



# YEAR 13 COURSE BOOKLET

## 2024

NAME: \_\_\_\_\_

WHANAU CLASS: \_\_\_\_\_

### Student Guidance and Support

We have a number of staff who can advise students and their whanau about subject selection, education and vocational pathways. The Guidance Personnel are listed below:

Deputy Principal (careers leader)	Mr P Westwood
Assistant Principal & NZQA Principal's Nominee	Miss K Mahy
Careers Adviser and STAR Coordinator	Ms K Hayward
2024 Year 13 Dean	Mr Waldron

To contact any of the staff above, phone the school office on 838 8303

### Subject selection evening

Whānu are invited to meet with our staff to discuss career pathways and 2024 subject selections for their tamariki on **Wednesday 2<sup>nd</sup> August, 5 – 6pm.**

This booklet is designed to assist future Year 13 students, along with their whanau, to choose subjects for 2024. We encourage students to select subjects that will build a vocational pathway that best suits them and their future intentions.

### Construction and Infrastructure

If you don't have buildings, roads, drainage, a water supply, functioning electricity or a telecommunications network you can't live or run a business in today's world. In this sector you'll work indoors and outdoors. Often it'll be dusty and noisy, but you'll get to feel the sun on your skin and the wind on your face. You'll move around from site to site, working with lots of different tradespeople, contractors, and clients. You'll have a variety of different tasks to do no matter what your job is, and you'll use many different tools and types of machinery. The work is physical and active. It's hard work, but there are plenty of laughs and jokes with good mates.

### Manufacturing and Technology

From hands-on production to cutting-edge research, from massive machines and busy production lines to individual crafts or computer design. In this sector you might be working with huge lumps of metal or delicately assembling tiny component parts, so small you can't even see them (nanotechnology). You'll be working indoors most of the time, with tools, machinery, and equipment, or maybe a computer. You could be producing things in their millions, or making or designing individual one-offs.

You might be fabricating, installing, fixing, or maintaining systems, or doing a job involving lots of thinking, planning, or making calculations. Many jobs are creative, methodical, detailed, and precise. Generally, in this pathway there's a very clear end point to the job you're doing and you'll be able say "I had a hand in that. It couldn't have happened without me."

### Creative Industries

This industry is for those people who work or study in visual and performing arts as artists or technicians, or in the design and development of products, including communications. This pathway also includes those who work in film and digital technologies and in events development and management, including heritage and cultural advice. Māori and Pacific culture and identity is fully represented in this pathway.



### Social and Community Service Industries

This sector can be exciting, personally rewarding, and physically and emotionally demanding. The range of jobs is huge – from monitoring and protecting people and property (corrections, defence, or firefighting) to caring for people in need (health care, community and social work, medicine, or therapy). You may work outdoors or inside, or move from place to place. Wherever you are, you'll be dealing with people of all ages and walks of life.

There will be times where you'll find yourself in fast-changing, challenging situations where you may have to make quick decisions under pressure. Wherever you work you're likely to be part of a strong, active, and committed team.

### Primary Industries

This vocational pathway offers opportunities to work outdoors planting, growing or tending trees, crops and animals. You may work alone, sometimes in isolated places, or with a bunch of like-minded people. Further from the farm, you could be in a processing plant, turning primary produce into goods for sale and export. You may also work in a big city office, organising shipping, or developing government policy. If you're into science and technology, you're valued in this sector, whether you're analysing data or contributing to the next world-leading agricultural breakthrough.

### Service Industries

From travel to tourism, hairdressing to hospitality, physical fitness to finance services. This sector is best for people who enjoy working with other people. Good communication and presentation skills are important. You will need to be able to work in teams and deal with people from all walks of life. If you can work out how to handle tricky situations diplomatically, you'll go a long way.

Knowledge of New Zealand and local culture and heritage is a real asset. And because employers and customers are keen on people who have the X-factor, a willingness to learn and being passionate about your work is also important.

## 2024 Year 13 Subject Lines



After reading about the courses available complete the following table. You will need to choose one subject from each line.

