

## TECHNOLOGY

Design and Visual Communication Level 2 (12 DVC A)			Teacher to see: Ms Bunt		
Students build on their knowledge from Level 1 to create design solutions for architectural and spatial design contexts. Ākonga explore their own design style and develop their ability to accurately communicate visually their ideas through freehand sketching, instrumental drawing including CAD and modelling.					
Prerequisites: Level 1 DVC and HOD discretion.					
Credits			Standards	Cost	\$20 specialist drawing equipment and supplies.
Internal	External	Total	Achievement Standards	Course endorsement	Yes
19	6	24		UE approved	N/A
Future possibilities: Creative design industries particularly Architecture, Interior, Landscape and Spatial Design.					

Design and Visual Communication Level 3 (13 DVC A)			Teacher to see: Ms Bunt		
This course establishes students as independent designers, developing their own individualised architectural solution. Ākonga will develop sophisticated visual communication techniques to accurately present their ideas in both freehand drawing methods and utilising CAD including Graphisoft, Techsoft, Sketchup and Adobe Creative Suite. Students have the opportunity to submit work for Scholarship in this course.					
Prerequisites: Level 2 DVC or at discretion of the HOD.					
Credits			Standards	Cost	\$30 specialist drawing equipment
Internal	External	Total	Achievement Standards	Course endorsement	Yes
19	3	22		UE approved	Yes
Future possibilities: Creative design industries particularly Architecture, Interior, Landscape and Spatial Design.					

Digital Technology Level 2 (12 DGT A)			Teacher to see: Mr Semmons		
The first half of this course is focussed on students learning how to apply creative digital media concepts. This includes Adobe Photoshop and Illustrator, design conventions, and website development skills. Ākonga will then learn how to manage data on Microsoft access and SQL. For the final standard, they will further develop their programming skills.					
Prerequisites: Preferable to have successfully completed DGT101. Students with a passion for digital technology who have not taken the subject in Year 11 can also take the course with HOD permission.					
Credits			Standards	Cost	None
Internal	External	Total		Course endorsement	Yes
16	3	19		UE approved	Not applicable
Future possibilities: Students can acquire the knowledge and skills to specialise in a wide variety of careers or study options within the area of computer science and game design and development.					

Digital Technology Level 3 (13 DGT A)			Teacher to see: Mr Semmons		
The first half of this course is focussed on further developing their creative digital media skills. This includes Adobe Photoshop and Illustrator, design conventions, and website development skills. Ākonga will need to show complex techniques and improvements from their previous digital outcomes. They will learn new skills in data management and programming and will have the opportunity to submit work for Scholarship in this course.					
Prerequisites: Successful completion of Digital Technologies at Level 2 is strongly recommended. Students who have not taken the subject previously at senior school should see the teacher in charge.					
Credits			Standards	Cost	None
Internal	External	Total	Achievement Standards	Course endorsement	Yes
16	3	19		UE approved	Yes
Future possibilities: This course is essential for those students wishing to study computer science at university. It is also valuable for students interested in pursuing higher studies in other areas such as engineering and science.					

Engineering Technology Level 2 (12 EGT U)			Teachers to see: Mr Course/Mr Scott/Mr Hine		
This course is an advancement of skills from Level 1 Engineering. Students will develop higher level practical solutions in the workshop by making a range of engineered projects. These advanced skills are developed using engineering processes with workshop tools and equipment. Assessments include finished engineered products with a written component evidencing knowledge gained.					
Prerequisites: Students should have studied Level 1 Engineering or at HOD discretion.					
Credits			Standards	Cost	\$60 for materials used for take home projects.
Internal	External	Total	Unit Standards	Course endorsement	No
20	0	20		UE approved	Not applicable
Future possibilities: Any mechanical engineering industry, general engineering, fitting turning and tool making, marine engineering and fabrication, accuracy and precision in manufacturing.					

Engineering Technology Level 3 (13 EGT U)			Teacher to see: Mr Scott		
This course is for students who wish to complete further engineering skills and develop high level practical solutions by making a range of engineering projects using advanced machinery and processes. This is a unit standard based course where assessment is both through practical outcome and paperwork that shows evidence of accuracy, precision, engineering knowledge and understanding.					
Prerequisites: Students should have studied and achieved in Level 2 Engineering.					
Credits			Standards	Cost	\$60 material costs for take home projects (further costs could be added for large projects)
Internal	External	Total	Unit Standards	Course endorsement	No
20	0	20		UE approved	No

Furniture Production Technology Level 2 (12 FPT U)				Teacher to see: Mr Perillo	
At Level 2 students will continue to develop practical solutions in our wood workshops by learning a range of skills that are transferable between furniture making and carpentry. Ākonga will learn to use a range of tools and modern machinery as well as traditional woodworking methods to create practical outcomes. The project the ākonga will undertake will expand the students’ skills and knowledge when working with different types of timber and will explore a variety of marking out, cutting and assembly skills. Unit Standards will be completed over the course of the year.					
Prerequisites: Level 1 FPT or HOD discretion.					
Credits			Standards	Cost	\$60 material costs for take home projects (further costs could apply for large projects)
Internal	External	Total	Unit Standards	Course endorsement	No
17	0	17		UE approved	Not applicable
Future possibilities: Any building and construction career, cabinet making, furniture making.					

Hospitality Level 2 (12 HOS U)			Teacher to see: Ms Pepper		
This is a practical, hospitality industry course with standards in cookery and front of house service recognised by Service IQ / Te Pūkenga. Students are expected to work at a higher level with greater accuracy and commercial equipment is used to prepare café quality dishes. Ākonga have the opportunity to gain credits in the application of barista skills through the school Hot Shotz Café.					
Prerequisites: Preference given to students who have completed food studies at Level 1.					
Credits			Standards	Cost	None
Internal	External	Total	Unit Standards	Course endorsement	No
19	0	19		UE approved	Not applicable
Future possibilities: Careers in the hospitality industry in businesses such as cafes, restaurants and bars in front-of-house. Further study to gain chef qualifications. Careers in tourism.					

Mixed Materials Technology Level 2 (12 MXT A)			Teacher to see: Mr Course		
This course continues to expand on the product design process by developing skills and awareness in existing product research, sustainable design, and a variety of processing technologies. Using these skills, students create a materials and processing technology outcome using a range of mixed materials, including but not limited to wood, plastic, and metal. Ākonga will use a combination of practical workshop skills and computer aided design to complete their projects.					
Prerequisites: It would be an advantage for students to have studied MXT101, DVC101, TXT101. HOD discretion.					
Credits			Standards	Cost	\$30 for materials used in take home projects
Internal	External	Total	Achievement Standards	Course endorsement	Yes
16	4	20		UE approved	Not applicable
Future possibilities: Product/industrial design, fashion design, jewellery and accessory design.					

Mixed Materials Technology Level 3 (13 MXT A)			Teacher to see: Mr Course		
This course follows the product design process. Students will be focusing on the key skills of this process including: awareness in existing product research, sustainable design, and a variety of processing technologies. Using these skills ākonga create a materials and processing technology outcome using a range of mixed materials, including but not limited to wood, plastic, and metal. Ākonga will use a combination of practical workshop skills and computer aided design to complete their projects and will have the opportunity to submit work for Scholarship in this course.					
Prerequisites: It would be an advantage for students to have studied Level 2 MXT, DVC, TXT. HOD discretion.					
Credits			Standards	Cost	\$30 towards materials for take home products
Internal	External	Total	Achievement Standards	Course endorsement	Yes
16	0	16		UE approved	Yes
Future possibilities: Any product or industrial design career or university course, interior designer, furniture design, textile design, fashion/jewellery/accessory design, computer aided design and manufacturing careers.					

Textiles Technology Level 2 (12 TXT A)			Teacher to see: Ms Brown-Hawke		
This course offers the opportunity for students to design, develop and construct a textile product that addresses an issue within the local community. Ākonga will gain practical sewing and textile construction skills by investigating traditional and contemporary materials and techniques to solve authentic problems sustainably.					
Prerequisites: It would be an advantage for students to have studied TXT101. HOD discretion.					
Credits			Standards	Cost	\$30 towards materials for take home products
Internal	External	Total	Achievement Standards	Course endorsement	Yes
16	0	16		UE approved	Yes
Future possibilities: Any product or industrial design career or university course, interior designer, furniture design, textile design, fashion/jewellery/accessory design, computer aided design and manufacturing careers.					

Textiles Technology Level 3 (13 TXT A)			Teacher to see: Ms Brown-Hawke		
This course offers the opportunity for students to design, develop and construct a textile product that addresses an issue or opportunity of their choice. Ākonga will gain advanced practical sewing and textile construction skills by investigating traditional and contemporary materials and techniques to solve authentic problems sustainably. Ākonga have the opportunity to submit work for Scholarship in this course.					
Prerequisites: It would be an advantage for students to have studied TXT201. HOD discretion.					
Credits			Standards	Cost	\$30 towards materials for take home products
Internal	External	Total	Achievement Standards	Course endorsement	Yes
16	0	16		UE approved	Yes
Future possibilities: Any product or industrial design career or university course, interior designer, furniture design, textile design, fashion/jewellery/accessory design, computer aided design and manufacturing careers.					