



SENIOR SUBJECT INFORMATION FOR 2024

Remember:

- At **Year 11**: English, Maths, and Science are compulsory NCEA subjects. You need to choose a further three NCEA subjects.
From 2024, to gain NCEA at Level 1 you require 60 credits at Level 1 or above. You also need the new Literacy and Numeracy corequisite standards.
- At **Year 12**: English is a compulsory NCEA subject, and you choose a further five NCEA subjects.
For NCEA Level 2, 60 credits at Level 2 or above are needed, in addition to 20 L1 credits carried over from the Level 1 certificate..
- At **Year 13**: you choose five NCEA subjects.
To gain NCEA Level 3, 60 L3 credits are needed, in addition to 20 L2 credits carried over from the Level 2 certificate.
Entrance to a New Zealand University requires students to gain NCEA Level 3, UE literacy, and 14 credits in each of three approved subjects. All of our Year 13 courses are approved subjects.

Who to see if you have questions

If you have any further questions about your subject selection for next year, after reading through this guide, speak to the appropriate teachers for more advice and information:

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|---------------------------------------|--------------------------------|
| ● NCEA / Deputy Principal (Academics) | Mrs Mitchell |
| ● Deputy Principal (Pastoral) | Ms Sauvao |
| ● Pastoral Dean | Mr Atkinson |
| ● Subject Area Team Leads | Mr Holt/Mrs McLeod/Mr Winfield |
| ● Individual subject teachers | |
| ● Your Tutor Teacher | |

Please note: subject selections are not guaranteed - they are dependent on timetable clashes and class numbers, as well as prerequisites at teacher discretion.

ENGLISH

YEAR 11: NCEA Level 1 - compulsory

In English we aim to inspire a lifetime love of literature and language. Because success in English is fundamental to success across the curriculum, we emphasise the pleasure that comes through an understanding and growing appreciation of the English language and its literature. We also focus specifically on developing writing skills to an advanced level. A balance of internal and external assessments is chosen to cover the strands of the curriculum: making meaning and creating meaning. Students develop creative and formal writing skills and show understanding of a variety of engaging written, visual and oral texts.

YEAR 12: NCEA Level 2 - compulsory

In English we inspire a lifetime love of literature and language. English highlights the enjoyment that comes through an in-depth understanding and appreciation of the English language and its literature. We continue to focus on developing a wide range of writing skills to an advanced level. The Level 2 English programme, through NCEA assessment, is rich and varied. A balance of internal and external assessments is chosen to cover the main strands of the curriculum: making meaning and creating meaning. Students develop a portfolio of writing and analyse a range of engaging written, visual and oral texts. They develop effective verbal communication skills through producing a crafted and controlled oral text.

YEAR 13: NCEA Level 3 - optional

Prerequisite: Students are expected to achieve a minimum of 14 credits at Level 2 to proceed to Level 3 English.

The Level 3 English programme, through a balance of internal and external NCEA assessment, places emphasis on the skills of critical response and literary appreciation in order to cement an independent life-long love of learning. In order to address the main strands of the curriculum, making meaning and creating meaning, students engage in an in-depth study of different genres and texts, delivery of a seminar, and extended writing.

Support is available for students who wish to sit Scholarship English.

MATHEMATICS

YEAR 11: NCEA Level 1 - compulsory

All students take a general Mathematics course covering the three strands determined by the New Zealand Curriculum: number & algebra, measurement & geometry, and probability & statistics. The emphasis is two-fold: the acquisition of concepts and skills and the application of these to practical problems. Practical work, investigations and problem-solving are included.

Mathematics teaches students to think creatively, critically, strategically, and logically. They learn to structure and to organise, to carry out procedures flexibly and accurately, to process and communicate information, to persevere in order to reach a goal and to enjoy intellectual challenge.

Year 12: NCEA Level 2 Mathematics - optional

Students studying Level 2 Mathematics will be placed into one of two alternative courses, depending on the student's aptitude at algebra. One course builds upon algebra and trigonometry and introduces Calculus, which is required for Level 3 Calculus. The other course has an Applied Mathematics focus looking at topics such as networks, and sequences and series. Both courses offer Statistics standards as a foundation for Level 3 Statistics and Modelling.

