: Reasonable credit attainment in Level 1 Science and Mathematics.

Course Outcomes

Although Physics is important as a subject and career in its own right, most of those who are studying Physics are interested in it because it is necessary for medical, engineering or technical careers. Physics is a prerequisite for some tertiary courses. The course standards will be selected from the standards below and will be based on student interest and future pathways.

Course Outline

Standard	Title	Credits	Assessment
91168	Carry out a practical physics investigation that leads to a non-linear mathematical relationship	4	Internal
91169	Demonstrate understanding of physics relevant to a selected context	3	Internal
91171	Demonstrate understanding of mechanics	6	External
91172	Demonstrate understanding of atomic and nuclear physics	3	Internal
91170	Demonstrate understanding of waves	4	External

For further information see – Miss Llara MacGilloway

TOURISM

Level: Year 12

Qualification: NCEA Level 2
up to 25 credits

Tourism is witnessing huge global growth every year and it is forecast to grow far into the future. Growth means that more and more skilled workers are needed all over the world. By studying Tourism, you give yourself the skills and knowledge to be a part of this growth.

We work closely with Service IQ (Aviation, Tourism and Training Organisation) and the New Zealand School of Tourism.

We aim to complete a couple of trips to tourist destinations throughout the year.

Course Outcomes

This course provides an introduction to the importance of Tourism to the economy. Students learn about what Tourism is and why it is such an important business. Students develop practical work-related skills and learn about tourist destinations here in New Zealand and overseas.

Course Outline

Standard	Title	Level	Credit	Assessment
18237	Perform calculations for a tourism workplace	2	3	Internal
24724	Demonstrate knowledge of the history of tourism	2	4	Internal
24731	Demonstrate knowledge of destination New Zealand	2	4	Internal
24727	Describe and compare impacts of Tourism on the Physical Environment	2	3	Internal
24728	Demonstrate knowledge of Work Roles in Tourism	2	3	Internal
24729	Demonstrate knowledge of World Tourist Destinations	2	4	Internal
24730	Demonstrate Knowledge of the Business of Tourism	2	4	Internal

For further information see – Mrs Jeanna Rodgers

VISUAL ART

Level: Year 12
up to 20 credits

Qualifications: NCEA Level 2

Prerequisite: A successful year in Year 11 Visual Art unless otherwise specified on an individual basis at the discretion of the HOD of Visual Art.

This course is divided into three assignments. Students can select to investigate one of the following artistic fields: painting, printmaking, photography or design.

Students will learn to:

- Research and analyse influences relevant to their own artwork and those of recognised established artists.
- Apply understanding from research and extend skills in a range of materials, techniques and technologies.
- Generate, analyse, clarify and extend ideas in a selected field related to established practice. Use a systematic approach toward the development of ideas in a body of work.
- Use analysis to interpret and respond to artworks.

Student Outcome

Students will use their research, critiquing and practical skills to create a body of art work centred around a chosen concept or idea. Students will be able to use a percentage of their earlier internal assessments toward their external portfolio assessment, reducing the overall workload required for the portfolio. Year 12 Visual Art encourages students to have a strong work ethic, resilience, and to be creative.

Course Outline

Standard	Title	Credits	Assessment
91310 (design) 91311 (painting) 91312 (photography) 91313 (printmaking)	Use drawing methods to apply knowledge of conventions appropriate to design/painting/photography/printmaking	4	Internal
91315 (design) 91316 (painting) 91317 (photography) 91318 (printmaking)	Develop ideas in a related series of drawings appropriate to established design/painting/photography/printmaking practice	4	Internal
91320 (design) 91321 (painting) 91322 (photography) 91323 (printmaking)	Produce a systematic body of work that shows understanding of art making conventions and ideas within design/painting/photography/printmaking	12	External

For further information see - Mrs Morwenna Pannett