Name: \_\_\_\_\_

Whanau Class: \_\_\_\_\_

<b>The vocational/career pathways that interest me are:</b>	<input type="checkbox"/> I would like to find out more about <b>Star Agriculture</b> <input type="checkbox"/>
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Line 1	Line 2	Line 3	Line 4	Line 5	Line 6
<input type="checkbox"/> English <input type="checkbox"/> Building and construction <input type="checkbox"/> Fashion and textiles <input type="checkbox"/> Tourism	<input type="checkbox"/> Art <input type="checkbox"/> Statistics <input type="checkbox"/> Vocational Studies	<input type="checkbox"/> Biology <input type="checkbox"/> Calculus <input type="checkbox"/> Te Reo Maori <input type="checkbox"/> Vocational Studies	<input type="checkbox"/> Economics <input type="checkbox"/> Media studies <input type="checkbox"/> Sports science	<input type="checkbox"/> Chemistry <input type="checkbox"/> Programming and digital media <input type="checkbox"/> Geography <input type="checkbox"/> Catering	<input type="checkbox"/> Food and nutrition <input type="checkbox"/> History <input type="checkbox"/> Music <input type="checkbox"/> Physics

		Course name and description	Credits		UE approved	✓
			I	E		
<b>Science</b> 	<b>Chemistry</b> (CHE301)	Chemistry is the study of the chemical building blocks that make up the universe. We experiment to analyse chemicals, to learn about the properties of chemicals and how we use the properties of chemicals to improve our lives. This course is recommended to students who have completed Level 2 Chemistry.	10	5	✓	
	<b>Biology</b> (BIO301)	In this course, we learn about the responses plants and animals have to their environment, due to abiotic and biotic factors. This involves a practical investigation. We also learn how the human body responds to changes in the internal environment.	10	5	✓	
	<b>Physics</b> (PHY301)	Physics is about understanding the laws of physics and how these laws relate to everyday situations. Physics is recommended to students who have a strong interest in science and may wish to continue this study at tertiary level.	10	10	✓	
<b>Mathematics</b> 	<b>Statistics</b> (STM301)	This course focuses on the Statistics. Implementing the statistical cycle and the mathematics behind making conclusions. This course is literacy heavy and recommended that for students who have achieved Level 1 literacy.  It is recommended that students have taken STM201.	14	4	✓	
	<b>Calculus</b> (MAC301)	This course focuses on Calculus. Building on algebra and the mathematics behind calculus. This course is numeracy heavy and recommended that for students who have achieved Level 1 numeracy.  It is recommended that students have taken MAC201.	15	6	✓	



**English**

Course name and description	Credits		UE approved	✓
	I	E		
<p><b>English (ENG301)</b></p> <p>These courses offer students further opportunities to make and create meaning of a range of written, visual, oral, and New Zealand texts. Some of these texts will be self-selected by students for a range of purposes and audiences and in a variety of forms. Through both portfolio styles of assessment and examination conditions, students will explore and develop a range of vital skills and key competencies with a focus on language and communication. Students will learn how to think both critically and creatively. At Wairoa College, the study of English incorporates Mātauranga Māori and considers our place in the Pacific. The study of English affirms language as integral to identity.</p> <p>*Course outlines will be co-constructed between students and their teachers for students to pursue their own Personal Excellence (whether it be University Entrance or another learning goal).</p>	13	4*	✓	
<p><b>Media Studies (MED301)</b></p> <p>Media studies is about the active exploration, analysis, creation, and enjoyment of the media and its products. Media studies examines the dynamic role of the media in society, how the media constructs messages about individuals, communities, and cultures and how media products are produced, controlled, and distributed. Media texts covered include advertising, movies, web pages, television, radio and a range of other print based and audio/visual materials. Through media studies students gain the knowledge and skills to conceive, plan, design and make media products that engage audiences. This course develops the ability to think critically and independently.</p>			✓	
<p><b>Te Reo Māori (TRM301)</b></p> <p>The Level 3 programme allows students to expand on their knowledge and understanding of the essential skills in Te Reo Maori. Students will focus more on reading and writing in Te Reo Maori at Level 3 to best prepare students for Tertiary studies if they seek to continue taking the language further. Students are also encouraged to join the kapa haka group to further develop their language skills through waiata and haka. Course expectations are to have 85-90% attendance, complete assessments by due dates and have the appropriate stationery to all classes. Gaining Level 2 Te Reo Māori is a pre-requisite to enter Level 3 Te Reo Māori.</p>	16	12	✓	