Year 13: NCEA Level 3 - optional

At Level 3, Mathematics divides into two subjects: Calculus, and Statistics and Modelling.

Calculus

This course consists of internally and externally assessed Achievement Standards. Strong algebra skills are required to complete each standard. The standards cover differentiation, integration, trigonometry, complex numbers, conics, and simultaneous equations. This course is designed to equip students with the mathematical skills required for engineering, accounting, mathematics, physics, chemistry, or medicine at university.

Prerequisite: Students are expected to achieve a minimum of 14 Mathematics credits at Level 2 to proceed to Level 3 Calculus, including Merit in the Algebra external assessment.

Support is available for students who wish to sit Scholarship Calculus.

Statistics and Modelling

A mixture of internally and externally assessed Achievement Standards are offered in this course. The standards may cover bivariate data analysis, inference, evaluating stats reports, probability concepts, and probability distributions. Statistical skills are useful for a wide range of applications, across sciences and social studies, and is a highly useful skill across most disciplines at university. This subject is particularly suited to students taking Social Sciences and Medicine.

Prerequisite: Students are expected to achieve a minimum of 14 Mathematics credits at Level 2 to proceed to Level 3 Statistics, including the Probability external assessment.

Support is available for students who wish to sit Scholarship Statistics.

SCIENCE

YEAR 11: NCEA Level 1 - compulsory

A scientific perspective is essential when exploring many of the major challenges and opportunities that confront our world. The Science course is divided into modules of Biology, Chemistry, and Physics. The course assesses students on Level 1 NCEA Science achievement standards and includes a mixture of internal and external assessments.

In Year 12, Science splits into three separate courses: Biology, Chemistry and Physics.

Students need a minimum of 10 credits in Level 1 to progress to Level 2, and need to have achieved at least one of the standards relevant to the science subject they plan to continue studying.

Biology

Biology is a subject of wide general interest where students learn about the way living things interact with each other and the environment. It is particularly relevant to current issues regarding sustainability, the ecosystem, and biotechnology. Biology is a prerequisite for a range of vocations e.g. health sciences, plant and animal sciences, and food sciences.

Year 12: NCEA Level 2 - optional

As well as a minimum of 10 Level 1 Science credits, achievement in the Genetics standard in the Level 1 NCEA Science course is a prerequisite for Level 2.

The content of this course includes ecology, gene expression, and genetics. Fieldwork and laboratory work are important components of the course. The course assesses students on Level 2 NCEA Biology standards and includes a mixture of internal and external assessments.

Year 13: NCEA Level 3 - optional

At least 12 credits in Level 2 Biology is strongly recommended as a prerequisite for Level 3, although individual cases may be discussed.

During this course students study animal behaviour, plant responses, homeostasis, human manipulation of genetic transfer, and trends in human evolution. The course includes a mixture of internally and externally assessed standards, with a research component.

Support is available for students who wish to sit Scholarship Biology.

Chemistry

Chemistry leads to a diverse range of career opportunities. Achievement in Level 3 Chemistry is mandatory for some careers, and is also a useful background to other physical, biological, and applied science careers.

Year 12: NCEA Level 2 - optional

Competence in Mathematics, and achievement at Merit level for the Chemistry standard covered in the Level 1 NCEA Science course are strongly recommended as prerequisites.

The course provides a foundation for any further studies in Chemistry. The major topics in the course are atomic structure, bonding, stoichiometry, organic chemistry, qualitative analysis, redox reactions, and aspects of chemical reactivity. The course assesses students on NCEA Level 2 Chemistry standards and includes both internal and external assessments.

Year 13: NCEA Level 3 - optional

Level 2 Chemistry is an essential prerequisite for Level 3 study, with a minimum of 12 credits achieved at Level 2 Chemistry.

Concepts discussed at Level 2 are developed to a more sophisticated level, with increasing emphasis on quantitative aspects; use of mathematical techniques, such as simple algebra, and logarithmic functions. The major topics in the course are electrochemistry, spectroscopy, atomic structure, bonding, thermodynamics, and organic chemistry. The course assesses students on Level 3 NCEA Chemistry standards and includes both internal and external assessments.