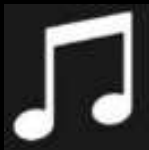
**Te Reo Māori**

**Social Science**



Course name and description	Credits		UE approved	✓
	I	E		
<p><b>Geography</b> (GEO301)</p> <p>Geography is split into two categories: Human Geography and Physical Geography. It is the study of both the land and the people on top of that land. We look at how the land changes people and how people change the land.</p>	11	4	✓	
<p><b>History</b> (HIS301)</p> <p>Students will look at how to organise two different opposing points of view in your mind and then using primary sources in a historical context as evidence, form your own opinion on past and current events from Aotearoa history.</p>	15	6	✓	
<p><b>Economics</b> (ECO301)</p> <p>Students of Economics will analyse economic decisions and activity, and how they affect the individuals and groups involved, understand how to apply economic models and indicators in order to better comprehend the nature of the economic world, and develop analytical and problem-solving skills which can be applied to a range of contexts, not just economic.</p>	10	4	✓	
<p><b>Music</b> (MUS301)</p> <p>Music is a language that allows students to communicate intent, make connections, and build resilience. Students will develop musical skills to help them express and connect with their culture, identity, and feelings. Credits in this subject can be attained via a combination of performance, composition, music technology, research, analysis, and music theory. Students have access to modern facilities and are encouraged to build confidence by entering song-writing and band competitions, as well as perform in front of their peers and community.</p> <p>Course expectations: A positive attitude, commitment to regular practise, a self-directed learning approach. Prior music experience is expected for Level 3.</p>	16	4	✓	

**Music**



**Health and PE**



Course name and description	Credits		UE approved	✓
	I	E		
<p><b>Sports Science (SPS301)</b></p> <p>Sport Science is for students who are interested in participating in a range of physical activities and able to explain biophysical and sociological principles. This course is largely theoretical. Students will build knowledge and apply skills relating to hauora (well-being), interpersonal skills, leadership strategies, anatomy, biomechanics and exercise physiology. This course has a strong Achievement Standard focus. Students are expected to also cover the following areas of study.</p> <p>Students are expected to lead other students in developing their skills. This course aims to be largely student led. Consequently, Year 13 leaders must be self-motivated, work in a team environment and assist each other in the variety of activities. Students will contribute to discussions with their teacher that enables a flexible programme of study to suit both the class and individual students' needs.</p>	16	0	✓	
<p><b>Food and Nutrition (FNT301)</b></p> <p>Students will critically analyse current nutritional issues from a community and global perspective. They will develop research skills and challenge attitudes and values. Having studied this subject at Level 2 will be beneficial, as the underpinning concepts of this topic will already have been taught. This is an approved subject, which is reflected in the level of work required from students. As such, the ability to work independently and meet deadlines is essential.</p>	15	4	✓	
<p><b>Visual Arts (ART301)</b></p> <p>This is a Painting course for all students at Level 3 Visual Arts and has a University Entry status. This course allows students to choose their strengths within a painting medium. Students make their own decisions about the external work content, within the requirements of the Achievement Standard, based on their interest and skill based. Students will need to be highly motivated and complete some work independently inside and outside of school hours.</p>		14	✓	

**Art**



## Technology



Course name and description	Credits		UE approved	✓
	I	E		
<b>Programming and Digital Media (DIT301)</b>				
This course focuses on Python programming, developing digital outcomes and human-computer interfaces. This course builds upon the previous year's course. Strong numeracy and literacy skills are recommended.	20			
<b>Building, Construction and Allied Trades (BCATS302)</b>				
This course develops student understanding of the necessary safety requirements, content knowledge and practical advanced craft skills applicable to acquiring and demonstrating the NCEA competency of accuracy, independence and efficiency of time and materials. Furthermore, there is a deliberate emphasis on fostering independent critical thinking, problem-solving and decision making, with a practical focus on trades-based skills and learning contexts.	14			
<b>Fashion and Textiles (FTX302)</b>				
This course follows the design process, practice health and safety, experiment with specialist equipment, investigate fabrics and fibres to create original textile items for self or whanau. Build on the skills developed in Level 1 to create a techniques portfolio and sew garments.	18			
<b>Catering (CAT302)</b>				
This course focuses on safe, creative and hygienic food and beverage preparation for a range of people and occasions. This course is for students interested in preparing and presenting food and following a career in the food and hospitality industry.	28			
<b>Vocational Studies (VOC302)</b>				
Prepare for the world of work. Identify your employability skills and match to what employers look for. Develop attributes to be an effective and valuable employee. Search for and apply for jobs and training. Identify skills, interests, qualifications and pathways to achieve employment.	16			
<b>Travel and Tourism (TOU302)</b>				
For those interested in a career in the travel and tourism industry. Learn about travelling and experiencing destinations in New Zealand and around the world. How to understand the language of travel.	22			

## Vocational Studies





Note – Each of the courses below are taken in addition to the normal timetabled subjects above. Each of these courses involves 1 day of off-site learning each week.

	Course name and description	Credits		✓
		I	E	
<b>Vocational Studies</b>	<b>EIT Trades Academy</b>			
	The Trades Academy is held every Friday, based at EIT Te Pukenga campus in Gisborne. Build upon the skills learned at Level 2. Hands on experience of a range of engaging and realistic tasks in a tertiary environment. An Open Day is held in August to check it out.  Subjects are- Automotive, Bakery, Building and Construction, Computer Tech, Early Childhood, Engineering, Exercise, Fashion, Forestry, Hair and Beauty, Hauora, Services Preparation, Pikitoi (Maori Art and Design)			
	<b>Star Agriculture (SAG302)</b>			
	For those who like the outdoors, farming, hunting, working with plants and animals. Experience fencing, chainsaws, woolsheds – and all the other aspects involved in farming.	16		
	<b>Gateway</b>			
	Gateway is designed to support students in their transition to the workforce, by providing hands on experience in structured workplace learning in an industry of their choice. This is usually once a week. Students develop health and safety skills, time management, sense of responsibility, communication skills and the confidence to move to possible future employment.			

## Wairoa College Learning and Vocational Pathways

It is important that the course selections you make for 2024 prepare you for your career goals. Look at the careers you are interested in (on the right) and follow the pathway back to the Level you will study next year. These are the courses you should be selecting.

Year 9 & 10	NCEA Level One	NCEA Level Two	NCEA Level Three	Vocational Pathways
Science	Science	Biology	Biology (UE)	Biology is recommended for any student considering a pathway in any career linked to health sciences (doctor, nurse, vet, quarantine officer, etc.), food technology, agriculture, horticulture, aquaculture, and environmental science.
		Chemistry	Chemistry (UE)	Chemistry can lead to a number of 21st century careers including: medicine and other health sciences (vet, pharmacy, physiotherapy, dentistry, nursing, etc.), engineering, food technology, agriculture, horticulture and environmental science.
		Physics	Physics (UE)	Physics is necessary for students wishing to go into any engineering career. Physics is also recommended for a career in medicine and other health sciences (nursing, radiography etc.) and architecture.
Agricultural and horticultural science	Agricultural and horticultural science			Agriculture and Horticulture Science is a nationally significant subject, due to its contribution to the economy. Students who take this subject will have numerous career pathways including further study in subjects such as Ag-Science, Agribusiness, Technology, Soil Sciences, Forestry, Viticulture, Microbiology, Environmental Sciences, and Aquaculture. Or more practical career pathways such as Dairy, Sheep, and Beef farming, Crops and Horticulture cultivation, Fishing and Seafood industry, Nursery and Floriculture production, Silviculture, and Amenity Garden and Sports Turf Management.
English	English	English	English (UE)	Journalist, reporter, radio broadcaster, author, teacher, medical professional, lawyer, editor, film and TV producer/director, librarian, scientist, film reviewer and a range of other pathways that require employees to communicate in a variety of ways.
		Media Studies	Media Studies	Media Studies graduates can find job opportunities in Marketing, Broadcasting, Photography. Other areas include: digital marketing specialist, media planner, public relations (PR) specialist, social media manager and web content manager.
Mathematics	Mathematics 1	Statistics	Statistics (UE)	Building and Construction, Engineering, Manufacturing and Technology, Primary Industries, Service or Creative Industry.
		Calculus	Calculus (UE)	
	Mathematics 2	Mathematics		

Year 9 & 10	NCEA Level One	NCEA Level Two	NCEA Level Three	Vocational Pathways
Social Studies	Geography	Geography	Geography (UE)	Beyond school, Geography can be a pathway to further education and training related to a range of sectors such as: primary industries, services, social and community, manufacturing and technology, construction and infrastructure, creative industries.
	History	History	History (UE)	History falls under the Social and Community Services Vocational Pathway. Where possible, History at Wairoa College encompasses events occurring in New Zealand and/or global events involving or influencing New Zealanders.
	Economics	Economics	Economics (UE)	The study of economics could lead to a career in business, finance, accountancy, construction management, teaching, real estate, and government.
Health and PE	Sports Science	Sports Science	Sports Science (UE)	Plan and run leisure programmes, Conservation (e.g., ranger), Defence force, Education, Health (e.g., massage therapist, podiatrist), Public order and safety (e.g., fire fighter, police officer), Sport and recreation (e.g., personal trainer, sports coach).
	Food and nutrition	Food and nutrition	Food and nutrition (UE)	Social and Community Services sector, such as nursing and care giving or in the Service Industries sector, such as a food safety officer. Other pathways include health promotion, dietician, food marketing, public health, teaching, early childhood, education, nursing, nutritionist within a variety of sectors, including sports nutrition. Food Scientist, Ministry of Primary Industries , Nutritionist, Food Technologist, Nutrition Policy Advisor, Agri-food production , Sustainable Food Production,
Te Reo Maori	Te Reo Maori	Te Reo Maori	Te Reo Maori (UE)	Vocational pathways: Continue taking Te Reo Maori into Tertiary studies. Being able to converse in Te Reo Maori can be advantageous in any career with Maori Media, Maori Education, Maori Language Interpreter, Tour Guide, Maori Arts—music, kapa haka, carving, weaving, kowhaiwhai, Political arena, Justice department.
DIT	Programming and digital media	Programming and digital media	Programming and digital media	Specialist careers can include programmer, video editor, web analytics specialists, web developer, video game designer, and many more.
HMT	Building and construction	Building and construction	Building and construction	Prospective careers and or Trades that this course aligns with, include that of a Builder, Plumber, Electrician, Roofer, Joiner, Furniture maker, Painter, Glazier, Plasterer etc.

Year 9 & 10	NCEA Level One	NCEA Level Two	NCEA Level Three	Vocational Pathways
Food Technology	Food technology	Café Culture	Catering	Food production in hospitality industry e.g. Café, Hotel, food technologist, Chef, barista, café and restaurant worker, food designer, waiter, bar staff and cook.
Textiles Technology	Textiles Technology	Fashion and Textiles	Fashion and Textiles	Fashion design, fashion retail, clothing manufacture, machinist, pattern designer, patternmaker, textiles designer, interior designer, upholsterer, weaver, screen printer, pattern cutter, costume design, wardrobe, tailor, dressmaker, milliner, craftsperson.
Music	Music	Music	Music (UE)	Bachelor of Performing Arts, Bachelor of Arts, Bachelor of Music, music therapist, events coordinator, songwriter, producer, recording artist, sound engineer, session musician, music teacher, instrument tutor, conductor, and a range of other career options in theatre, film, TV, media, and the music industry.
Art	Art	Art - painting	Art - painting (UE)	Visual Arts learning is relevant to a wide range of occupations and there are exciting new art-related occupations being created all the time. Some possible careers outside of school include: 2D or 3D modeller or artist, game artist, animator, digital designer, marketing and social media designer, product designer, CAM designer, shader artist (game development), TV and film producer, and special effects artist.

## Vocational Study Pathways

NCEA Level One	NCEA Level Two	NCEA Level Three	Vocational Pathways
	Vocational Studies	Vocational Studies	Links to the full range of possible careers in all the Vocational Pathways: Building and Construction, Engineering, Manufacturing and Technology, Primary Industries, Service or Creative Industry.
	<b>EIT Trades academy</b> Automotive Barbering Building and Construction Computer Tech Early Childhood Fashion Forestry Hair and Beauty Hospitality Creative Skills Trades skills Services Preparation Sport Skills Pikitoi (Maori Art and Design)	<b>EIT Trades academy</b> Automotive Bakery Building and Construction Computer Tech Early Childhood Engineering Exercise Fashion Forestry Hair and Beauty Hauora Services Preparation Pikitoi (Maori Art and Design)	Trades Academy leads to a range of Trades Based careers in all of the Vocational Pathways: Building and Construction, Engineering, Manufacturing and Technology, Primary Industries, Service or Creative Industry.
	<b>GATEWAY:</b> Learning linked to work experience.	<b>GATEWAY:</b> Learning linked to work experience.	Gateway links to careers in all of the Vocational Pathways: Building and Construction, Engineering, Manufacturing and Technology, Primary Industries, Service or Creative Industry.
<b>STAR:</b> Agriculture	<b>STAR:</b> Travel and Tourism Agriculture	<b>STAR:</b> Travel and Tourism Agriculture	Tourism: Flight attendant, events manager, hotel manager, hotel reception, travel agent, tour guide, cruise ship worker, reservations and ticketing, eco-tourism, Maori tourism, chauffeur, foreign exchange, information centres...  Agriculture: Farmer, shearer, shepherd, possum trapper, fencer, farm manager, dog handler, wool classer, livestock work, stock and station agent, environmental
	Services Academy		Army, Navy, Air Force, Police Force