Support is available for students who wish to sit Scholarship Chemistry.

Physics

Physics is a fundamental science concerned with the nature of the physical universe and includes the concepts of gravity, motion, electromagnetism, radiation, and the structure of the atom.

Physics is a recommended subject for a number of careers, e.g. architecture, aviation, engineering, industrial design, surveying, medicine, optometry, physiotherapy, radiography, physical education, pharmacy, and veterinary science. Students who are anticipating tertiary study in these disciplines will benefit from a thorough grounding in the essential aspects of Physics taught at Levels 2 and/or 3.

Year 12: NCEA Level 2 - optional

Competence in mathematics, as well as achievement with Merit in the Physics standards covered in the Level 1 NCEA Science course and in the Algebra standard from L1 Mathematics are strongly recommended as prerequisites.

Level 2 Physics introduces the fundamental concepts and formulae relating to electricity, electromagnetism, mechanics, energy, waves, optics, atomic and nuclear physics. There is substantial mathematical content and students without reasonable competence in Mathematics are discouraged from enrolling. The course assesses students on Level 2 NCEA Physics standards and includes both internal and external assessments.

Year 13: NCEA Level 3 - optional

Level 2 Physics is an essential prerequisite for Level 3 study, with a minimum of 12 credits achieved (preferably with Merit) at Level 2 Physics.

Concepts introduced in Level 2 Physics are developed at a more sophisticated level at Level 3. Students must be competent with all the skills acquired at Level 2, and should also be undertaking Level 3 Mathematics with Calculus. Explanatory writing and problem solving are essential skills for success in Level 3 Physics. The course includes a mixture of internally and externally assessed standards.

Support is available for highly motivated and able students who wish to pursue Scholarship Physics.

VISUAL ARTS

The Visual Arts curriculum underpins the development of visual literacy at Whitby Collegiate. Students are engaged in extending their understanding of the Visual Arts, while encouraged in creative thinking when completing projects in a theme of their own choice. The assessments for all Levels of Visual Arts are a portfolio of artwork, a series of related art works, and brief explanatory notes of research and theme development. There are no external examinations.

Year 11: NCEA Level 1 - optional

Students undertake both internal and external achievement standards. Students investigate technique and skills in multiple fields of practice which could include painting, printmaking, photography and sculpture. Different skills and techniques used by significant artists are explored. They will develop their own theme using a range of subject matter and media for their portfolio. Students will acquire increasing control in using art forms as medium of expression and communication.

Year 12 and 13: NCEA Levels 2 and 3 - optional

Level 2 Art subjects may be taken as a new subject in Year 12, but it is an advantage to have studied Art in Year 11.

Level 3 Art subjects should only be selected if a student has completed one of the Level 2 Art subjects.

The Level 2 and Level 3 Visual Art courses may include Achievement Standards from Design, Painting or Photography as suited to the individual student. Students will be assisted in designing their own course, and may decide to select more than one Visual Arts specialty. All courses will be made up of internal and external achievement standards. Students will explore and develop their own theme and develop that theme using a range of subject matter for their portfolio. The techniques of various significant artists are used to emphasise the theme, and those techniques and artists change regularly. Students will gain visual awareness of colour, texture, tone, form, and shape through this course, as well as an aesthetic sense.

Depending on the speciality, required equipment may include a DSLR camera or high spec cell phone, download cable, and a laptop capable of running Adobe Photoshop.

Exceptional portfolios may be entered for Scholarship.

HUMANITIES

The Humanities Department encompasses three subject areas at senior level: Commerce, Geography, and History. Students are encouraged to think logically, critically, and creatively in order to discover and implement strategies for positive change and sustainability. Humanities teachers aim to promote their subjects as diverse, useful, and interesting, and to teach students to read widely, research effectively, and write competently. We aim to create an environment in which all students are able to reach their full potential and are encouraged to acquire the foundations for further study at a tertiary level.

Commerce

Year 11: NCEA Level 1 - optional

From 2024, Economics will be named Commerce. Students are introduced to various elements of the commercial environment including how the forces of demand and supply determine consumer and producer decisions in a market. Scarcity of resources is an important theme in economics and students will study how people as individuals and groups choose to satisfy their needs and wants by allocating and managing resources when making financial decisions, and also examine how different groups in the economy operate interdependently. Plus, students will build on their Marketing skills learned in Year 10 by pitching an innovative business idea to a panel of judges.

Year 12: NCEA Level 2 - optional

From 2024, Economics will be named Commerce. Level 2 Commerce can be taken as a new subject in Year 12.

Students will complete Macroeconomics achievement standards. This will enable students to recognise the interdependent nature of the economy, and analyse and provide solutions to economic issues and problems. This course is designed to allow students to explore issues resulting from market forces within the context of the New Zealand economy. The economic issues covered are trade, inflation, and unemployment. Students will also develop an awareness of policies that a government may implement to address economic issues.

Year 13: NCEA Level 3 - optional

From 2024, Economics will be named Commerce. Level 3 Commerce can be taken as a new subject in Year 13 at teacher discretion.

Students do a mixture of internally and externally assessed achievement standards. They learn how to create, manage and run their own business through the Young Enterprise Scheme (YES). This programme gives students invaluable knowledge of how businesses work, understanding of the importance of working as a team, provides essential life skills and develops a better understanding of their own capabilities. The knowledge and skills that they gather will transfer to all aspects of their future careers and university life.

Support is given to those Commerce students who wish to sit the Economics Scholarship.

Geography

Viewing the world geographically is an important skill. The ability to make connections between people and the environment is becoming increasingly important as the world grapples with rising numbers of global issues.

Year 11: NCEA Level 1 - optional

Students are offered a balance of internal and external assessments. Through geographical themes such as sustainability, extreme natural events and global issues, students learn how people's diverse values and perspectives influence the environmental, social, and economic decisions they make. Research and geographic skills such as mapping, and graphing are woven into each unit.

Year 12: NCEA Level 2 - optional

Level 2 Geography can be taken as a new subject in Year 12.

This course offers a mixture of internally and externally assessed Achievement Standards. Human, physical, and social Geography topics are explored, with skills such as interpretation of graphs and infographics used throughout.

Studies include the formation of volcanic landforms and interacting processes with a particular focus on the Tongariro Volcanic Centre (TVC). This includes a 3 day field trip to the volcanic region to support collection of data for Research and furthering understanding for the external examination. Other topics studies include the pattern of Hip Hop Artists globally and how this has come to be due to major social and economic issues, and child poverty in New Zealand.

Year 13: NCEA Level 3 - optional

Level 3 Geography may be taken as a new subject in Year 13.

The course consists of a mixture of internally and externally assessed Achievement Standards. The major unit is on Tourism Processes, with a particular focus on Queenstown. This includes a 3 day field trip to the Queenstown Lakes District Region to support collection of data for Research and furthering understanding for the external examination. Geographic skills are incorporated into lessons and assignments. There are short studies of global and contemporary issues which look at the temporal pattern of the Coronavirus Pandemic and Human trafficking respectively.

Support is given to those Geography students who wish to sit Scholarship.

History

History is the study of the past and an understanding of the past is fundamental to an understanding of the present. The purpose of historical inquiry is not simply to present facts but to search for an interpretation of the past. Historians attempt to find patterns and establish meaning through the study of documents and artefacts left by people from other times and places. The research, thinking and communication skills developed in History are important for life and applicable in a variety of careers.

Year 11: NCEA Level 1 - optional

Level 1 History provides an excellent background to the understanding of some of the issues of the modern world. There is a balance of internally and externally assessed achievement standards. Areas covered will include the significance of the World Wars to us, as well as other possible case studies about social justice including the Black Panthers and the Polynesian Panthers.

Year 12: NCEA Level 2 - optional

Level 2 History may be taken as a new subject at Year 12.

This subject provides a good background for understanding some of the key historical forces in the modern world such as communism, revolutions, nationalism, and capitalism. Topics such as the Holocaust, the Cold War, and the Vietnam War may be covered. Students can also select their own research topics. There is a balance of internally and externally assessed Achievement Standards.

Year 13: NCEA Level 3 - optional

Level 3 History may be taken as a new subject at Year 13, but it is an advantage to have studied it at Level 1 or 2.

The course continues to develop research and communication skills, with a focus on an historical event of choice. Various events or periods of time of significance to New Zealanders will be studied, with a focus on interpretation of evidence and perspectives. Both internal and external achievement standards make up the assessment programme. Level 3 History is designed to provide a transition from school to university study, equipping students with invaluable inquiry and communication skills.

Support is given to those History students who wish to sit Scholarship.

MUSIC

Senior Music students continue to explore a range of musical styles, and further develop their performance, composition, music literacy, and aural skills, with the aim of flourishing as well-rounded musicians.

Year 11: NCEA Level 1 - optional

Corequisite: Providing they have taken instrumental or voice lessons for at least two years, students may choose to take NCEA Level 1 Music in Year 11. Students are required to have instrumental/voice lessons if they are completing the Performance standards.

It is expected that students will continue with their vocal or instrumental tuition alongside their academic coursework in Music. Senior music students are also expected to participate in at least one of the school's extra-curricular music groups, such as choir, orchestra, jazz band, barbershop group, guitar ensemble, and/or rock band. Level 1 Music consists of a range of achievement standards, and students choose the ones that best suit their strengths. The internally assessed standards involve performance skills and using music in a music style. Students will present two pieces of work for each of these internal standards. The externally assessed standards involve composition, and analysis and understanding of music in relation to context.

Year 12: NCEA Level 2 - optional

Corequisite: It is expected that students will continue with their vocal or instrumental tuition alongside their academic coursework in Music.

Level 2 Music consists of internally and externally assessed achievement standards, from which students may select to suit their strengths. The internally assessed standards involve solo and group performances, composition, instrumentation, and a New Zealand Music research assignment. The externally assessed standards may involve theoretical skills. Senior Music students are also expected to participate in at least one of the school's extra-curricular music groups, such as choir, orchestra, jazz band, barbershop group, guitar ensemble, and/or rock band.

Year 13: NCEA Level 3 - optional

Corequisite: It is expected that students will continue with their vocal or instrumental tuition alongside their academic coursework in Music.

It is expected that students will continue with their vocal or instrumental tuition alongside their academic coursework in Music, and participate in the school's extra-curricular music programme. NCEA Level 3 Music is, in fact, two different courses (Making Music and Music Studies) from which students may select to suit their strengths. The internally assessed standards include solo and group performances, composition, arrangement, research of an individually chosen music topic, and analysis of a music work. The externally assessed standards include theoretical skills and score analysis. The standards chosen by students will depend on their musical background and other commitments.

Music Scholarship involves both a written examination and the submission of a study of their choice - solo performance, composition, or music analysis.

PHYSICAL EDUCATION

Physical Education invites ākonga to engage with how movement affects them, those around them, and their wider communities. Ākonga recognise and understand the challenges which affect participation in movement, and respond to any movement barriers with full and active participation. Through their learning journey in Physical Education, ākonga will develop and refine their understanding of what it means to be physically educated and promote physical education throughout their lives.

Year 11: NCEA Level 1 - optional

The focus for Level 1 Physical Education is providing learning opportunities for students to gain understanding of quality movement in physical activity through a mixture of internally assessed and externally assessed Achievement Standards. Students will complete internally and externally assessed Achievement Standards.

Students will develop skills including self management and risk management analysis, application of sound basic scientific knowledge to improve the quality of performance. Students will demonstrate their understanding in physical activities, written work, and research. This subject includes a four-day outdoor education trip to TOPEC.

Year 12: NCEA Level 2 - optional

To take Level 2 Physical Education, it is not necessary to have completed Level 1 Physical Education, although it is highly recommended.

The focus for Level 2 Physical Education is on the application of knowledge to physical activity. The course covers safety in the outdoors, a critical examination of a sporting event, principles and methods of training, coaching and leadership, as well as personal performance in nationally developed standards. There is a strong emphasis on critical thinking and action.

Students will have the opportunity to demonstrate their knowledge and understanding in both written and practical contexts. Practical contexts include a four-day outdoor education trip to TOPEC, the Tough Guy and Gal Challenge, Ki-o-Rahi, and coaching a group of students from a local primary school. All components of this course are internally assessed, incorporating physical activities, written work, and research.

Year 13: NCEA Level 3 - optional

To take Level 3 Physical Education, it is not necessary to have completed the Level 2 Physical Education, although it is highly recommended.

The focus for Level 3 Physical Education is on the comprehensive application of knowledge to physical activity. The course also develops the understanding and skills which underpin successful physical activity and encourages continuous and lifelong participation.

Students will have the opportunity to demonstrate their knowledge and understanding in both written, practical, and research contexts. Skills developed include research and critical thinking, self-management, analysis of data and movement, application of scientific principles, risk management in the outdoors, application of health promotion to improve the well being of others, and leadership skills in the organisation and running of a school event. All components of this course are internally assessed, and the achievement standards incorporate physical activities, written work, and research. This subject includes a four-day outdoor education trip to TOPEC. Scholarship is also offered to Physical Education students in Year 13.

SPANISH

Learning Languages is one of the key learning areas identified in the New Zealand Curriculum. Learning a new language provides a means of communicating with people from other cultures and enables people to analyse and understand their own culture and language. Creative, insightful, and long-term thinking can only really happen with some knowledge of other languages.

Increasingly, it is important for young people to be immersed in other languages as they link with others in a local and global context. Our students will be competing for jobs against bilingual and trilingual individuals.

There is a trip to Spain organised for April 2024.

Year 11: NCEA Level 1 - optional

Students consolidate and expand on material covered at junior level in preparation for NCEA Level 1. There is an emphasis on spoken Spanish as well as developing the ability to decipher a variety of text types. The course comprises both internal (speaking and writing) and external (listening and reading) Achievement Standards. Students will increase their knowledge of the Spanish language and culture. A variety of topics and materials are used to develop students' communicative skills. Students participate in the assembling of language portfolios submitted during the year. The portfolios are an important focus for language learning through to Level 3. Students have the opportunity to reinforce vocabulary acquisition using Education Perfect, which is an effective online learning resource.

Year 12: NCEA Level 2 - optional

Solid achievement in both external and internal standards at Level 1 is recommended as a prerequisite for Level 2 Spanish.

This course aims to deepen students' awareness of the Spanish culture and language, and is theme-based. There is an emphasis on extending students' ability to communicate in both written and spoken Spanish. Their repertoire of vocabulary, idiomatic expression and grammar is extended. A variety of topics and materials are used to develop students' communicative skills. Students participate in the assembling of language portfolios where spoken interactions and written contributions are submitted during the year. Level 2 Spanish comprises internally (speaking and writing) and externally (listening and reading) assessed Achievement Standards. These standards develop the linguistic skills acquired at Level 1 and allow students to express themselves with increased spontaneity. Students are encouraged to reinforce their vocabulary acquisition through Education Perfect, an effective online learning resource.

Year 13: NCEA Level 3 - optional

Solid achievement in both external and internal standards Level 2 is recommended as a prerequisite for Level 3 Spanish.

Level 3 NCEA Spanish comprises internally (speaking and writing) and externally (listening and reading) assessed Achievement Standards. These standards are based on the linguistic skills developed at Level 2 to extend the students in the preparation for tertiary study. The Spanish course is theme-based, including topics such as Politics, Religion, Environmental Issues and Social Issues. Students are encouraged to develop a critical approach to current affairs and other cultural aspects of the course. Vocabulary, grammar structures, and idiomatic expressions are consolidated at Level 3 to ensure that students are able to use the language with more flexibility. Students have the opportunity to reinforce vocabulary acquisition through Education Perfect, which is an effective online learning resource.

Scholarship is also offered to Spanish students in Year 13.

DIGITAL TECHNOLOGIES

Year 11: NCEA Level 1 - optional

There is no prerequisite for entry into this subject.

Use the tools and techniques needed for life in the Digital Age. This introductory course in Digital Technology looks at design, programming, human interaction with technology, and computer science. An emphasis is placed on the design process, in which students look at planning, preparation, research, creation, and evaluation of their digital products. Level 1 NCEA Digital Tech is mainly project-based with most topics internally assessed.

Year 12: NCEA Level 2 - optional

A minimum of 14 Level 1 credits in Digital Technology is expected as entry to this subject, however individual cases can be discussed.

Building upon the tools and techniques needed for life in the Digital Age, this course lays a foundation for possible careers in the computer and design industries. The course focuses on advanced game, web or print media production, programming, design thinking, and computer science. Students engage in planning, preparation, research, creation, and evaluation of their digital products. Level 2 NCEA Digital Tech is mainly project-based with most topics internally assessed.

Year 13: NCEA Level 3 - optional

A minimum of 14 Level 2 credits in Digital Technology is expected as entry to this subject, however individual cases can be discussed.

Level 3 Digital Technology features advanced use of the tools and techniques needed for life in the Digital Age. While the general course focuses on complex web or print media production, advanced programming, design thinking, and analysis of a computer science area, there is also scope for individualised projects and programmes. This NCEA subject is mainly project-based with most topics internally assessed. Common career paths for students of Digital Technology include: Programmer, Electronics Engineer, Web Developer, Telecommunications Technician, Game Developer, Database/Systems Administrator, Computer Technician or Graphic Designer.

DESIGN AND VISUAL COMMUNICATION

In Design and Visual Communication (DVC) students learn about design, develop their practice of designing, and develop their design thinking in the context of spatial and product design. Design, designing and design thinking is explored and expressed through visual communication and is informed by design heritage.

There are no examinations at any level of DVC, and Achievement Standards are a combination of internally and externally assessed folios of work.

Year 11: NCEA Level 1 - optional

There is no prerequisite for entry into L1 DVC.

At Level 1 students will learn about the design process and broaden their sense of what design is. In this course you will be exploring nature and objects to influence your own designs. Students will learn how to design both traditionally (hand drawn) and digitally.

Year 12: NCEA Level 2 - optional

A minimum of 14 Level 1 credits in DVC is expected as entry to this subject, however individual cases can be discussed.

At Level 2 the course introduces the technicalities of spatial design. Students will design a chair and a holiday cabin and will make a technical drawing of their cabin. They will have the opportunity to present their designs to the class. Students will compile their technical drawings into a portfolio of work for external assessment.

Year 13: NCEA Level 3 - optional

A minimum of 14 Level 2 credits in DVC is expected as entry to this subject, however individual cases can be discussed.

Level 3 deepens the students' understanding of the technicalities of spatial design. They will gain a further understanding of formal design, and design towards a client and brief, rather to their own taste. They will have the opportunity to present their designs to the class. Students will be designing a picnic bench based off of natural forms of water and aquatic plants for external assessment.

Exceptional portfolios may be entered for Scholarship.

Guideline to subject progression at Whitby Collegiate

Year 7/8	Year 9	Year 10	Year 11	Year 12	Year 13
Digital Technology	Digital Technology	Digital Technology	Digital Technology	Digital Technology	Digital Technology
Physical Education & Health	Physical Education & Health	Physical Education & Health	*SHAPE	*SHAPE	*SHAPE
			Physical Education	Physical Education	Physical Education
Religious Education	Religious Education	Religious Education	Religious Education	Religious Education	Religious Education
Science	Science	Science	Science	Biology Chemistry Physics	Biology Chemistry Physics
Maths	Maths	Maths	Maths	Maths	Statistics Calculus
Social Sciences	Social Sciences	Social Sciences	History Geography Commerce	History Geography Commerce	History Geography Commerce
Visual Arts	Visual Arts	Visual Arts	Visual Arts	Painting Photography Design	Painting Photography Design
			Design and Visual Communication	Design and Visual Communication	Design and Visual Communication
Music	Music	Music	Music	Music	Music
Spanish	Spanish	Spanish	Spanish	Spanish	Spanish
English	English	English	English	English	English

*SHAPE = Senior Health & PE - compulsory 1 period per week

SUBJECT PLANNING

PLANNING PAGE FOR YEAR 11 TO 13, AND BEYOND

Year 11 Subjects – choose 3 more

English	Science	Mathematics			
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Year 12 Subjects – choose 5 more

English					
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Year 13 Subjects – choose 5 subjects

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When I leave school:

What I might do:	Subjects needed:	Subjects recommended: