Stage 5 Curriculum Information for 2027

Cherrybrook Technology High School

Years 9 & 10, 2027

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STAFF DIRECTORY			
Principal			
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Wellbeing Team			
Head Teacher Stage 5	Gary Monahan	**Head Teacher Wellbeing**	Peter Hind
Year 9 Student Adviser	Victoria Porreca	**School Counsellor**	Meghan Montefiore
Year 9 Student Adviser	Zahra Stace	**School Counsellor**	Maria Kim
Year 10 Student Adviser	Jessica Morgan	**Learning & Support**	Stanley Liu
Year 10 Student Adviser	David Oksinski		
Careers Adviser	Franchesca Arroyo		
Careers Adviser	Daniel Moss		
Head Teachers			
Creative Arts	Lisa Holt (rel)	**Science**	Marina Siratkov
English	Stephen Henry	**TAS 1 - Home Ec & Computing**	Lisa Robinson
English	Emma Campbell	**TAS 2 - Ind Arts**	Oliver Meredith (rel)
HSIE - History	Peter Hartman	**Stage 4**	Rebecca Howard
HSIE - Geo, Eco, Legal	Nick Fernandez	**Stage 6**	Florence Adamou
LOTE	Masami Arkins	**Student Programs**	Juliet Navarro
Mathematics	Jennifer Bowen	**Teaching & Learning 1**	Grant Robinson
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PDHPE	Jeffrey Perry, Jess Morgan	**Administration 1**	Christopher Edinborough
		Administration 2	Belinda Eathorne

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INTRODUCTION

This booklet has been prepared to help students and parents find their way through the complex curriculum structure on offer to students in Stage 5 at Cherrybrook Technology High School. It should be closely read and used as a reference for students and parents about the patterns of study available to students as well as essential information about each subject and course and the manner in which these are assessed and graded.

The Stage 5 curriculum culminates in the award of grades, which are forwarded to the NSW Education Standards Authority (NESA) for the *Record of School Achievement* (RoSA). While it is expected that the vast bulk of students at Cherrybrook will continue their studies in Years 11 and 12 for the award of the Higher School Certificate, student work in Stage 5 is nevertheless crucial for future success. Students will gain skills and knowledge over the next two years, which will be essential for their further learning and also develop appropriate study skills and self-discipline.

Cherrybrook's innovative curriculum structure in Stage 5 allows for a very broad range of electives and it is important that students discuss these many options with their parents or care providers and choose subjects and courses that are commensurate with their skills, abilities and interests. Students should seek advice from appropriate staff if they are unsure of any details prior to making their final decision.

The commencement of Stage 5 is an exciting time for students. They are offered new challenges and for the first time in their school careers have real choices in terms of the curriculum they study. I would like to take this opportunity to wish each student well for their studies in Stage 5 and implore each student to commit themselves to their studies and enjoy the curriculum pattern they choose.

Mr Matt Townsend
Principal

THE SEMESTER SYSTEM AT CTHS

The Stage 5 semester system is a unique opportunity provided by CTHS that engages all students in their learning in an interesting and challenging way. Through our semester course system, the interests of students are catered for by offering a depth and breadth of academic opportunities that few schools are capable of providing.

The elective curriculum is organised into units of work which are one semester (two terms) in length. Elective subjects are referred to as "courses". Each course is broken up into classes which are referred to as "units". Each unit is worth 50 hours towards the *Record of School Achievement*. Semester units are vertically integrated across Stage 5. This means that classes may be a combination of Year 9 and 10 students. All students in a vertical class study the same course.

Courses which are **not** run along semester lines include:

- English
- Mathematics
- Science
- PDHPE

It is important to note that some semester units are designed to be completed sequentially - each unit becomes a prerequisite for the next. For example, to study 'Electronics 2', it is necessary to have successfully completed 'Electronics 1'. All prerequisites are clearly stated in the unit descriptions to follow.

Students must be aware that in order to satisfy the elective study requirements, students may be required to complete particular units designated as 'core'. For example, in order to qualify for 100 or 200 hours in the Commerce course students must complete the units 9HCA (Smart Spending and Earning) and 9HCB (Markets and the Legal System). In addition, some semester units have payment attached to cover unit materials and consumables. These unit payment are clearly described in the unit descriptions and are compulsory. There are many units offered which do not attract payment. Payment will be invoiced and should be made within two weeks.

Stage 5 Eligibility

Students entering Year 9 are eligible for the NSW Education Standards Authority (NESA) credential, the *Record of School Achievement* (RoSA) when they have completed Stage 5 at the end of Year 10. The RoSA will be issued to students only if they complete Year 10 and leave school before they complete the HSC.
Students must have:

- Attended a government school or have attended a registered non-government school to which a current certificate of accreditation for presentation of candidates for the *Record of School Achievement applies*, or have attended a school outside New South Wales recognised by NESA
- Participated and satisfactorily completed courses of study which have been determined as appropriate by the NESA for the *Record of School Achievement*
- To the NESA's satisfaction, undertaken the requisite examinations or other forms of assessment
- Completed Year 10
- Students completing Year 12 will be advised of their RoSA grade or a record of achievement which acknowledges their HSC.

Issuance of RoSA

Students, who the Principal has indicated are leaving school and have met all the requirements, will receive a *Record of School Achievement* credential from the NSW Education Standards Authority (NESA). Students, who are leaving school, but who have not met the requirements for the *Record of School Achievement*, will receive a Transcript of Study from NESA.

End of the school year for school leavers
A requirement for the award of the *Record of School Achievement* is that students attend until the final day of Year 10 as determined by the Principal.

Unit Performance Descriptors

Performance descriptors have been developed for **each** Stage 5 NESA Developed unit. The descriptor that provides the best overall description of the student's achievement, at the end of Stage 5, will determine the grade awarded.
For NESA Endorsed School Developed Courses and Content Endorsed Courses, the *Common Grade Scale* will be used.
The descriptors describe the main features of a typical student's performance at each grade measured against the syllabus objectives and outcomes for the course.

NESA Developed Courses

Courses developed by NESA.

NESA Endorsed Courses

School developed NESA endorsed courses, designed by the school to meet the local needs of students.

Content Endorsed Courses

Courses developed by NESA for a wide candidature.

Non-Completion of the Requirements of a Stage 5 (Year 9 and 10) Course

Any course not satisfactorily completed appears on the student's transcript of results as 'Not Completed'. Where non-completion is in a mandatory course, the student will not be eligible for the award of the Record of School Achievement and may not be eligible to enter Preliminary (Year 11) courses.

The NSW Education Standards Authority (NESA) requires schools to issue students with a minimum of two course specific official warnings in order to give them the opportunity to redeem themselves.

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HSC Minimum Standards in Literacy and Numeracy

In 2018 the NSW Education Standards Authority (NESA) introduced the HSC minimum standard to help ensure students have the key literacy and numeracy skills for life after school. Students in New South Wales will need to demonstrate a minimum standard of literacy and numeracy to receive the HSC credential from 2023. Information and resources on the minimum standard are available on the NESA website, NESA Schools Online and the department's HSC minimum standard webpage.

Selection of Stage 5 Courses

To satisfy the minimum requirements for the RoSA, students at Cherrybrook Technology High School will complete the following course of study throughout Year 9 and 10:

- English
- Mathematics
- Science
- Personal Development, Health and Physical Education (PDHPE)
- Australian History
- Geography

And a minimum of four 100-hour elective courses:

- Two 200-hour elective courses (consisting of 4 different units with the same prefix over two years)
- Four 100-hour elective courses (consisting of 2 units with the same prefix over one or two years)
- Any combination of 100 and 200-hour elective courses.

Please note due to the physical requirements of PDHPE Mandatory and Elective units and to reduce injuries, students will be limited to completing **no more than 50 hours (1 PDHPE elective class) per semester and no more than 100 hours (2 PDHPE elective classes) in any one year.** Exception to this rule will be determined by the Head Teacher PDHPE on application and a case-by-case basis.

Pattern 1 - Two 200-hour courses
Sample Student Program 1:
(first) 200-hour course in Food Technology: 1. TFA - Healthy Living for Life 2. TFB - Food for All 3. TFC - The Business of Food 4. TFD - Australian Cuisine
(second) 200-hour course in Automotive: 1. TV1 - Automotive 1 2. TV2 - Automotive 2 3. TV3 - Automotive 3 4. TV4 - Automotive 4
OR

Pattern 2 - One 200 hour & Two 100-hour courses
Sample Student Program 2:
200-hour course in Visual Arts: 1. CVC - Masters of Painting 2. CVD - Contemporary Expressive Painting 3. CVE - Ceramics - Hand-building and Decorative Techniques 4. CVF - Ceramics - Form and Function
(first) 100-hour course in Commerce: 1. 9HCA - Smart Spending & Earning (core) 2. 9HCE - Law in Action
(second) 100-hour course in Elective History: 1. HHA - Archaeology: Digging up the Past 2. HHC - Technology of Warfare OR

Pattern 3 - Four 100-hour courses	In addition, students will have eight extra semester units available over the two years. • One of these units will be allocated to Vocational Education in Year 10 • Another of these units must be allocated to the Science B unit in Year 10, to meet the minimum hours required for science • The remaining six units may be used for 'one-off' subjects • 100-hour elective courses can be increased to 200-hour elective courses by completing an additional two units. • These are the minimum requirements and patterns of study can be changed and adjusted each semester depending on availability.
Sample Student Program 3:	
(first) 100-hour course in Computing Technology: 1. TCN – Modelling Networks & Social Connections 2. TCM – Building Mechatronic & Automated Systems	
(second) 100-hour course in Drama: 1. CDA – Swords, Wigs & Tic Toks – Theatre Evolution 2. CDB – Jump, Flip, Act: Physical Theatre 101	
(third) 100-hour course in Physical Activity and Sport Studies: 1. PSP - Sports Performance 2. PSM - Sports Medicine	
(fourth) 100-hour course in Japanese: 1. LN3 - Japanese Level 3 2. LN4 - Japanese Level 4	

Assessment of Stage 5 Courses

All units studied by students consist of internal assessment requirements. Assessment procedures for each KLA will vary according to the needs of the specific unit. If you have any questions in relation to the assessment of a particular unit, please contact the Head Teacher of that subject area.

Student achievement will result in a grade being awarded which indicates the general performance of the student in this unit. These results are to be shown on the separate NSW Education Standards Authority (NESA) Document - *Record of School Achievement* at the completion of Year 10. The course performance descriptors that assist schools in allocating grades vary between subject areas but are explained by the NESA at http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/leaving-school/record-of-school-achievement#reporting

Changing Your Selections

Students may apply to change units chosen while in Years 9 and 10. Considerable effort is made to satisfy the requests from students; however, it should be noted that classes will be allocated on the basis of these primary selections and class changes will only be possible when there is room in the new classes being selected. Students must also review and be responsible for the impact the change may have on their 200 hr and 100 hr course electives. Requests for change will not be granted if they render the student ineligible to complete the Stage 5 requirements.

Students will be provided with printouts of their unit selections on several occasions throughout Stage 5. These will be used to check that the subjects being undertaken by each student satisfies both *Department of Education and Communities* and *NSW Education Standards Authority* requirements.

Students will be informed at the end of each semester when changes to their selections can be made.

While every effort is made to satisfy student requests for courses, this is not always possible. Units are assigned at the discretion of the Principal and Stage 5 Head Teacher in accordance with the NSW Education Standards Authority (NESA), school and stage requirements.

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STAGE 5 ASSESSMENT TASK
ABSENCE OR MISADVENTURE POLICY

- Each student is expected to complete all assessment tasks.

- All work completed must be the student's own work. Work submitted containing work not done by the student may receive zero marks.

- Assessment task dates will usually be communicated by the class teacher at least two weeks before completion date.

- If a student is absent from an assessment task or fails to submit a task on or before the due date, a mark of ZERO will be recorded until the result of any appeals is determined.

- If a student knows beforehand that they will be absent, they MUST inform the Head Teacher of the course beforehand to complete an Absence/Misadventure Form before the date of the task.

- If a student is absent from an assessment task, the student has the responsibility of reporting to the Head Teacher of their course on their arrival at school to arrange to complete the task. Failure to do will be considered late work. An Absence/Misadventure form must then be completed. A substitute task may be given.

- If a student wishes to appeal for a task not attempted or a task completed under adverse conditions (e.g. absence) an Absence/Misadventure Appeal form MUST be completed and returned to the appropriate Head Teacher on the first day returning to school. It is the student's responsibility to ensure that the appeal form is completed correctly. All parts must be completed before submitting to the Head Teacher.

- Plagiarism is considered malpractice. Plagiarism is the use of the work of others without acknowledgement and includes:

    - The submission of part or all of someone else's work
    - The copying of paragraphs or sentences from external sources without referencing.

- If a student receives a zero mark, parents will be notified and made aware of the potential consequences.

Frequently Asked Questions

What should you do if?

Issue	Process
Sick and can't attend school to complete an EXAM	- Before school on your first day back, report to KLA Head Teacher with completed Absence and Misadventure Form (from Canvas) - KLA Head Teacher will discuss options for you to complete task at a later date.
Won't be at school on the day of an EXAM (including other school commitments, approved leave, etc)	- Submit Absence and Misadventure Form (from Canvas) to KLA Head Teacher as soon as possible prior to the exam. - KLA Head Teacher will discuss options for you to complete task at an alternative date.
Sick and can't get to school to hand in TASK	- Arrange to get the task to school via an alternate method (Canvas, Email, Sibling, Friend). - Submit an Absence and Misadventure Form on your first day back if you failed to get the assessment task to school on time.
Technological Issues with hand in TASK	- Submit Absence and Misadventure Form (from Canvas) to KLA Head Teacher as soon as possible from once the issues arises.
Issues with delivering a SPEECH or PRESENTATION	- Submit Absence and Misadventure Form (from Canvas) to KLA Head Teacher prior to speech or presentation. - KLA Head Teacher will discuss the alternatives for you to complete task.

STAGE 5 ASSESSMENT TASK
ABSENCE OR MISADVENTURE FORM

A student who believes that circumstances occurring immediately prior to or on the day of an assessment task and which were beyond their control, leading to missing a task, should complete this form and give it to the appropriate **KLA Head Teacher, no later than the next school day on return to school.**

In dealing with absence or misadventure **there can be no consideration for**:

- Difficulties in preparation or general loss of preparation time
- Loss of study time or facilities prior to the formal assessment
- Misreading of the timetable or instructions
- Long term absence, such as glandular fever, asthma and epilepsy – unless there is evidence of a sudden recurrence during the examination period
- Conditions for which you have been granted disability provisions, unless you experience further difficulties
- Attendance at a sporting or cultural event
- Matters that could have been avoided by the student.

Please see the Head Teacher Stage 5 for further information. Note: Failure to fully complete this form or provide necessary details and supporting documentation will result in an application being declined.

Student's name: _____ Year: ☐ 9 ☐ 10

Course: _____ Class Teacher: _____

Name of assessment task affected: _____

Original date of assessment task:_____

Attach a copy of the assessment notification for an in-class assessment task.

Students must describe how the absence or misadventure suffered **has affected their ability to complete the assessment task**. Attach independent evidence (if available) of the absence or misadventure.

_____

_____

_____

_____

_____

_____

_____

Student's signature:_____Date:_____

Parent's signature:_____Date:_____

Please submit this application to the KLA Head Teacher no later than one day after the assessment task.

For Office Use Only

Date submitted: _____Received by: _____

KLA Head Teacher Decision:

STAGE 5 COURSE OVERVIEW

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
Creative & Performing Arts (CAPA)	**Dance**	Accelerated Dance (preliminary)	11DNC	
		Dance Performance	CAA	
		Jazz & Musical Theatre	CAB	
		Contemporary & Lyrical	CAC	
		Composition & Choreography	CAD	
	Drama	Swords, Wigs & Tic Toks - Theatre's Evolution	CDA	
		Jump, Flip, Act: Physical Theatre 101	CDB	
		From Selfie to Screen; Acting for TV/Film	CDC	
		Production & Performance Industry	CDD	
	Music	Foundational Compositional Techniques	CMA	
		Jazz & Cultures	CMB	
		Recording Industry Skills	CMC	
		Let's Rock!	CMD	
	Visual Arts	Drawing & Illustration	CVA	
		Contemporary Drawing	CVB	
		Master of Painting	CVC	
		Contemporary Expressive Painting	CVD	
		Ceramics - Hand Building & Decorative Techniques	CVE	
		Ceramics - Form & Function	CVF	
		GATS - Intensive Studio Practice 1	CVG1	
		GATS - Intensive Studio Practice 2	CVG2	
		Digital Imaging	CVH	
		AI in Art	CVI	
		Movie Making	CVJ	
		Print Making	CVK	
		Sculpture	CVM	
	Photography	Photography - The Wet Darkroom	CPA	
		Digital Photography	CPB	

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
English		Compulsory Unit	ENG	
	English Elective	Podcasting & Critical Thinking	EPO	
		English Speakers	ESP	**NESA Approved Course**
		Writers & Writing	EWR	**NESA Approved Course**
		English Language & Culture	EAL/D	

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
Human Society & its Environment (HSIE)	**Commerce**	Core 1 - Smart Spending & Earning	HCA	
		Core 2 - Markets & the Legal System	HCB	
		Core 3 - Economic Structures & decision Making	HCC	
		Option 1 - Running a Business	HCD	
		Option 2 - Law in Action	HCE	
		Option 3 - Investigating & independent Decision Making	HCF	
	Geography	Year 9 Geography (mandatory)	9GEO	
		Year 10 Geography (mandatory)	10GEO	
	Geography Elective	Disasters	HGA	
		Global Issues	HGB	
	History	Year 9 History (mandatory)	9HIS	
		Year 10 History (mandatory)	10HIS	
	History Elective	Making History - Medieval 1	HHM1	
		Making History - Medieval 2	HHM2	HHM1
		Archaeology: Digging up the Past	HHA	
		Life in the Classical World	HHB	
		Technology of Warfare	HHC	
		History's Mysteries	HHD	
		History on Screen	HHE	
		Forgotten Histories	HHF	
	Aboriginal Studies	Accelerated Aboriginal Studies (preliminary)	11ABS	

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
Languages Other Than English (LOTE)	Enquiries regarding Schools of Community Languages and Distance Education courses should be directed to HT - LOTE			
	French	French Level 3 (Year 9, Sem 1)	LF3	
		French Level 4 (Year 9, Sem 2)	LF4	LF3
		French Level 5 (Year 10, Sem 1)	LF5	LF4
		French Level 6 (Year 10, Sem 2)	LF6	LF5
	Chinese	Chinese Level 3 (Year 9, Sem 1)	LC3	
		Chinese Level 4 (Year 9, Sem 2)	LC4	LC3
		Chinese Level 5 (Year 10, Sem 1)	LC5	LC4
		Chinese Level 6 (Year 10, Sem 2)	LC6	LC5
	Japanese	Japanese Level 3 (Year 9, Sem 1)	LJ3	
		Japanese Level 4 (Year 9, Sem 2)	LJ4	LJ3
		Japanese Level 5 (Year 10, Sem 1)	LJ5	LJ4
		Japanese Level 6 (Year 10, Sem 2)	LJ6	LJ5

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
Mathematics	**Mathematics**	Compulsory Unit	M5	Courses are streamed into Core and Paths

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
PDHP	**PE**	Compulsory Unit	PHP	
	Physical Activity & Sports Studies	Sports Coaching	PSC	
		Sports Fitness	PSF	
		Sports Medicine	PSM	
		Sports Performance	PSP	
		High Performance - Basketball	PBB	
		High Performance - Cricket	PCR	
		High Performance - Netball	PNB	
		High Performance - Soccer	PSO	
		High Performance - Volleyball	PVO	

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
Science		Compulsory **Year 9** Unit	SCI	
		Science Core A (**Year 10**)	SCA	
		Science Core B (**Year 10**)	SCB	

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
Computing	**Computing Technology**	Modelling Networks & Social Connections	9CTN	Enterprise information systems
		Designing for the User Experience	9CTX	
		Analysing Data	9CTD	
		Building Mechatronic & Automated Systems	9CTM	Software Development
		Creating Games & Simulations	9CTG	
		Developing Apps & Web Software	9CTA	

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
Technological & Applied Studies (TAS)	**Agriculture Technology**	Agricultural Systems	TAA	
		Agricultural Electives	TAB	
	Child Studies	Birth, Babies & Newborn Care	THA	**NESA Endorsed Course**
		Toddlers, Tantrums & Children	THB	
	Graphics Technology	Graphics Technology 1	TG1	
		Graphics Technology 2	TG2	TG1
		Graphics Technology 3	TG3	TG2
		Graphics Technology 4	TG4	TG3
	Food Technology	Healthy Living for Life	TFA	
		Food for All	TFB	
		The Business of Food	TFC	
		Australian Cuisine	TFD	
	Textiles Technology	Casual, Street & Beachwear	TTA	
		Textiles, Toys & Costumes	TTB	
	Design & Technology / STEM	Amazing Young Fashion Designers	TDA	
		Renovation Rescue	TDB	
		STEM 1	TS1	
		STEM 2	TS2	TS1
		STEM 3	TS3	TS2
		STEM 4	TS4	TS3
	Students may have up to two (2) courses based on the Industrial Technology Syllabus recorded for their Record of School Achievement (RoSA). • **Two x 200hrs Courses** • **One x 200hrs and One x 100hrs Courses** • **Two x 100hrs Courses**			
	NESA Course	**CTHS Subjects**	**Class Code**	**Prerequisite**
	Indus Tech - Art Metal (Jewellery)	Jewellery 1	TR1	
		Jewellery 2	TR2	TR1
		Jewellery 3	TR3	TR2
		Jewellery 4	TR4	TR2
	Indus Tech - Building & Construction	Building & Construction 1	TB1	
		Building & Construction 2	TB2	TB1
		Building & Construction 3	TB3	TB2
		Building & Construction 4	TB4	TB3

	Indus Tech - Engineering	Engineering 1	TE1	
		Engineering 2	TE2	TE1
		Engineering 3	TE3	TE2
		Engineering 4	TE4	TE3
	Indus Tech - Electronics	Electronics 1	TL1	
		Electronics 2	TL2	TL1
		Electronics 3	TL3	TL2
		Electronics 4	TL4	TL3
	Indus Tech - Multimedia	Multimedia 1	TM1	
		Multimedia 2	TM2	TM1
		Multimedia 3	TM3	TM2
		Multimedia 4	TM4	TM3
	Indus Tech - Timber	General Wood 1	TW1	
		General Wood 2	TW2	TW1
		General Wood 3	TW3	TW2
		General Wood 4	TW4	TW3

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
Christian Studies		Available to Year 10 students only		

KLA	NESA Course	CTHS Subjects	Class Code	Prerequisite
Careers (Vocational Education)		Year 10 Compulsory Unit Timetabled with Religious Education which occurs for 1 period per fortnight		

COMPULSORY COURSES
Towards the award of the Record of School Achievement

The satisfactory completion of the following courses are prescribed by the NSW Education Standards Authority as being a prerequisite for the award of the *Record of School Achievement*:

- English
- Mathematics
- Science
- Australian History
- Australian Geography
- Personal development, health and physical education.

ENGLISH

All students study English in Years 9 and 10. English is taught in two one-year courses which emphasise skills development and which include important preparation for the HSC and practical applications of English. Satisfactory completion of the requirements of the English course is necessary if the student is to move into Year 11 English.

English uses an integrated approach to the development of skills. Speaking, Listening, Reading and Writing skills are developed through the study of literature and language, through the use of performance and investigation of the mass media and different technologies.

It is especially important for students in Year 9 to realise that their work is an important stepping stone for the transition in senior English that a year of committed work in Year 9 will prepare students well for the demands of Year 10. Several Elective courses are being offered to allow students to expand their experiences in English.

MATHEMATICS

The new Mathematics Syllabus provides a common understanding of the value and importance of mathematics for student learning. The aim is to enable students to become confident users of mathematics, learning and applying the language of mathematics to communicate efficiently and effectively.

The new NSW Mathematics K-10 syllabus for the Australian Curriculum will be delivered to both Year 9 and 10 in 2027. The Mathematics Syllabus for Years 9 and 10 bridges the gap between junior secondary and senior secondary courses of Mathematics. Students completing Year 8 are at various stages in the development of their mathematical knowledge, understanding and skills. Some students demonstrate a high degree of conceptual understanding while other students still need to develop their basic numerical skills. The K-10 Mathematics Syllabus caters for a wide range of learning needs by having two substages, Core and Paths. These substages are not designed as prescribed courses and many different ‘end points’ are possible.

Paths includes the knowledge and skills from Core. It is recognised that some year 9 and 10 students will still be working towards achieving the outcomes from the Stage 4 course. These students will be catered for and a section of the Core course is a consolidation of the Stage 4 outcomes. Students will be placed into classes working towards the Core and Paths outcomes according to their mathematical ability demonstrated in Year 8. Students need to achieve the outcomes in Core before moving onto the outcomes for Paths. Students may be working at different levels in the various focus areas: Number and Algebra, Measurement and Geometry, Statistics and Probability, as well as the overarching Working Mathematically outcome. For example, a student may be working towards achieving the Stage 4 Measurement outcomes but may be ready to work on the Core Number outcomes. Programming will be flexible to cater for the individual needs of students.

Mathematics Life Skills is another course offered to provide a relevant and meaningful program of study for a small percentage of students with special educational needs. This course caters for students who find the Mathematics Year 7-10 Syllabus outcomes and content not appropriate. The Mathematics Life Skills pathway continues through to Stage 6.

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Prior-to-school learning

Students bring to school a range of knowledge, understanding and skills developed in home and prior-to-school settings. The movement into Early Stage 1 should be seen as a continuum of learning and planned appropriately.

The *Early Years Learning Framework for Australia* describes a range of opportunities for students to develop a foundation for future success in learning.

MANDATORY STUDY

Early Stage 1 – Stage 3

Mathematics K–10

Mathematics 7–10

Working mathematically through communicating reasoning, understanding and fluency, and problem solving

	Stage 4/5 Core: broad outcome groups	Stage 5 Paths: broad outcome groups
Number and algebra	Number and finance	
	Algebra and equations	Further algebra and equations
	Ratios and rates	Variation and rates of change
	Linear and non-linear relationships	Functions and graphs
Measurement and space	Pythagoras and trigonometry	Further trigonometry
	Length, area and volume	Further area and volume
	Geometrical properties and figures	Geometrical figures and proof
		Introduction to networks
Statistics and probability	Data classification, visualisation and analysis	Data analysis and statistical enquiry
	Probability	Further probability

ELECTIVE STUDY

Stage 6

(Years 11–12)

Mathematics Life Skills	Year 11 Mathematics Standard		Year 11 Mathematics Advanced	Year 11 Mathematics Extension	
Mathematics Life Skills	Year 12 Mathematics Standard 1	Year 12 Mathematics Standard 2	Year 12 Mathematics Advanced	Year 12 Mathematics Extension 1	Year 12 Mathematics Extension 2

Community, other education and learning and workplace pathways

SCIENCE

Science, like English and Mathematics, is a compulsory course in Years 9 and 10. All students will be part of a core program taught outside the semester system (similar to Mathematics and English) where they have will have six lessons per fortnightly cycle over the two years. They will also complete one **compulsory** semester course that is core Science work that will be completed in Year 10. Students will be allocated this Science course within their elective lines in either the first or second semester.

The aim of the course is to:

- Develop students' curiosity about, and interest in, science and the natural world
- Increase students' knowledge and understanding of the nature and practice of science, and the Working scientifically processes
- Encourage students to generate and analyse data, evaluate results, and make ethical, evidence-based decisions, as informed, reflective and scientifically literate citizens.

Working scientifically
These Working scientifically processes are observing, questioning and predicting, planning and conducting investigations as well as processing and analysing data and information, problem solving and communicating. Students extend their understanding of the nature of science and how scientific ideas, explanations and concepts develop through the processes of scientific inquiry. They understand the unique interdisciplinary nature of science and the importance of scientific evidence in making informed decisions. The Working scientific processes are embedded in the outcomes and content.

Scientific Knowledge and Concepts
This is the essential content which encompasses eight **focus areas** in Stage 5. These are:

Energy
SC5-EGY-01 evaluates current and alternative energy use based on ethical and sustainability considerations.

Disease
SC5-DIS-01 explains how an understanding of the causes of disease can be used to prevent and manage the spread of disease.

Materials
SC5-MAT-01 assesses the uses of materials based on their physical and chemical properties.

Environmental sustainability
SC5-ENV-01 analyses the impact of human activity on the natural world.

Genetics and evolutionary change
SC5-GEV-01 describes the relationship between the diversity of living things and the theory of evolution.
SC5-GEV-02 explains how DNA is responsible for the transmission of heritable characteristics and can be manipulated through genetic technologies.

Reactions
SC5-RXN-01 describes a range of reaction types.
SC5-RXN-02 explains the factors that affect the rate of chemical reactions.

Waves and motion
SC5-WAM-01 describes the features and applications of different forms of waves.
SC5-WAM-02 explains the motion of objects using Newton's laws of motion.

Data science 2
SC5-DA2-01 assesses the use of scientific knowledge and data in evidence-based decisions and when verifying the legitimacy of claims.

Students are required to undertake at least one depth study in each year across Stage 5. A depth study is any type of scientific investigation that provides students with an opportunity to pursue their interests and deepen their scientific understanding of one or more focus area.

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HUMAN SOCIETY AND ITS ENVIRONMENT

All Year 9 and 10 students must complete the mandatory Geography and History courses. Additional courses may be selected if desired.

Geography

All Year 9 and 10 students must complete one of the Geography courses in each year. Year 9 Geography (mandatory) must be completed in Year 9 and Year 10 Geography (mandatory) must be completed in Year 10. Additional elective Geography courses may be selected if desired.

Code: 9GEO	**Year 9 Geography (mandatory)**	**Prerequisite:** Nil
In this course students complete two topics – Sustainable Biomes and Changing Places. In Sustainable Biomes, students investigate the distribution and physical characteristics of biomes, how humans alter biomes, how biomes are used to produce food, environmental challenges to food production for Australia and the capacity of the world's biomes to achieve sustainable food security. While in Changing Places, students investigate the causes and consequences of urbanisation, examine urban settlement patterns between Australia and another country, investigate reasons for and effects of internal migration in Australia and another country, investigate the reasons for and effects of international migration to Australia, and investigate the management and planning of Australia's urban future.		
Payment: Nil		**Contact Person**: Mr N Fernandez

Code: 10GEO	**Year 10 Geography (mandatory)**	**Prerequisite:** 9GEO
In this course students complete two topics – Environmental Change and Management, and Human Wellbeing. In Environmental Change and Management students investigate the role and importance of natural environments, investigate human-induced environmental changes across a range of scales, investigate environmental management and then conclude with a comparative study with at least ONE other country focusing on one environment. While in Human Wellbeing, students investigate ways of measuring and mapping human wellbeing and development, investigate causes, issues and consequences of spatial variations in human wellbeing, investigate the reasons for and consequences of spatial variations in human wellbeing in Australia, and investigate initiatives to improve human wellbeing in Australia and other countries.		
Payment: Nil		**Contact Person**: Mr N Fernandez

History

All Year 9 and 10 students must select one of the Australian History courses in each year. Year 9 History (mandatory) must be completed in Year 9 and Year 10 History (mandatory) must be completed in Year 10. Additional elective History courses may be selected if desired.

Code: 9HIS	**Year 9 History (mandatory)**	**Prerequisite:** Nil
Year 9 mandatory History course – Year 9 students follow the NSW Syllabus for the Australian Curriculum which investigates The Making of the Modern World, from 1750 to 1945, looking at how the world is transformed by ideas such as nationalism and imperialism and rapid change in the ways people lived, worked and thought. Students study the Industrial Revolution before a depth study of Australia at War in WWI and WWII. Students continue to develop their skills in source analysis, distinguishing different perspectives and research through a range of differing communication forms.		
Payment: Nil		**Contact Person**: Mr P Hartman

Code: 10HIS	**Year 10 History (mandatory)**	**Prerequisite:** Nil
Year 10 mandatory History course – The Modern World and Australia looks at the development of the modern world from the end of WWII to the present. The Twentieth Century became a critical period in Australia's social, cultural economic and political development. Of significance is the struggle for human rights, including how rights and freedoms have been ignored, demanded or achieved in Australia and abroad. Students also work on a depth study with their class, either on the Holocaust or the nature of popular culture in post-war Australia and its impact upon society.		
Payment: Nil		**Contact Person**: Mr P Hartman

PERSONAL DEVELOPMENT, HEALTH AND PHYSICAL EDUCATION

All Year 9 and 10 students will study Personal Development, Health and Physical Education (PDHPE) for four periods per fortnight. Two of these periods are practical and the other two are theory classes.

The Theory Component consists of the following units:

Year 9

- Remember the Titans (Supporting yourself, supporting others, leadership)
- Nutrition (Healthy food habits, health consumerism)
- Illicit Drugs (Cocaine, heroin, ecstasy, steroids)
- Alcohol (Drug use and abuse – Alcohol)
- Contraception (Contraception, sexual health, STDs)
- Fitness (Fitness testing, program design)

Year 10

- A Beautiful Mind (Mental Health, Resiliency)
- Drinking, Driving, Surviving (Road safety, risk taking behaviours)
- Bullying and Harassment (Relationships)
- The Final Quarter (Discrimination)
- Headstrong (Mental health)

The Practical component will involve a variety of sports and activities including dance, football, netball, golf, mini tennis, weight training, softball, etc.

Students will also be involved for two periods each week in a sports program, which will include Grade competition against other schools, and/or participation in a range of non-competitive (intra school) sports. Sport attracts the usual costs to cover bus hire and entrance payment to some venues.

As well as the mandatory periods of PDHPE each fortnight and Sport, students have the opportunity to complete elective Semester units either as ‘interest’ units or as a pattern of two or more units which will then be listed as Physical Activity and Sports Studies (either 100 or 200 hours). See the electives section of this book for more details.

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NESA DEVELOPED COURSES
ELECTIVE COURSES

CREATIVE AND PERFORMING ARTS

The Creative Arts and Performing Arts KLA comprises these subjects:

- Dance
- Drama
- Music
- Visual Arts
- Photography

Students undertaking any of the five subjects offered by the Creative and Performing Arts KLA as a 200-hour course will be required to complete *four units of study in that Subject over Years 9 and 10.* Two consecutive units of study in any of the five subjects will be counted as a 100-hour course. These subjects can be completed by undertaking Semester Units in accordance with the outlines in this booklet.

Level of Attainment: The level of attainment achieved by each student in all Creative and Performing Arts subject areas will be based on the guidelines as set out in individual syllabi and determined through the progressive development of the student over the duration of the course.

A number of the units which are listed in the following section of this booklet can be attempted by students as 'ONE-OFF' units.

In **Visual Arts** there is also a **GATS Intensive Studio Practice** course for high potential gifted students. This is a 100-hour, Year 10 course that encompasses advanced studio practice. Selected students will be offered an opportunity to submit a written application and portfolio of work samples. Themed units of work allow these students to express themselves effectively using elements of visual language through intensive experimentation in a variety of media and methods.

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Dance

Dance is offered in Stage 5 for students who are interested in dance and choreography while exploring a full range of body movement.
Performance is an integral part of this subject, and students will be given the opportunity to perform at school assemblies, dance festivals and school concerts. The curriculum has a strong contemporary style as it's foundation with units of study also in the styles of Jazz, Musical theatre and lyrical.

Emphasis is placed on student participation in this subject, as students will be required to make a commitment to working in groups and in ensemble work.

Unit Descriptions

Code: CAA	**Dance Performance**	**Prerequisite:** Nil
Students will be introduced to the elements of Dance. They will develop skills and appreciation in composition and performance, which will be applied to Dance. Students will investigate the opportunities dance provides for communication and expression when performing. Emphasis will be placed on performance and composition. Students may have the opportunity to see a professional dance performance.		
Payment: $35		**Contact Person:** Ms L Holt

Code: CAB	**Jazz and Musical Theatre**	**Prerequisite:** Nil
Students will master a range of movement skills relating to jazz dance technique. They may have the opportunity to attend Musical Theatre performances. Students will undergo the study of the history of Musical Theatre. Students will be required to perform in a dance item in the annual Creative Arts performance.		
Payment: $35		**Contact Person:** Ms L Holt

Code: CAC	**Contemporary and Lyrical**	**Prerequisite:** Nil
Students will master skills in dance technique in the genres of Lyrical and Contemporary dance. Students will develop their knowledge and application of the human dancing body and safe dance practice through the study of Contemporary dance.		
Payment: $35		**Contact Person:** Ms L Holt

Code: CAD	**Composition and Choreography**	**Prerequisite:** Nil
Students will master a range of movement skills in relation to Contemporary dance. They will focus and develop skills in composition and choreography. Students will work to devise a piece for public performance. Students will participate in the in-depth study of a choreographer.		
Payment: $35		**Contact Person:** Ms L Holt

Dance HSC Accelerated

Students will be offered the opportunity to apply for selection into the Accelerated HSC Dance course. Selection will be through a written application to be submitted to Ms Holt and reviewed by the selection panel. This program provides a unique opportunity for students to complete two units of their HSC by the end of Year 11, with the Preliminary course commencing in Year 10 and the HSC course completed in Year 11.

Commencing Stage 6 Dance in Year 10 supports the development of key practical competencies, particularly in Performance and Composition. Early engagement allows students to progressively build kinaesthetic awareness, strength, endurance and control, which are beneficial for the safe and effective execution of complex movement. This timeframe also supports the refinement of technique, performance quality and expressive capacity in alignment with syllabus outcomes.

Dance, as a Stage 6 subject, develops students' ability to perform, compose and appreciate dance through critical and creative thinking. It fosters the development of complex skills including collaboration, problem-solving, self-discipline and reflective practice. Students gain knowledge, confidence and capability that support both academic success and future pathways, with transferable skills applicable across a wide range of careers.

Unit Descriptions

Year 11 (Preliminary) 120 indicative hours across 3 focus areas – Completed in Year 10
The Dance Syllabus is structured around the key Dance practices of performance, choreography and appreciation, which form the focus areas. In the Year 11 course, the emphasis is on the discrete and explicit study of the focus areas. Students explain and demonstrate alignment, control, strength, flexibility, endurance and coordination relative to personal anatomical structure.
Payment: $55

Year 12 (HSC) 120 indicative hours across 3 focus areas – Completed in Year 11
In the HSC course, students synthesise their knowledge, understanding and skills both in and across the focus areas. Students study dance as an artform in which the body is the instrument of nonverbal communication and expression. Students develop their theoretical and practical knowledge of dance through the making and performing of the movement and the appreciation of its meaning.
Payment: $55

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Drama

In studying Drama, students will develop knowledge and understanding about Drama and theatre and skills in making, performing in and evaluating a variety of dramatic forms and styles.

Objectives - Students will:

- Explore a range of imagined and created situations in a collaborative environment
- Use dramatic forms and conventions to engage an audience
- Appreciate the function and effect of drama and theatre and reflect on their personal drama experiences.

Students who elect to study Drama units must be aware that they will be required to participate fully in all performance aspects of the unit, some of which may be undertaken in out of school hours.

Unit Descriptions

Code: CDA	**Theatre's Evolution**	**Prerequisite:** Nil
This course takes you on a wild ride through theatre history, from Greek vibes to Commedia Dell 'Arte, Melodrama, Shakespeare, and all the way to Realism and even online theatre. You'll pick up all kinds of performance tricks, like direct address, symbolism, expressionism, and the supernatural, mixing them with classic realism to see how theatre has evolved. It's all about experimenting with different styles and flipping the script on what you know, blending the old with the new in ways that make the stage your own.		
Payment: $35		**Contact Person**: Mr J Lawrence

Code: CDB	**Jump, Flip, Act; Physical Theatre 101**	**Prerequisite:** Nil
This course takes your improv skills to the next level, sharpening the key techniques that make spontaneous performance stand out. You'll work collaboratively, creating and presenting ideas through physical theatre, mask work, puppetry, musical theatre, and even acrobatics. It's all about building characters with intention, using voice and movement to bring them to life. You'll also dive into structuring devised works, learning through trial and error to create original theatre that hits. By acting, directing, and writing, you'll answer the key questions: Why am I telling this story? What does it mean to me? How am I going to create it? The goal is to gain the confidence to create bold, powerful work that's uniquely yours.		
Payment: $35		**Contact Person**: Mr J Lawrence

Code: CDC	**From Selfie to Screen; Acting for TV/Film**	**Prerequisite:** Nil
This course is all about breaking down scripts the way you need to for TikTok skits, dramas, and Hollywood auditions. You'll get the tools to decode any script, finding the key moments that make a character stand out, from subtext to super-objectives. Whether you're preparing for a TV drama audition, Netflix role, or stepping into the world of agents and casting calls, this course will teach you how to interpret a script like a pro. Learn how to present your character in ways that grab attention, whether you're in front of a camera or on stage. We'll cover everything from old-school period dramas to the latest film and TV trends, giving you the confidence to nail every audition and take your acting to the next level.		
Payment: $35		**Contact Person**: Ms L Holt

Code: CDD	**Production and Performance Industry**	**Prerequisite:** Nil
In this course, you'll dive into the real-world skills needed to create and perform your own theatre show. You'll explore improvisation and play building; key methods that mirror the industry process by collaborating with peers to develop characters, themes, and original works. Whether it's acting on stage or stepping into a production role, you'll gain hands-on experience in bringing ideas to life. Through unscripted activities, you'll build your ability to think quickly and adapt to different situations, just like you would in an actual rehearsal room. By working with different narrative structures and theatrical styles, you'll not only become a confident storyteller but also an empowered creator, ready to make your mark in the theatre industry.		
Payment: $35		**Contact Person**: Ms L Holt

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Music

The aim of Elective Music is to enable students to respond with aural awareness and sensitivity, through a wide range of musical activities, developing competency as performers and creators of music. These courses can be completed in Year 9 or 10.

Each unit will integrate activities in performance, listening and composition, with assessments weighted evenly. In all courses, students will be encouraged to perform in a school instrumental group, as well as being expected to participate in all classroom performance activities, to enhance their understanding of ensemble performing.

Code: CMA	**Foundational Compositional Techniques**	**Prerequisite:** A passion to sing or learn an instrument
In song writing and composition, students learn to acquire skills in both classical and modern music composition, arrangements and instrumentation. Students will investigate the various genres such as concert, media and film or staged productions. Students will learn different approaches to compositional structure and form and complete a portfolio of original work demonstrating knowledge of fundamentals.		
Payment: $40		**Contact Person:** Mr A Felton

Code: CMB	**Jazz and Cultures**	**Prerequisite:** A passion to sing or learn an instrument
Prerequisite: A passion to sing or learn an instrument. Students will develop skills and an understanding in jazz and improvisation and an appropriate level of instrumental skill to facilitate its performance. Students will be acquainted with suitable and essential jazz repertoire and its world context and learn how to use basic Music rules and chord progressions.		
Payment: $40		**Contact Person:** Mr D Sirone

Code: CMC	**Recording Industry Skills**	**Prerequisite:** Nil
This is a semester course that takes students through the process of writing, rehearsing and recording a song. Students will learn how to write a song and arrange it for various instruments and/or voices. They will rehearse a group to achieve their desired sound and then learn basic recording methods using the latest digital studio techniques. By the end of this course, each student will have produced a high-quality recording of an original song. The level of skill in performance is expected to vary from student to student.		
Payment: $40		**Contact Person:** Mr D Sirone

Code: CMD	**Let's Rock!**	**Prerequisite:** A passion to sing or learn an instrument
Grab your guitar, pick up your drumsticks, and let's get ready to ROCK! This course delves into the world of Rock, exploring its early development through to modern times. Knowing how to play an instrument is not compulsory but is advisable as this course focusses more on performance techniques and developing small ensemble skills. Students will form bands to learn how to perform in the Rock genre. This course can be used to further your musical studies of the Stage 4 Mandatory course.		
Payment: $40		**Contact Person:** Ms A Lai

Visual Arts

Visual Arts is a course that is offered for all students who wish to communicate their ideas visually through a wide variety of media. Each elective unit offered within Visual Arts has practical and theoretical components and students are encouraged to experiment and refine their skills in the various media to produce a body of work which reflects development of their conceptual and practical abilities.

Visual Arts - Painting

Code: CVC	**Masters of Painting**	**Prerequisite:** Nil
Focusing on the qualities of paint and a variety of techniques, students will create both stretched canvas and paper artworks. Identity through objects and spaces will be the source of inspiration in the development of skills and techniques with paint. Numerous influencing master's through the history of art will be studied and appropriated, focusing on the relationship of the artist with their artwork, audience and world.		
Student Payment: $50		**Contact Person:** Ms K Jaeger

Code: CVD	**Contemporary Expressive Painting**	**Prerequisite:** Nil
This course will explore a variety of contemporary painting practices and media. Students will make and study artworks that experiment with new techniques and a variety of materials to produce expressive paintings. Modern and Post-Modern artist practice will influence the study with a focus on symbolic, semi-abstract and expressive concepts.		
Student Payment: $50		**Contact Person:** Ms K Jaeger

Visual Arts - Ceramics

Code: CVE	**Ceramics - Hand Building and Decorative Techniques**	**Prerequisite:** Nil
Students will explore hand building techniques with clay including using coil, slab, carving and modelling. They will also explore various methods of surface decoration including coloured slips under glazes and glazes and will learn about the properties of clay. Students will study works from a range of ceramic artists. Exploration of ceramics from a variety of perspectives in relation to artist, artwork, audience and the art world will be made.		
Student Payment: $50		**Contact Person:** Mrs B Tuynman

Code: CVF	**Ceramics - Form and Function**	**Prerequisite:** Nil
This unit is designed to introduce the students to new methods of construction. Students will explore decorative techniques and ceramics as a medium for sculptural expression and functional use. Further study of ceramic artists will be undertaken with an emphasis on Contemporary ceramic artists and issues.		
Student Payment: $50		**Contact Person:** Mrs B Tuynman

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Visual Arts - Sculpture

Code: CVM	**Sculpture**	**Prerequisite:** Nil
Students will experience a variety of sculptural techniques using a range of materials. They will undertake the study of sculptors and sculptures from traditional and contemporary viewpoints, to inform their own art making practice.		
Student Payment: $50		**Contact Person:** Mrs B Tuynman

Visual Arts - Digital Imaging

Code: CVH	**Digital Imaging**	**Prerequisite:** Nil
This unit will introduce students to the world of image manipulation and digital drawing. Using Adobe Photoshop, Illustrator and Wacom tablets, students will develop industry standard skills in creating and editing digital artwork. They will also explore laser cutting and 3D rendering, bringing their designs to life in both digital and physical forms. By the end of the course, students will have a professional digital portfolio, preparing them for further study and industry pathways in creative and design-based fields.		
Student Payment: $50		**Contact Person:** Mrs Z Stace

Code: CVI	**AI in Art**	**Prerequisite:** Nil
This unit of work explores how artificial intelligence is transforming contemporary art practice. Students will investigate the evolving relationship between artists and emerging technologies, using AI tools to generate and manipulate visual imagery. From surreal digital portraits to generative landscapes, students will explore how artists today are using AI to challenge ideas about creativity, originality and authorship.		
Student Payment: $50		**Contact Person:** Mrs Z Stace

Code: CVJ	**Movie Making**	**Prerequisite:** Nil
Students will be making a series of short films using compilations of still images, animation software, digital and drone footage. They are required to study film making and to explore a variety of film genres. Students will examine techniques used by film makers and critique many films. Film editing techniques will be learnt to assemble finished film footage. Students will work out of the multimedia lab. Emphasis will be placed on the role of film and video as an art form and the enormous variety of specialist career opportunities available in this industry.		
Student Payment: $50		**Contact Person:** Mrs Z Stace

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Visual Arts - Drawing and Illustration

Code: CVA	**Drawing and Illustration**	**Prerequisite:** Nil
This course will explore traditional drawing in using a range of materials and techniques. Students will use an assortment of approaches in the realistic depiction of form and will apply various techniques to produce drawings. The studying component will examine the works of artists who use a diverse selection of drawing materials and procedures. They will explore the practice of an artist, as well as analyse and interpret art from a mixture of perspectives.		
Student Payment: $50		**Contact Person:** Ms K Jaeger

Code: CVB	**Contemporary Drawing**	**Prerequisite:** Nil
This elective will explore expressive materials and techniques used in contemporary drawing. Students will create a series of artworks using charcoal, oil pastels and chalk pastels to develop and understating of composition, lighting and form. In the studying component of the course, students will study in detail the practice of artists and explore the relationship between the artwork-artist-world and audience.		
Student Payment: $50		**Contact Person**: Ms K Jaeger

Visual Arts - Printmaking

Code: CVK	**Printmaking**	**Prerequisite: NIL**
Students will explore printmaking and its potential for making artworks. A number of print techniques will be explored including relief printing lino, intaglio and mono printing. Students will learn about the history of printmaking and make links to its influence on contemporary practice. They will utilise a number of printmaking techniques to produce a series of artworks.		
Student Payment: $50		**Contact Person:** Ms K Jaeger

Visual Arts - GATS

GATS Intensive Studio Practice incorporates intensive experimentation with a large range of materials and methods. Themed units of work will allow these gifted students to express themselves effectively using elements of visual language. Literacy concepts and scaffolds will assist with modelled critical responses to artworks.

This is a 100-hour elective, Year 10 course that encompasses advanced studio practice. Students will be offered an opportunity to submit a written application and portfolio of work samples to apply for this course.

Code: CVG1	**GATS - Intensive Studio Practice 1**	**Prerequisite:** Nil
Life Drawing and Sculptural Forms - In this unit of work students will learn the skills of life drawing in a variety of media. The course focuses on promoting students in their area of strength and choice of materials, to produce a series of artworks in both 2D and 3D media. They will develop a series of artworks which will be documented in an environment installation.		
Student Payment: $50		**Contact Person:** Ms K Jaeger

Code: CVG2	**GATS - Intensive Studio Practice 2**	**Prerequisite:** Nil
Personal Interest Project (PIP). This unit of works allows students to select from 12 expressive media forms or a combination of media areas, e.g. painting, sculpture, film, photography, etc. They will develop a series of artworks which they will resolve, present and curate into a gallery exhibition.		
Student Payment: $50		**Contact Person:** Ms K Jaeger

Visual Arts - Photography

Code: CPA	**Photography - The Wet Darkroom**	**Prerequisite:** Nil
The aim of this unit is to introduce students to creative and technical aspects of black and white photography. It is advised that only students who can manage their time effectively and are self-directed learners will be successful in this course. The students will work in the darkroom and classroom, learn to operate a 35mm camera and to take effective photographs. They will also learn basic darkroom techniques i.e. to develop their own film and print photographs. A unit of theoretical study will be undertaken examining technical aspects of photography and research the work of photographic artists. Students will explore a variety of image making techniques using photosensitive materials. While students will be able to use school cameras in class, no overnight borrowing will occur.		
Student Payment: $70		**Contact Person:** Mr S Duggan

Code: CPB	**Digital Photography**	**Prerequisite:** Nil
This course will expand on basic photography skills through the exploration of experimental techniques to manipulate images. Students will have the opportunity to gain skills in digital imagery and associated software. This course intends to explore photography and digital images in both theoretical and practical studies. Students will be required to undertake detailed documentation of their art making in an online portfolio, as well as completing in depth studies of artists who use photography, electronic media and digital manipulation to make art. Exploration of photography from a variety of perspectives in relation to artist, artwork, audience and the art world. It is essential student's laptop has Photshop installed.		
Student Payment: $70		**Contact Person:** Mr S Duggen

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HUMAN SOCIETY AND ITS ENVIRONMENT

There are no prerequisites for the study of any course. Students may choose additional Semester Study Units offered in **any HSIE Subject.**

To facilitate access to resources teachers have produced workbooks for several HSIE courses. These are purchased by students for a small payment.

Commerce

Students may select any number of Commerce Units over Years 9 and 10 as interest electives. To complete a Commerce course over Years 9 and 10 you are required to complete the following:

100 HOURS: Students **must** complete **either:**

1. Smart Spending and Earning (core 1) **OR** Markets and the Legal System (core 2)
   plus
2. One optional unit (or another core unit)

   These two units may be done in any order at any time over Years 9 and 10. However, 9HCB Markets and the Legal System is more suited to Year 10 students and, if chosen, should be undertaken in that year.

200 HOURS: Students **must** complete **three** core units

1. Smart Spending and Earning **and**
   Markets and the Legal System **and**
   Economic Structures and Decisions
   plus
2. One optional unit

Unit Descriptions

Code: HCA	**Core 1: Smart Spending and Earning**	**Prerequisite:** Nil
In this course students complete two topics - Consumer and Financial Decisions and Employment and Work Futures. In Consumer and Financial Decisions, students study the nature of commerce, consumer and financial decisions, consumer protection, financial management and current issues. While in Employment and Work Futures, students examine work and wellbeing, the workplace, rights and responsibilities in the workplace, and current issues. This course is compulsory for students studying the 200-hour elective. If students are undertaking the 100-hour elective, they must either study this course or HCB - Core 2: Markets and the Legal System.		
Payment: Nil		**Contact Person**: Mr N Fernandez

Code: HCB	**Core 2: Markets and the Legal System**	**Prerequisite:** Nil
In this course students complete two topics - The Economic and Business Environment and Law, Society and Political Involvement. In The Economics and Business Environment, students learn about the nature of the economy, the nature of markets within the economy, interactions within markets and current issues. While in Law, Society and Political Involvement, students examine the role and structure of the legal system, law reform, political action and decision making, participation in the democratic process, and current issues. This course is compulsory for students studying the 200-hour elective. If students are undertaking the 100-hour elective, they must either study this course or HCA - Core 1: Smart Spending and Earning. This course is more suited for students in Year 10.		
Payment: Nil		**Contact Person**: Mr N Fernandez

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Code: HCC	**Core 3: Economic Structures and Decision making**	**Prerequisite:** Nil
This is a challenging commerce course designed to introduce students to key economic concepts. It is comprised of the new core unit The Economic Environment and the elective unit Our Economy. In The Economic environment, students learn about key concepts such as markets demand and supply whereas in Our Economy students begin to acquire the tools required to engage in contemporary debates around economic policy. Students examine the indicators to measure the performance of the Australian economy, investigate Australia's major trading partners, discuss the global influences on the Australian economy and analyse current issues. This course is compulsory for students studying the 200-hour elective but it can also be undertaken by students in the 100 elective.		
Payment: Nil		**Contact Person**: Mr N Fernandez

Code: HCD	**Option 1: Running a Business**	**Prerequisite:** Nil
In this course students complete two topics - Promoting and Selling and Running a Business. In Promoting and Selling, students learn about the selling process, targeting consumers, selling techniques and current issues. While in Running a Business, students examine what an entrepreneur is, planning for success, business operations, maintaining financial records and current issues.		
Payment: Nil		**Contact Person**: Mr N Fernandez

Code: HCE	**Option 2: Law in Action**	**Prerequisite:** Nil
In this course students complete two topics - Law in Action and International Law in Action (School Developed Option). In Law in Action, students learn about contact with the law, rights and responsibilities of individuals, resolving disputes and current issues. While in International Law in Action, students will examine the role of the United Nations (UN), structure and organs of the UN, other intergovernmental organisations with global influence (e.g. G20, WTO, ASEAN, NATO, etc), human rights, and other global issues.		
Payment: Nil		**Contact Person**: Mr N Fernandez

Code: HCF	**Option 3: Investing and Independent Decision making**	**Prerequisite:** Nil
In this course students complete two topics and Towards Independence. In Investing, students learn about the reasons for investing, investment options, investment planning, the financial services industry and current issues. In Towards Independence, students discuss considerations when moving from home, evaluate accommodation options investigating consumer support mechanisms including those seeking shelter including renters, explain the responsible management of finance, major purchases, the importance of community involvement and current issues.		
Payment: Nil		**Contact Person**: Mr N Fernandez

Elective Geography

The following units are interest electives in Geography that can be undertaken in addition to the compulsory Stage 5 Geography courses (9GEOA and 10GEOB). They are ideal for students who enjoy Geography. These units can be undertaken at any time during Years 9 and 10.

Code: HGA	**Disasters**	**Prerequisite:** Nil
Have you ever been in an earthquake, volcano eruption, hurricane, nuclear accident or terrorist attack? In this unit we examine these natural and man-made phenomena, how they occur, why they occur, how people respond and the impact they have on people's lives. Look at some of the world's most famous disasters including, Chernobyl; the Japan Tsunami in Fukushima; Mt Vesuvius; the Australian Bushfires; terror attacks; the atomic bombs; and many more.		
Payment: Nil		**Contact Person**: Mr N Fernandez

Code: HGB	**Global Issues**	**Prerequisite:** Nil
This unit examines significant geographical issues affecting our world. There is an emphasis placed on the issues of the 21st century where we investigate a future without oil, a future without jobs in an automated world, the consequences of the overpopulation, as well as Human Rights. Students will also get the opportunity to develop their own inquiry questions that examine global issues of their choosing from around the world.		
Payment: Nil		**Contact Person**: Mr N Fernandez

Elective History

The following units are interest electives in History that can be undertaken in addition to the compulsory Stage 5 History courses (9HIS and 10HIS). They are ideal for students who enjoy History. These units can be undertaken at any time during Years 9 and 10.

Making History is a 100-hour course. You must select Making History 1 and Making History 2.

Code: HHM1	**Making History - Medieval 1**	**Prerequisite:** Nil
The first part of a 100-hour course, Making History 1 is a hands on, project-based course that integrates skills and knowledge from across subject areas to recreate the medieval world. Think STEM with an historic theme. In this first semester, students look at the technologies and material culture of the peasantry and craftsmen as well as the medieval church. They will plan a medieval banquet and create all the components required, from food and clothing to board games and entertainment. In Making History 1, students will learn about historic book binding and leatherwork, textiles and food, as well as the creative and performing arts. This is a hands-on subject suitable for anyone interested in learning about the medieval world in a fun and engaging way, and willing to step out of their comfort zone and learn new skills.		
Payment: $70		**Contact Person**: Mr P Hartman

Code: HHM2	**Making History - Medieval 2**	**Prerequisite:** HHM1
The second part of a 100-hour course, Making History 2 is a hands on, project-based course that continues the learning of knowledge and skills from Making History 1. In this course, students will work towards the planning and execution of a medieval fair and tournament at the end of the semester. The focus is on the nobility and men-at-arms of the medieval world, and students will create shields and helmets, and learn about archery and sword-fighting in a safe and supervised environment. This is a hands-on subject suitable for anyone interested in learning about the medieval world in a fun and engaging way, and willing to step out of their comfort zone and learn new skills.		
Payment: $70		**Contact Person**: Mr P Hartman

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Code: HHA	**Archaeology: Digging up the Past**	**Prerequisite:** Nil
Do you prefer reading about History, or would you like to get your hands dirty by Digging up the Past? This unit explores the discipline of archaeology, where History and Science meet. We will investigate ancient sites, long forgotten tombs and buried treasures. A perfect subject for those who like hands on learning and are interested in Prehistory and Ancient History.		
Payment: Nil		**Contact Person**: Mr P Hartman

Code: HHB	**Life in the Classical World**	**Prerequisite:** Nil
This course will help you discover what it was like living in Ancient Greece and Rome. Explore the world of the Greek gods and find out how you might call on their luck and protection. Discover what life was like for a Greek woman or a Roman slave. Make a visit to the Greek theatre or spend an afternoon watching gladiatorial games at the Colosseum in Rome. Meet a Greek philosopher like Socrates or a Roman General like Caesar. Find out about the dress, customs, food, entertainment (and much more) of the Mediterranean world from the Golden Age of Athens (500BCE) until the decline of Rome (400CE). A must for those interested in Ancient History!		
Payment: Nil		**Contact Person**: Mr P Hartman

Code: HHC	**Technology of Warfare**	**Prerequisite:** Nil
Ever wondered why our wars have become more devastating over the centuries? Because of technology. This unit will examine warfare over time and how technology has influenced the type of, and reasons for, warfare. Wars from ancient and medieval times through to the 20th Century and contemporary times will all be examined in relation to the tools and tactics of warfare.		
Payment: Nil		**Contact Person**: Mr P Hartman

Code: HHD	**History's Mysteries**	**Prerequisite:** Nil
An examination of the Unknown, Unanswerable or Simply Bizarre!! This course has no defined form and is thus a mystery in itself. However, what we can guarantee is a semester of History like no other. You could be taken in search of the real Dracula or the mysteries of the Maya. You could try to unravel the many questions surrounding Stonehenge or ponder the last days of the Iceman. Sift through the evidence surrounding the murder of the Romanovs or follow in the footsteps of Jack the Ripper. Go in search of Lassiter's Reef or retrial Lindy Chamberlain. Suitable for all students who enjoy drama, intrigue and problem solving.		
Payment: Nil		**Contact Person**: Mr P Hartman

Code: HHE	**History on Screen**	**Prerequisite:** Nil
Do you love watching movies and playing computer games? Nowadays, most people learn about the past through films, TV shows and games, so in this unit we explore how valuable these media are in the study of History. We will undertake film studies, such as Troy, Gladiator or A Knight's Tale, look at the role of Propaganda films in Nazi Germany and North Korea, and explore how History is portrayed in computer games such as Battlefield, Civilisation, Assassins Creed and more. A great course for film buffs and gamers alike!		
Payment: Nil		**Contact Person**: Mr P Hartman

Code: HHF	**Forgotten Histories**	**Prerequisite:** Nil
Ever wondered why History seems to be so full of dead, white men? Not anymore! In this course you'll learn about overlooked explorers, dismissed discoverers and forgotten influencers on major historical events. We reconsider who we normally think of as our heroes and the places we think matter. This is perfect for students who want to think about things from a different perspective and will give you an opportunity to undertake in project-based learning, designed to equip you with skills you need for the senior school.		
Payment: Nil		**Contact Person**: Mr P Hartman

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Aboriginal Studies

Code: ABS	**Aboriginal Studies (Year 11 HSC course completed in Year 10)**	**Prerequisite:** Nil
Year 10 students ONLY. More information and details about the application process to be provided later this term.		
Payment: Nil		**Contact Person**: Mr P Hartman

LANGUAGES OTHER THAN ENGLISH

General KLA Information
Learning another language is an ideal way of developing skills and knowledge that are useful in a global society and multicultural Australia. Knowledge of a second language also contributes to a student's understanding of their first language. LOTE courses build on the listening, speaking, reading and writing skills developed in Year 8. Students can expect to achieve greater levels of communication skill in their chosen language whilst enhancing their cultural understanding.

Students participate in email and collaborative projects with CTHS partner-schools in China, France and Japan. Opportunities for exchange are available for interested Year 10 students.

Prerequisites
100 hours of study of the selected language (approx. one school year) is required for entry to Level 3 courses. 100 hours is usually completed in Year 8 language courses. Students without this background of study should consult the Head Teacher.

Progression
Most students of LOTE begin with a Level 3 course (in Year 9) and proceed to Level 6 in Year 10. Variations are possible and should be discussed with the Head Teacher.

It is important to note that these courses are part of a four-year continuum leading to the HSC, and that students must have completed two years of the language in Stage 5 to be eligible to study the language in Years 11 and 12. Students intending to study a Year 10 Language course must complete 100 hours (L3 and 4) of Language courses or equivalent proficiency.

Students who wish to take up a new language course for their HSC, can choose a beginner's course. Beginner's courses are for students who have had no more than 100 hours (Stage 4) study of the language at the secondary level or equivalent. CTHS offers Chinese, Japanese and French Beginners courses.

Language Class Codes (recommended progression)

Language	**Year 9**		**Year 10**	
	Semester 1	***Semester 2***	***Semester 1***	***Semester 2***
French	LF3	LF4	LF5	LF6
Japanese	LJ3	LJ4	LJ5	LJ6
Chinese	LC3	LC4	LC5	LC6

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French

Unit Descriptions

Code: LF3	French Level 3	Prerequisite: Year 8 (100 hrs) or equivalent
Topics: Ordering food in a restaurant; festivals and celebrations; arranging to meet; daily routines; teenagers; hobbies and activities. *Skills:* • Giving an opinion; expressing preferences • Describing occasions and daily routines • Describing appearances and personality • Talking about leisure activities • Asking questions • Making notes • Agree/give excuses; reply formally • Writing a script • Using a French/English dictionary.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

Code: LF4	French Level 4	Prerequisite: LF3 or equivalent
Topics: Clothing and fashion; shopping; directions; transport; holidays. *Skills:* • Using expressions for shopping • Using expressions of time and place • Describing different forms of transport • Describing locations and facilities around a town • Describing the weather • Using email / letter writing appropriately - formal/informal • Self-description • Talking about the future.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

Code: LF5	French Level 5	Prerequisite: LF4 or equivalent
Topics: Around the home; different types of accommodation; earning money; recounting past events. *Skills:* • Describing one's home • Describing household tasks • Describing ways in which teenagers may earn money • Narrating past events.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

Code: LF6	French Level 6	Prerequisite: LF5 or equivalent
Topics: Health and physical activities; environment; relationships with others; future plans. *Skills:* • Talking about sports and staying healthy • Describing injuries and visiting the doctor • Comparing things in the past with the present • Talking about the environment • Planning future events.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

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Japanese

Unit Description

Code: LJ3	**Japanese Level 3**	**Prerequisite:** Year 8 (100 hrs) or equivalent
Topics: Millestones (Growing up), Language studies, Nationalities. Fast food in Japan and Australia, Shopping (Department stores in Japan), Katakana scripts. *Skills:* • Have a conversation about past events • Discuss your nationality, birthplace and where you grew up • Ask and say how old you were when starting an activity • Discuss your favourite fast foods and talk about healthy food options • Discuss where you shop and why you shop there • Katakana scripts.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

Code: LJ4	**Japanese Level 4**	**Prerequisite:** LJ3 or equivalent
Topics: Leisure activities, Theme parks, city and country, Neighbourhood, Directions, Katakana scripts. *Skills:* • Talk about what someone is doing now • Arranging an outing • Accepting and declining invitations • Describe neighbourhood • Discuss life in the city and life in the country.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

Code: LJ5	**Japanese Level 5**	**Prerequisite:** LJ4 or equivalent
Topics: Trips, Travel time and transport, Part-time work, Spending money, Careers and aspirations, What you are good at and like to do. *Skills:* • Talking about how long one takes to travel from one place to another • Talk about activities one did during a school trip • Discuss what is allowed and one isn't allowed • Talk about part time jobs and required skills • Talk about how you spend your money.		
Payment: Student Workbooks $20 per year		**Contact Person:** Mrs M Arkins

Code: LJ6	**Japanese Level 6**	**Prerequisite:** LJ5 or equivalent
Topics: Seeing your home through Japanese eyes, Cultural similarities and differences. Leisure and Holidays iitomo senior u1, Schools u3 iitomo senior, Student life (study, hobby and part time jobs) iitomo senior u4. *Skills:* • Talk about one's favourite past times • Research leisure activities for high school students both in Japan and Australia • Talk about timetable, subjects, rules • Describe school • Describe student life, explain how you stay healthy, discuss what you do to achieve a good study life balance • Talk about part-time work • Benefits of living a balanced life.		
Payment: Student Workbooks $20 per year		**Contact Person:** Mrs M Arkins

Chinese

Unit Description

Code: LC3	**Chinese Level 3**	**Prerequisite:** Year 8 (100 hrs) or equivalent
Topics: Telling the time, location, shopping, clothing. *Skills:* • Telling the date and time • Talking about leisure activities • Daily routine • Locating people and items • Giving and accepting invitations • Colours and clothing • Shopping and asking the price • Describing people's appearance.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

Code: LC4	**Chinese Level 4**	**Prerequisite:** LC3 or equivalent
Topics: Countries, nationalities, languages, weather, clothing, daily routine, food, phone calls, weather description. *Skills:* • Ordering food • Making phone calls • Weather • Describing people.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

Code: LC5	**Chinese Level 5**	**Prerequisite:** LC4 or equivalent
Topic: Studies, School life, Neighbourhood, Leisure life *Skills:* • Talking about the subjects in school • Talking about the school life • Talking about how long one takes to travel from one place to another • Describe leisure life.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

Code: LC6	**Chinese Level 6**	**Prerequisite:** LC5 or equivalent
Topics: Describing people, Traveling, Health, Brithday party *Skills:* • Describe personal characteristics • Talking about holiday plans • Taking sick leave • Invitation.		
Payment: Student Workbooks $40-$45 per year		**Contact Person:** Mrs M Arkins

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PERSONAL DEVELOPMENT, HEALTH AND PHYSICAL EDUCATION

As well as the mandatory periods of PDHPE each fortnight and Sport, students have the opportunity to complete elective Semester units either as 'interest' units or as a pattern of 2 or more units which will then be listed as **Physical Activity and Sports Studies** (either 100 or 200 hours).

The units are designed for those students with an interest in Sport, Human Anatomy and Physiology. Students planning careers in medicine, physiotherapy, nursing, sports training and coaching would receive great benefit from undertaking these courses.

There are no pre-requisites for any of the units, and they may be studied in any order.

Please note: Due to the physical requirements of PDHPE Mandatory and Elective units and to reduce injuries, students will be limited to completing **no more than 50 hours (1 PDHPE elective class) per semester.** Exceptions to this rule will be determined by the Head Teacher PDHPE on application and a case-by-case basis.

For students in Year 9 2027, you may only count ONE High Performance course towards your ROSA award.

Physical Activity and Sport Studies

Code: PSC	**Sports Coaching**	**Prerequisite:** Nil
This course consists of 3 modules: • Coaching • Fundamentals of Movement Skill Development • Australia's Sporting Identity • Theory work comprises 50% of class time with the remaining 50% spent on practical activities relating to the content being studied. • Students will be involved in peer coaching as well as coaching students from John Purchase Public School.		
Payment: Nil		**Contact Person:** Mr J Perry

Code: PSF	**Sports Fitness**	**Prerequisite:** Nil
This course consists of 3 modules: • Technology, Participation and Performance • Physical Activity for Health • Issues in Physical Activity and Sport Theory work comprises 50% of the class time. The remaining time is spent on practical activities relating to the content.		
Payment: Nil		**Contact Person:** Mr J Perry

Code: PSM	**Sports Medicine**	**Prerequisite:** Nil
This course consists of 4 modules: • Sports Medicine • Nutrition and Physical Activity • Event Management • Issues in Physical Activity for Health (Performance Enhancing Drugs) Theory work comprises 66% of the class time. The remaining time is spent on practical activities relating to the content.		
Payment: Nil		**Contact Person:** Mr J Perry

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Code: PSP	**Sports Performance**	**Prerequisite:** Nil
This course consists of 3 modules: • Body Systems and Energy for Physical Activity • Enhancing Performance - Strategies and Techniques • Lifestyle, Leisure and Recreation Theory work comprises 50% of class time with the remaining 50% spent on practical activities relating to the content being studied.		
Payment: Nil		**Contact Person:** Mr J Perry

Code: PBB	**High Performance - Basketball**	**Prerequisite:** Nil
Modules will involve: • Advanced Skill Development in Basketball • Tactics and Strategy in Basketball **Students should be currently participating in club competitions in Basketball.**		
Payment: Nil		**Contact Person:** Mr J Perry

Code: PCR	**High Performance - Cricket**	**Prerequisite:** Nil
This course consists of 4 modules: • Advanced skill development • Tactics and Strategy • History of Cricket • Coaching and Officiating Theory work comprises 20% of class time. The remaining time is devoted on practical sessions to develop the various skills of cricket. **Players need to have played cricket at club level.**		
Payment: Nil		**Contact Person:** Mr J Perry

Code: PNB	**High Performance - Netball**	**Prerequisite:** Nil
Modules will involve: • Advanced Skill Development in Netball • Tactics and Strategy in Netball **Students should be currently participating in club competitions in Netball.**		
Payment: Nil		**Contact Person:** Mr J Perry

Code: PSO	**High Performance - Soccer**	**Prerequisite:** Nil
This course consists of 4 modules: • Advanced skill development • Tactics and strategies • The structure and organisation of soccer in Australia • Coaching and officiating Theory work comprises 20% of the class time. The remaining time is spent on practical activities relating to the content. **Participants need to be playing soccer at competition level.**		
Payment: Nil		**Contact Person:** Mr J Perry

Code: PVO	**High Performance - Volleyball**	**Prerequisite:** Nil
This course consists of 4 modules: • Advanced skill development • Tactics and Strategy • Coaching and Officiating Theory work comprises 20% of class time. The remaining time is devoted on practical sessions to develop the various skills of volleyball.		
Payment: Nil		**Contact Person:** Mr J Perry

COMPUTING

Computing Technology

Studying Computing Technology enables students to develop skills in the specific application of computing technologies and to develop digital solutions applicable to a range of industrial, commercial and recreational contexts. Computing Technology focuses on computational, design and systems thinking. It also develops data analysis and programming (coding) skills. The knowledge and skills developed in the course enable students to contribute to an increasingly technology-focused world. There are 6 available units in two groups. Students ***need*** to choose a balance of units from each of the groups to meet the NESA requirements. Each unit is 1 semester and 50 hours.

Code	Focus Area / Unit	Group
9CTN	**Modelling networks and Social Connections**	**Enterprise information systems**
Students will delve into current social networking trends and develop an understanding of social media influencers and the social, ethical and legal requirements they must adhere to while maintaining audience. This unit will support students as they identify and plan for a safe and secure network for all key stakeholders involved (scenario based). Vulnerabilities will be identified, and potential solutions tested and evaluated for success. Teachers will evaluate project solutions based on data analysis, security and efficient network design		
Payment: $25		
9CTX	**Designing for the User Experience**	**Enterprise information systems**
Students develop their knowledge and skills in the use of a variety of tools, materials and techniques related to multimedia production, user interfaces and the user experience. This unit supports students as they develop projects that use interactivity and work with user data to produce working solutions to problems. Design qualities are emphasised to ensure functionality, accessibility, usability and aesthetics while adhering to privacy and copyright requirements including legal and ethical responsibilities.		
Payment: $25		
9CTD	**Analysing Data**	**Enterprise information systems**
Students develop their knowledge and skills in collecting, analysing and displaying results of analysis using a range of tools and software. This unit supports students as they create storage mechanisms and databases that facilitate data analysis, use data analysis to make evaluations and decisions on the data and create reports and data dashboards that are relevant for a range of stakeholders. Students will also be required to evaluate their projects and other case studies in terms of the validity of data analysis and the use of personally identifying information.		
Payment: $25		
9CTM	**Building Mechatronics and Automated Systems**	**Software Development**
Students develop their knowledge and skills in the use of a variety of microcontrollers and coding options to develop a simple device to support the physical, emotional, social or cognitive wellbeing of a user. This unit supports students as they develop, plan, design and construct a mechatronic system, using algorithms and/or automated systems to solve a real-world problem Students will evaluate their own project, ensuring functionality, code validation and data security.		
Payment: $50		
9CTG	**Creating Games and Simulations**	**Software Development**
Students will delve into the world of computer games and gaming to discover how society has influenced the development of games and simulations. This unit supports students as they follow and evaluate a range of case studies to consider the social impacts of games and how they can be developed. The students will plan and document for new games including using algorithm design methodologies and develop a range of game and simulation projects to demonstrate their understanding.		
Payment: $25		
9CTA	**Developing Apps and Web Software**	**Software Development**
Students will explore the purposes and uses of apps and web software in a range of contexts to see how the changing needs of society are being met online. This units supports student development of programming skills and knowledge in developing apps from defined needs and requirements using a range of tools and software. Projects will include the planning for and production of working apps using algorithms and software tools in an object-oriented paradigm.		
Payment: $25		

TECHNOLOGICAL AND APPLIED STUDIES

The Technology and Applied Studies Key Learning Area (TAS KLA) is the curriculum area that encompasses the subject areas of Design and Technology, Food Technology, Textiles Technology, Graphics Technology, Industrial Technology (focus areas available are Electronics, Automotive, Engineering, Art Metal, Multimedia and Timber) and Design and Technology STEM.

The extensive range of subject areas in this Key Learning Area all share the common thread of designing, problem solving and production. Students have the option of studying technology in specific focus areas relevant to individual needs and interests and to determine the depth and breadth of study within focus areas through a range of specialised modules.

Some courses have two core units which must be studied before the two specialised units can be studied. Students can choose to study the two core units to obtain a 100-hour accreditation in that course or by studying the two core units and the two specialised units to obtain a 200-hour accreditation in that course.

Students may elect a TAS course as an interest only subject. In this case they must complete the initial Core 1 unit, as any further studies in that area would require skills learnt in the Core 1 unit.

Most courses in this area involve a payment to cover student consumables. The amount is listed in the unit module focus description.

Prerequisites apply for most units in the Stage 5 TAS KLA. These are indicated in the unit module focus description.

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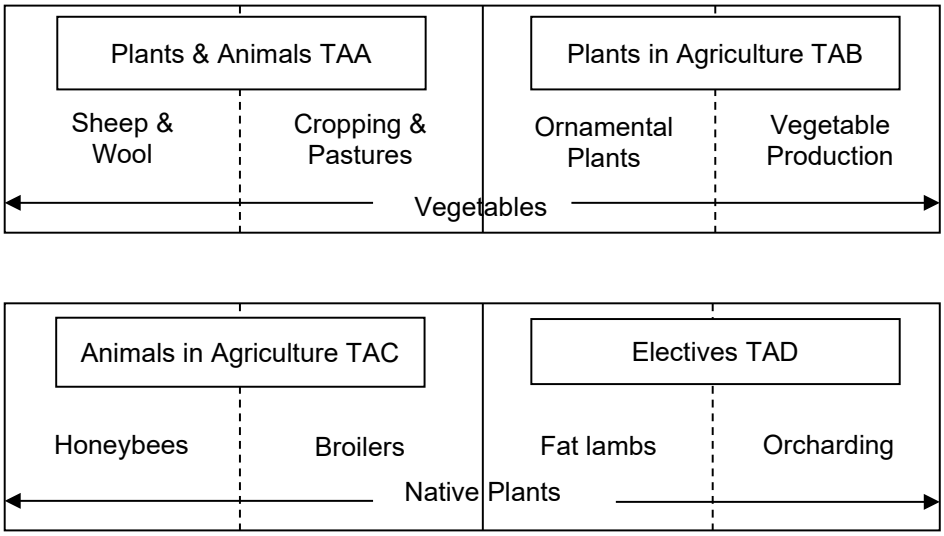
Agriculture

Students must complete all of Core A for the 100-hour course. This may be achieved by studying TAA with either TAB or TAC. Students with an interest in plants should complete the following program of study, 100-hour course TAA + TAB. Students with an interest in animals should complete the following program of study 100-hour course TAA + TAC.

Students must complete both Core A and Core B for the 200-hour course. This may be achieved by studying all units - 200-hour course TAA + TAB + TAC +TAD.



Interest course - Students with an interest in Agriculture may complete any course at any time independently of other courses.

Code: TAA	**Agricultural Systems**	**Prerequisite:** Nil
This unit will explore the relationship between soils, plants and animals. Students study two traditional agricultural systems - Sheep and Wool and Cropping and Pastures. The school sheep form the basis of the unit as animal production, plant production and soil management is studied. Students are invited to learn to drive the tractor.		
Payment: $20		**Contact Person:** Mr P Annetts

Code: TAB	**Agricultural Electives**	**Prerequisite:** Nil
Interests and group dynamics will determine the topics to be covered. Some choices include: **Animal Studies -** This is an extension on the Animals in Agriculture unit. A range of animal production systems are studied. **Landscaping -** Students study many of the aspects of good landscape design and incorporate them into a student-centred project. **Horticultural Industries -** Orcharding and hydroponics are the core to this unit. The skills and knowledge covered in the Plants in Agriculture unit are developed and extended.		
Payment: $20		**Contact Person:** Mr P Annetts

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Child Studies - NESA Endorsed Course

Child studies will involve a number of styles of teaching including teamwork, practical experiences, student-centered learning and caring for a virtual baby.
Assessment is largely based on project work and related assignments.
Students need to complete at least 2 units to achieve Child Studies (100 hours).

Code: THA	**Birth, Babies and Newborn Care**	**Prerequisite:** Nil
This unit is an invaluable insight into the preparation people need to undertake when they plan to become parents. Students will gain an understanding of biological processes which are completed in order to make a baby, have a baby and care for a newborn baby. Additionally, students will learn how people can prepare as individuals, couples and families, when a new member is on the way. Students will also have an opportunity to care for a virtual baby and gain understanding from this experience. Along with this, students will learn how to prepare healthy, nutritious and well-balanced food for introducing a baby to solid food.		
Payment: $60		**Contact Person:** Mrs L Robinson

Code: THB	**Toddlers, Tantrums and Children**	**Prerequisite:** Nil
This unit involves investigating the way babies grow and develop into toddlers and then young children. Students will be involved in a range of interactive activities which reflect the kinds of children's play and reasons for that play. An important focus is on childhood health and safety. There will be many practical experiences related to how young children learn and the types of activities which are appropriate for them. Additionally, students will be taken through the types of childcare facilities that are available and the ones in the local area. From this, students will be expected to provide babysitting for school functions to simulate work placement.		
Payment: $35		**Contact Person:** Mrs L Robinson

Graphics Technology

Graphics Technology involves the study of Technical Hand Drawing, and use of CAD software. Students engage in both manual and a variety of computer-based forms of image generation and manipulation. Graphics Technology develops students' technical and visual literacy, equipping them for participation in a technological world.

Students undertaking Graphics Technology (100-hour course) must complete the two core units TG1 and TG2. Students wishing to continue the study of Graphics Technology (200-hour course) need to complete TG1, TG2, TG3 and TG4 in order. Students studying Graphics Technology as a 50-hour interest course need to choose TG1.

Note: Graphics Technology is a separate course to Industrial Technology and Design and Technology STEM. A student may study Graphics Technology, as well as Industrial Technology - Engineering and Design and Technology STEM, for example.

Code: TG1	**Graphics Technology 1**	**Prerequisite:** Nil
This unit is an introduction to graphic principles and techniques. It includes Australian standards, CAD principles, design in graphics, planning and construction, applied geometry, orthogonal drawing, pictorial drawing, rendering and product drawing.		
Payment: $15 includes all materials used.		**Contact Person:** Mrs E Sarna

Code: TG2	**Graphics Technology 2**	**Prerequisite:** TG1
This unit develops the knowledge covered in module 1 to a more advanced level. Students will look at career opportunities pathways in graphics. Students will work to produce 3D images using CAD based programs.		
Payment: $15 includes all materials used.		**Contact Person:** Mrs E Sarna

Code: TG3	**Graphics Technology 3**	**Prerequisite:** TG2
Students studying the 200-hr unit will study four Option Modules in TD3 and TD4 and may choose to undertake a student negotiated project as one of their four options. Option modules can be chosen from: Architectural Drawing, Australian Architecture, Cabinet and Furniture Drawing, Computer Aided Design and Drafting (CAD), Cartography and Surveying, Computer Animation, Engineering Drawing, Graphic Design and Communication, Landscape Drawing, Pattern Design, Product Illustration, Technical Illustration and Student Negotiated Project.		
Payment: $15 includes all materials used.		**Contact Person:** Mrs E Sarna

Code: TG4	**Graphics Technology 4**	**Prerequisite:** TG3
Please see TG3.		
Payment: $15 includes all materials used.		**Contact Person:** Mrs E Sarna

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Food Technology

In accordance with the K-10 Curriculum Framework, the Food Technology Syllabus considers the diverse needs of all students. It identifies essential knowledge, understanding, skills, values and attitudes and involves students investigating food through practical experience and processes such as research, making and management.

Assessment is largely based on practical work with related assignment work and unit tests.

Code: TFA	**Healthy Living for Life**	**Prerequisite:** Nil
Food Selection and Health - Food is a source of health and energy, yet the basic nutritional facts are sometimes difficult to distinguish amid all the media hype. In this unit students gain an understanding of nutritional requirements and basic menu planning for optimal health. Students also investigate and evaluate controversial food issues and common nutritional myths in order to make more informed food choices. Students work collaboratively to carry out investigation and research and participate in practical activities that require them to prepare safe and nutritious foods to meet nutritional requirements such as adolescents. **Food for Special Needs** - Nutritional needs vary as individuals move through the life cycle. In this unit students gain an understanding of an individual's changing nutritional requirements and the skills needed to select and prepare foods to meet nutritional well-being of all family members such as babies, toddlers and children, adolescents, vegetarians and sports people. A research project allows students to investigate an area of interest and develop educational materials and foods that address the needs of a specific group.		
Payment: $125		**Contact Person**: Mrs L Robinson

Code: TFB	**Food for All**	**Prerequisite:** Nil
Food for Special Occasions -Food is an important part of any celebration regardless of culture or religion. In this unit students examine a range of special occasions such as birthdays, anniversaries, St Valentine's Day, Easter and Christmas and prepare foods unique to specific celebrations. Food presentation and service is a focus of the unit and students learn how to present and garnish foods appropriate to a given setting. Students submit a proposal for a large-scale catering event and collaboratively host a celebration for a major school event**.** **Food Equity** - Globally and locally not all people have equal access to food and basic living conditions. In this unit students examine food equity issues and world food distribution patterns. Students identify groups at risk of food inequity, aid agencies and their role in providing short term and long-term relief. Students plan and prepare a variety of meals to meet the nutritional needs of specific at-risk groups.		
Payment: $125		**Contact Person:** Mrs L Robinson

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Code: TFC	**The Business of Food**	**Prerequisite:** Nil
Food Trends - Food is a major consideration in consumer spending and an important part of the Australian lifestyle. In this unit students examine current food trends and factors that influence the appeal and acceptability of a range of foods. Historical perspectives are examined by investigating the development of recipe and food lifestyle publications over the past 100 years. Students identify trends in dining, food presentation and service over this period producing timelines that identify significant developments. Contemporary food lifestyle programs are viewed, and students are asked to collaboratively produce a video food segment or magazine that showcases current food styling and presentation trends. **Food Product development -** Food product development is a continuous process and is driven by consumer demand and market trends. In this unit students identify recent food product developments and consider changing food habits and the link to well-being. Students examine case studies and document the process of food product development. Students are given a design brief and asked to develop a food product and marketing campaign which addresses the food and lifestyle needs of a particular group. Students will test their product in a market research setting and evaluate its viability.		
Payment: $125		**Contact Person:** Mrs L Robinson

Code: TFD	**Australian Cuisine**	**Prerequisite:** Nil
Food in Australia - A range of factors influence our distinct Australian cuisine. In this unit students examine the diverse range of foods offered in the Australian marketplace and identify the factors that influence this selection. Students investigate he traditional use of bush foods by Aboriginal peoples and design contemporary foods using bush ingredients. The unit will also focus on historical perspectives including early European settlements and multicultural influences on food selection and preparation. During practical activities students will have the opportunity to experiment with a range of ingredients available in the marketplace developing innovative approaches to Australian cuisine. **Food Service and Catering** - The hospitality industry plays an ever –increasing role in providing food and employment. In this unit students examine a variety of catering industries by visiting a number of facilities, identifying their clientele and documenting their employment conditions and opportunities. The unit's focus is the practical application of catering principles, such as menu planning, customer service, food presentation and system development for large scale catering events. Students will gain an understanding of the hospitality industry and develop relevant food handling and presentation skills.		
Payment: $125		**Contact Person**: Mrs L Robinson

Textiles Technology

Through the designing and creating of a range of textile projects, Textiles Technology gives students the opportunity to be creative and to explore the nature and uses of textiles in their world. Students will actively engage in learning about the properties of textiles, textile design and designers and the role of textiles in society. Historical and cultural uses of textiles continue to influence contemporary designers today and students will examine these influences as inspiration for their own work. The focus areas are fashion, costume, furnishings, textile arts and items such as toys, bags and accessories.

Assessment is largely based on project work and design portfolios with related assignments and unit tests. Students undertaking Textiles Technology (100 hours) MUST complete the core semester TT1 and one other semester unit.

Students undertaking Textiles Technology (200 hours) will complete all four semesters.

Code: TTA	**Casual, Street and Beachwear**	**Prerequisite:** Nil
This unit will examine the casualisation of everyday clothing, with an in depth look at the creation of a capsule wardrobe suitable for holiday wear. Students will be introduced to the use of commercial patterns and basic garment construction techniques using woven fabrics. An investigation of design features will lead to students developing their own style. The project work will include construction of a casual garment and non-apparel item suitable for a holiday. Students will develop skills in professional designer portfolio presentation including fashion drawing. Students will investigate natural fibres.		
Payment: $50		**Contact Person**: Mrs W Sheppard

Code: TTB	**Textiles, Toys and Costume**	**Prerequisite:** TT1
This unit will involve students creatively developing non-apparel design ideas. Projects could include soft toys and dress up costumes. A variety of techniques such as gathering, toy construction, specialised fastenings and novelty trims will be explored. Students will investigate leading costume designers and their use of design to support characterisation, as well as synthetic fibres and labelling requirements for textiles.		
Payment: $50		**Contact Person**: Ms W Sheppard

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Design and Technology

In accordance with the K-10 Curriculum Framework Design and Technology 7-10 syllabus, the study of Design and Technology considers the diverse needs of all students. The various focus areas provide opportunities for students to develop knowledge, understanding and skills in relation to Design and Technology in today's society. The modules develop knowledge and skills in design techniques, which are enhanced and further developed through the study of subsequent specialised modules.

Design and Technology Years 7-10 is an elective course designed to build upon the Technology Mandatory Years 7-8 course. Students engage in a range of practical activities as they design, manage, produce and evaluate quality designed solutions.

Code: TDA	**Amazing Young Fashion Designers**	**Prerequisite:** Nil
This course is a mandatory course in the subject of Design and Technology. In order for you to achieve 100 hours in this subject you will need to complete the second mandatory course of TDB - Renovation Rescue. This course is designed to introduce beginner drawers to Fashion Drawing. It is for those with creative ideas about fashion to develop their understanding and skills. The course covers the principles of drawing fashion items and exploring the use of various colour mediums. Students will explore these skills through a variety of contemporary design briefs such as Fairy Costumes and Fashion of the Future. Students will additionally research modern Australian Designers and their approaches to sustainable design.		
Payment: $30		**Contact Person:** Mrs L Robinson

Code: TDB	**Renovation Rescue**	**Prerequisite:** Nil
This is the second course in the mandatory course's suite for Design and Technology. This must be completed to achieve 100 hours in this subject, being paired with TDA - Amazing Young Fashion Designers. Students will investigate and develop designs in architecture. This will be delivered within the theme of building interior design and renovation, students will examine and select appropriate furnishing, lighting and colour schemes to enhance exterior and interior spaces. Various environments will be explored such as houses, cafes and commercial establishments. Project work will involve students in preparing drawings, story NESAs, visual presentations and scaled models of their ideas.		
Payment: $30		**Contact Person:** Mrs L Robinson

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STEM - Design and Technology

Design and Technology education incorporates all STEM fields (Science, Technology, Engineering and Mathematics) into one unique subject. The subject focuses on utilising the design process to solve real world problems using relevant scientific and mathematical concepts. This is an NSW Education Standards Authority (NESA) Endorsed Course.

Code: TST1	**STEM 1**	**Prerequisite:** Nil
In this introductory unit to D&T STEM, students will begin by undertaking a range of small experimental activities, introducing them to some basic D&T STEM principles. Students will then move on to exploring microelectronics and construct a robot using a systems approach, enabling the robot to perform identified tasks. The second project will be based on Environmental Systems and sustainability. Students will research and explore sustainable energy and materials to design and construct a mouse trap powered car. These projects involve Computer Aided Design and Manufacturing, to produce parts which will allow their vehicles to compete.		
Payment: $50		**Contact Person:** Mrs E Sarna

Code: TST2	**STEM 2**	**Prerequisite:** TST1
In STEM 2, students will learn introductory electronics systems and basic structural engineering following the principles of D&T STEM. In the electronics unit they will be constructing basic electronics circuits and learn about basic electronic principles by experimentation, including making an electric motor out of basic household materials. They will then move on to designing and producing a solar powered toy. The Structural Engineering component will have the students using DJI drones. They will learn how to program the drones to complete autonomous tasks. The final part of this unit will have the students applying STEM principles to design and build components for an obstacle course which they will program the drones to navigate.		
Payment: $50		**Contact Person:** Mrs E Sarna

Code: TST3	**STEM 3**	**Prerequisite:** TST2
Aeronautics. Throughout history, innovations have provided the opportunity for us to do things better, safer, faster and more efficiently. Air travel is an area that is constantly being explored and improved. In this unit, students will learn about aeronautics and aerodynamics and apply these skills by designing and producing 'F1 in Schools' racing cars. The project includes rigorous, engineering-focused design and testing. Architecture. With sky-rocketing housing prices and the lack of available land due to population growth, the Tiny House movement has grown exponentially over the last decade. In this unit students will use D&T STEM principles to research, design and build a scale model of a Tiny House. They will explore scientific material properties and new and emerging technologies associated with materials strengths and weights. They will use their mathematical skills to measure and design floorplans to allow effective and efficient use of available space.		
Payment: $50		**Contact Person:** Mrs E Sarna

Code: TST4	**STEM 4**	**Prerequisite:** TST3
Packaging. With consumerism at its heights, packaging plays a major role in society, from marketing aspects to shipping configurations and disposal. In this unit students will explore a range of packaging materials, processes and implications, including packaging machinery and environmental consequences through life-cycle-analysis. They will use scientific and mathematical principles to design and construct a suitable packaging for an object. Student Negotiated Project. In this unit students are to realise and develop a Major Scientific Research Project. In completing the project, students will draw on techniques and technologies from the previous STEM units to produce a solution or answer to a contemporary scientific or technological problem. They will continually draw on Engineering concepts, Scientific methodologies and Mathematical reasoning to inform the design and production of their project. The research project is expected to be similar to a science fair concept, popular in the United States.		
Payment: $50		**Contact Person:** Mrs E Sarna

Industrial Technology - Art Metal (Jewellery)

In accordance with the K-10 Curriculum Framework Industrial Technology 7-10 syllabus, the study of Art Metal takes into account the diverse needs of all students. The Art Metal focus area provides opportunities for students to develop knowledge, understanding and skills in relation to Jewellery, Fine Metalwork and associated industries.

The two Core units develop knowledge and skills in the use of materials, tools and techniques related to making Jewellery which are enhanced and further developed through further study in the subsequent modules.

Students undertaking Industrial Technology – Art Metal (100 hours) MUST complete two Core units TR1 and TR2.
Students undertaking Industrial Technology – Art Metal (200 hours) continue with TR3 and TR4.
Students undertaking Industrial Technology – Art Metal as an Interest subject for one semester choose: TR1

Code: TR1	**Jewellery 1**	**Prerequisite:** Nil
This unit explores ring and pendant design and also the production of basic stone settings. Students will learn to make Stone settings for both Cabochon and Facetted Stones, producing one off jewellery designs and themed sets which complement the stone settings. Students will be assessed on the quality of their design development and solutions.		
Payment: $50		**Contact Person:** Mr S Skodras

Code: TR2	**Jewellery 2**	**Prerequisite:** TR1
In Enamelling and Etching, students will develop skills relating to the enamelling and etching processes such as sweat soldering and wire soldering techniques. They will produce pendants, rings and earrings made from sterling silver and other semi-precious metals. All project work is completed individually, the focus will be for students to research and develop their own designs.		
Payment: $50		**Contact Person**: Mr S Skodras

Code: TR3	**Jewellery 3**	**Prerequisite:** TR2
Students will develop skills in Chain Making and Resin Jewellery work. The emphasis will be on creating an original chain using silver as well as the development of a custom clasp. Students will also develop a resin casting project. This unit involves intricate silver smithing skills. Students will be assessed on the quality and execution of their designs and related processes.		
Payment: $50		**Contact Person:** Mr S Skodras

Code: TR4	**Jewellery 4**	**Prerequisite:** TR2
Students learn about state of the art casting techniques. They will create stunning pieces of work. This unit utilises industry specific technology and jewellery-making techniques. Students will be assessed on creativity, skill development and the quality of their final products.		
Payment: $70		**Contact Person:** Mr S Skodras

In each of the units students will work either as individual or in small groups completing projects, which incorporate the elements of design. Each project will follow the design process and a folio of each project will be developed and submitted for assessment.

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Industrial Technology - Building and Construction

Code: TB1	**Building Construction 1**	**Prerequisite:** Nil
In Unit 1 of the Building and Construction course, students will dive into the world of construction by starting with the fundamentals. This will involve learning about WH&S protocols and regulations, selecting and applying materials correctly, and using a range of tools and machines to create a cement float and timber toolbox. Students will also be introduced to the principles of framing joinery techniques, which will help them develop their design and communication skills. By linking all activities to industry standards, students will gain a deep understanding of the building industry and its best practices.		
Payment: $60		**Contact Person**: Mr O Meredith

Code: TB2	**Building Construction 2**	**Prerequisite:** TB1
In Unit 2, students of Building and Construction will continue to expand their knowledge by taking on a new challenge with the construction of a foldable step ladder. They will build on their existing knowledge of WH&S protocols, material selection and application, and tool and machine use to create these key elements of any building. Through this project, students will develop their skills in design and communication and learn how to apply them in a practical context. As with all activities in this course, industry standards will be emphasised to ensure students are fully prepared for the workplace.		
Payment: $60		**Contact Person**: Mr O Meredith

Code: TB3	**Building Construction 3**	**Prerequisite:** TB2
Specialised Unit 3 in Building and Construction is all about outdoor construction and landscaping. This unit will challenge students to apply their existing knowledge of WH&S, material selection and application and tool and machine use to create outdoor projects such as concrete slabs and garden benches. By working on these projects, students will further develop their skills in design and communication, with a specific focus on outdoor construction and landscaping. As always, industry standards will be emphasized to ensure students are fully equipped to work in this area of the building industry.		
Payment: $60		**Contact Person**: Mr O Meredith

Code: TB4	**Building Construction 4**	**Prerequisite:** TB3
In Specialised Unit 4, students of Building and Construction will continue to hone their skills in outdoor construction and landscaping, with a focus on larger and more complex projects. Students will build on their existing knowledge of WH&S, material selection and application and tool and machine use to create structures such as picnic tables and concrete slabs. As with all units in this course, design and communication skills will be emphasized to help students create structures that are not only functional, but also aesthetically pleasing.		
Payment: $60		**Contact Person**: Mr O Meredith

Please note that both the Specialised units in Outdoor Construction and Landscaping can be interchanged with Specialised units in Construction and Renovation where there are no school based projects available at the time.

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Industrial Technology - Engineering

In accordance with the K-10 Curriculum Framework Industrial Technology 7-10 syllabus, the study of Industrial Technology - Engineering takes into account the diverse needs of all students. The Engineering focus area provides opportunities for students to develop knowledge, understanding and skills in relation to the Engineering and associated industries.

The two Core Modules develop knowledge and skills in the use of materials, tools and techniques related to engineering which are enhanced and further developed through the study of subsequent Control systems and Alternative Energy modules.

Students undertaking Industrial Technology - Engineering (100 hours) MUST complete the two Core units TE1 and TE2.

Students undertaking Industrial Technology - Engineering (200 hours) continue with TE3 and TE4.
Students undertaking Industrial Technology - Engineering as an Interest only subject for one semester choose TE1.

Code: TE1	**Engineering 1**	**Prerequisite:** Nil
A practical based unit that introduces students to a range of tools, equipment, joining methods and safety associated with Engineering. Students will also study about the properties, structure and applications of various materials including hardness, ductility, and compressive strengths. Students will design and construct a model tower and truss bridge to specifications provided, then subject them to various tests or load it to destruction. Experience will be gained in designing, constructing and using the isometric method of drawing including details. Students will also learn to make mechanical calculations of forces in beams and structures and effects of forces on structures. Equipment will include basic woodworking hand tools whereas the materials used will be mainly timber and timber related products.		
Payment: $30		**Contact Person:** Mr L Hogan

Code: TE2	**Engineering 2**	**Prerequisite:** TE1
This unit expands upon Engineered Structures Core Module 1. Students will further develop their knowledge and skills in the use of hand and power tools and equipment. Study of the properties of materials will be further investigated in the toughness, malleability, corrosion, resistance, torsional and shear strengths and heat treatment. Students will design a project which will involve different mechanisms such as levers, pulleys, gears and cams. Other topics studied will be frictional forces, mechanical advantage, velocity ratio and efficiency.		
Payment: $30		**Contact Person:** Mr L Hogan

Code: TE3	**Engineering 3**	**Prerequisite:** TE2
This unit builds upon TE1 and TE2. Students will further develop their knowledge by utilising materials, designing and drawing to scale, engineering report writing and model construction of mechanical, pneumatic, hydraulic and electronic control systems. This module focuses around teamwork and encourages students to consider the task as an Engineer. Students will also learn about mechanical calculations, forces and the effects they have on control systems, CAD applications and simulations at an elementary level.		
Payment: $30		**Contact Person:** Mr L Hogan

Code: TE4	**Engineering 4**	**Prerequisite**: TE3
This unit builds upon TE1, TE2 and TE3. Students will further investigate engineering materials, principles and processes. Major topics studied will include composite materials, alternative energy sources such as solar, wind, wave, human and thermal. The topic of electricity will be studied in depth. Students major project will include the investigation of an alternative energy source accompanied by an engineering report which will be computer generated using a range of computer software applications.		
Payment: $30		**Contact Person:** Mr L Hogan

Industrial Technology - Electronics

Students undertaking Industrial Technology - Electronics (100 hours) MUST complete the two Core units TL1 and TL2.
Students undertaking Industrial Technology - Electronics (200 hours) continue with TL3 and TL4.
Students undertaking Industrial Technology - Electronics as an Interest only subject for one semester choose TL1.

Students follow a prescriptive experiment-based introduction and development program in semesters one and two. In the third semester, students are able to direct their learning towards a specific topic in the general area of electronics. In the fourth semester students are able to specialise in one of three topic areas. The study of electronics should give students a sound theoretical and practical knowledge of electronics and electronic systems and allow for future progression into the senior school or trade study. Students who choose to study Electronics must complete two modules for a 100 hour course or four modules for a 200 hour course. The semester units **must** be studied in sequence.

Code: TL1	**Electronics 1**	**Prerequisite:** Nil
The study of the use and function of basic electronics components such as Resistors, Diodes, Capacitors and Transistors. Experiments involve production of simple circuits, relevant calculations, report writing, product evaluation and use of testing equipment to troubleshoot and solve problems. Constructed projects include Continuity Testers, Amplifiers and Decision Makers.		
Payment: $40		**Contact Person:** Mr E Kennedy

Code: TL2	**Electronics 2**	**Prerequisite:** TL1
Further study into the function of electrical systems including Timers and Counters. Experiments involve production of circuits, relevant calculations, report writing, product evaluation and use of testing equipment to troubleshoot and problem solve. Circuits are created with a variety of methods, including through use of emerging technology. Students will use Computer Aided Design and Manufacturing equipment to produce circuits including Light Detectors, Electronic Dice and Coin Simulators.		
Payment: $50		**Contact Person:** Mr E Kennedy

Code: TL3	**Electronics 3**	**Prerequisite:** TL2
In Specialised Electronics, students learn about Digital Electronics, including Binary Logic, Logic Gates and Specialised Integrated Circuits. Knowledge developed in Core 1 and Core 2 provides a basis for the development of more complicate circuits. Computer Simulation is used to design and test complex digital circuits. Computer Aided Design and Manufacturing equipment is used in PCB production. Students will use EasyEDA, ExpressPCB, Roland CutStudio and a variety of Adobe programs to produce circuits and enclosures.		
Payment: $50		**Contact Person:** Mr E Kennedy

Code: TL4	**Electronics 4**	**Prerequisite:** TL3
Advanced Digital Electronic systems. Computer simulation and Computer Aided Design and Manufacturing are used to develop a range of projects, culminating in the development of an Arduino based Student Negotiated Project, conducted in a similar way to an HSC Major Project. Students can use all the equipment and components used in prior units, and will work to design their own circuit, simulate it using appropriate software, prototype their design, and build a quality final product.		
Payment: $60		**Contact Person:** Mr E Kennedy

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Industrial Technology - Multimedia

In accordance with the K-10 Curriculum Framework Industrial Technology 7-10 syllabus, the study of Industrial Technology - Multimedia takes into account the diverse needs of all students. The multimedia focus area provides opportunities for students to develop knowledge, understanding and skills in relation to the multimedia and associated industries.

The two Core Units develop knowledge and skills in the use of materials, tools and techniques related to multimedia which are enhanced and further developed through the study of subsequent specialised modules.

Students undertaking Industrial Technology - Multimedia (100 hours) MUST complete the two Core units TM1 and TM2.
Students undertaking Industrial Technology - Multimedia (200 hours) Multimedia continue with TM3 and TM4.
Students undertaking Industrial Technology - Multimedia as an Interest only subject for one semester choose TM1.

Code: TM1	**Multimedia 1**	**Prerequisites:** Nil
Inspired by films such as Chicken Run and The Lego Movie, students learn about basic animation techniques combined with movie editing software. By the conclusion of this core unit students will create a set and produce a short linear stopmotion animation. Students will also be involved in creating a short film, including recording and editing footage. Hardware used in this course includes digital cameras, tripods and lighting equipment. Software used includes Adobe Photoshop, Adobe Premiere Pro and Adobe Audition.		
Payment: $20		**Contact Person:** Mrs E Sarna

Code: TM2	**Multimedia 2**	**Prerequisites:** TM1
This unit aims to open students' minds to 3 dimensional modelling and animation. Using modelling packages such as 3D Studio Max or Blender, students will design a 3D environment that displays graphics or textures which they have created in Adobe Photoshop. Once the room is assembled and textured, students will create an interactive digital walk through animation of the room using Adobe Flash.		
Payment: $20		**Contact Person:** Mrs E Sarna

Code: TM3	**Multimedia 3**	**Prerequisites:** TM2
In this unit students will be involved in creating their own special effects masterpiece. They will work through the design process to take their idea from concept to realisation. Using hardware such as video cameras, tripods, lighting equipment and high powered desktop computers, students will capture and edit their own footage. Software used includes Adobe Premiere and Adobe After Effects.		
Payment: $20		**Contact Person:** Mrs E Sarna

Code: TM4	**Multimedia 4**	**Prerequisites:** TM3
This unit directly flows on from Multimedia 3. Students will further develop their skills in a variety of programs through the creation of a special effects feature movie to enter in a film festival such as Tropfest. They may instead choose to create an animated movie to enter in similar competitions. The project will combine skills developed in all previous Multimedia units.		
Payment: $20		**Contact Person:** Mrs E Sarna

In each of the units students will work in groups of 1 or 2 and will produce a completed project that is complemented with a matching management, research and design portfolio. This is then presented to the class by the individual or group at the end of each term.

Both portfolio and presentation are marked as the assessment.

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Industrial Technology - Timber

In accordance with the K-10 Curriculum Framework Industrial Technology 7-10 syllabus, the study of Industrial Technology - Timber takes into account the diverse needs of all students.

The timber focus area provides opportunities for students to develop knowledge, understanding and skills in relation to the Timber and associated industries.
The two Core Units develop knowledge and skills in the use of materials, tools and techniques related to timber which are enhanced and further developed through the study of subsequent specialised modules.

Students undertaking Industrial Technology - TIMBER (100 hours) MUST complete the two Core units TW1 and TW2.
Students undertaking Industrial Technology - TIMBER (200 hours) TIMBER continue with TW3 and TW4.
Students undertaking Industrial Technology - TIMBER as an Interest only subject for one semester choose TW1.

Code: TW1	**General Wood 1**	**Prerequisite:** Nil
This course is designed to develop practical skills in wood joinery processes and safe use of hand and power tools, as well as their understanding of traditional furniture construction techniques. Students will apply design principles, analyse material properties and learn timber veneering and inlaying to produce a Trinket Box with custom embellishments. Emphasis is placed on workshop safety, WHS compliance, and risk management, alongside workplace communication and the societal and environmental impacts of timber. Through practical projects and a folio, students demonstrate their skills, integrating precision and creativity in a structured, safety focused setting.		
Payment: $70 includes all materials used		**Contact Person**: Mr O Meredith

Code: TW2	**General Wood 2**	**Prerequisite: TW1**
This course is designed to build upon the foundational knowledge and skills gained in Core unit 1, with a focus on deepening students' understanding of Industrial Technology Timber before progressing into Specialised units 3 and 4. Students will use an expanded range of power and machine tools, sanding, routing and turning to construct a Desktop Tidy, refining complex joinery and problem-solving skills. Design processes foster critical thinking for planning and executing detailed projects, documented in a folio. Safe tool use and WHS compliance are prioritised, reinforcing best practices while encouraging innovation and precision in a structured, industry-aligned environment.		
Payment: $70 includes all materials used		**Contact Person:** Mr O Meredith

Code: TW3	**General Wood 3**	**Prerequisite: TW2**
Building on Core 1 and 2, this course hones traditional hand-cut joinery, emphasising craftsmanship over machine reliance. Students will master advanced techniques like turning between centres and construct a carry tray to refine skills in joints such as mortise and tenon or through housing. Projects, documented in a professional folio, showcase expertise in design, material selection and finishing. Safe tool use and WHS compliance are prioritised, with students applying risk management principles and by course end, students gain a deep understanding of cabinetwork and traditional joinery, prepared for further study.		
Payment: $85 includes all materials used		**Contact Person:** Mr O Meredith

Code: TW4	**General Wood 4**	**Prerequisite: TW3**
This final course empowers students to apply skills and knowledge from prior units to design and build a dovetail jewellery box, integrating design principles, material properties like timber selection, and techniques such as hand-cut dovetails and finishing. Using hand and power tools, they will execute the project and document processes and reflections in a professional folio, including workshop drawings and cost calculations. By course end, students will be well prepared to transition into the Stage 6 Preliminary Course: Industrial Technology Timber Products and Furniture Technologies.		
Payment: $85 includes all materials used		**Contact Person:** Mr O Meredith

SCHOOL BASED COURSES

School-based courses are interest subjects that are approved for teaching but are unique to CTHS, intended to broaden genuine academic interest and promote the development of skills and abilities, students can add these to their selection. Two units over the two years are available beyond the NESA and School requirements.

English Elective Course

English uses an integrated approach to the development of skills. Speaking, Listening, Reading and Writing skills are developed through the study of literature and language, through the use of performance and investigation of the mass media and different technologies.

It is especially important for students in Year 9 to realise that their work is an important stepping stone for the transition to senior English that a year of committed work in Year 9 will prepare students well for the demands of Year 10. Several Elective courses are being offered to allow students to expand their experiences in English.

Code: EWR	**Writers and Writing**	**Prerequisites:** Nil
This unit focuses on the creative writing process. Students will firstly research and examine the writings of a number of famous writers. They will have a brief overview of the development of language and literature through the ages. The second half of the course involves the students in creating their own significant piece of writing. They will be required to draft, edit, polish and reflect upon their own piece of work and their work may be in one of a number of forms, including narrative, script, digital narrative, poetry or multimedia. This major work constitutes the main part of the assessment for this course. This course in suitable for students who enjoy reading and/or creative writing.		
Payment: Nil		**Contact Person:** Mr S Henry

Code: ESP	**English Speakers**	**Prerequisites:** Nil
This unit focuses on the skill of public speaking. Students will listen to and study various famous speeches, considering the various elements of that speech which make it significant. This is also a very practical course and students will be required to attempt a range of tasks including impromptu and prepared speeches, debates, panel discussions and interviews. They will also learn about preparation and speech writing for different audiences, voice techniques, persuasive language and the power of oratory. This would be a valuable course for students who would like to develop their public speaking skills or enhance their analytical skills.		
Payment: Nil		**Contact Person:** Mr S Henry

Code: EPO	**Podcasting and Critical Thinking**	**Prerequisites:** Nil
This unit complements the Speakers course and focuses on critical thinking and podcasting. Students will listen to podcasts on a variety of subjects and consider the role this medium plays in our modern world. Within this study, students will develop their critical thinking skills by considering an array of issues and ideas and not only developing a personal response to them, but learning how to articulate them in an open format. This is a practical course where students will develop their analytical skills and learn how to build an argument in a coherent, thought-provoking way.		
Payment: Nil		**Contact Person:** Mr S Henry

English as an Additional Language or Dialect (EAL/D)

Code: EAL/D	**English Language and Culture**	**Prerequisites:** Nil
This course examines short texts about Australian culture, preparing them for content they will engage with in other Stage 5 subject areas as well as some of the senior English courses. There is a strong focus on developing students' reading, writing, listening, and speaking skills, as well as targeted vocabulary study. Students will work to complete a variety of practical tasks, including leading class discussions. In the second semester, students will develop their Academic English and refine their skills to assist them with the HSC minimum standard writing component. This course would be most valuable to students who have not completed all their schooling in Australia and/or come from a non-English speaking background.		
Payment: Nil		**Contact Person:** Ms A Carniato

Literacy Workshops

Code:	Literacy Workshop A	Prerequisite: Nil
This workshop is designed specifically for Year 9 students to strengthen their foundational reading and writing skills. Through engaging activities, participants will develop vocabulary, improve sentence structure and enhance their ability to understand and analyse a variety of texts. The course also focuses on clear and effective writing techniques, helping students express their ideas with confidence. Literacy Workshop A provides Year 9 students with essential skills to support their academic growth and prepare them for future literacy challenges.		
Payment: Nil		**Contact Person:** Mr P Hind

Code:	Literacy Workshop B	Prerequisite: Nil
This workshop is designed for Year 10 students to build on their reading and writing skills, while developing practical organisational strategies. Participants will learn how to plan and structure essays, reports, and presentations clearly and effectively. The course also covers time management, note taking and task planning to help students manage their schoolwork and assignments more efficiently. Literacy Workshop B supports students in strengthening their literacy skills and organisation for success in Year 10 and beyond.		
Payment: Nil		**Contact Person:** Mr P Hind

Both Literacy Workshop A and Literacy Workshop B include valuable organisational support to help students manage their learning. Practical skills such as time management, note taking and task planning will be targeted. This support should empower students to stay organised, meet deadlines, and approach reading and writing assignments with confidence and clarity.

Careers (Vocational Education)

Code: VOC **Careers**	**Prerequisite:** Nil
Vocational Education is a compulsory timetabled subject in Year 10 and runs for one semester. This course seeks to equip students with skills and knowledge they will need as they make decisions about their careers and life paths. Throughout the semester students will work through the following modules: • All About Me - Students identify their interests, strengths, personal characteristics and life aims • Career Exploration - Students research the education and training requirements of the occupations which are suitable to them • Post-School Options - Students make informed decisions about what career path to take and what post-school options are available to them • Preparing for Future Employment - helps students with essential job-seeking skills such as resume writing, cover letter writing, and interview techniques. All students are encouraged to undertake at least one week of work experience to explore the world of work and their career interests.	
Payment: $20 for Portfolio folder & career resources	**Contact Person:** Mrs F Arroyo

Stage 5 Christian Studies (Christian SRE)

At CTHS, Christian Studies (Christian SRE) is provided by the Pennant Hills and Cherrybrook Christian Education Association (PH&CCEA) on behalf of the local Christian churches. This subject is not a CTHS school-based subject, nor is it a NSW Education Standards Authority (NESA) subject.

Code: XST	**Christian Studies - Christian SRE**	**Prerequisite:** Nil
Christian Studies (Christian SRE) is a non-compulsory timetabled subject in Year 10, once a fortnight, for one semester. (Parents may withdraw their child from the subject at any time by emailing the Stage 5 Head Teacher). In Christian Studies students will study the book of Luke, looking closely at the historical life of Jesus and exploring the claims made about him. Throughout the semester students will consider the following questions: • What was Jesus trying to achieve through his mission on earth? • Does Jesus' mission and ministry have any relevance today? • Why do the Gospels focus so much on Jesus' death? • How does Luke see Jesus as special?		
Payment: $10		**Contact Person:** Mr M Eastman

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ELECTIVE SUBJECT SELECTIONS STAGE 5 PLAN

List the 14 subjects you wish to complete over Year 9 and 10. Each subject is worth 50 hours.

Completed	NESA Course	CTHS Subject
Year 9		
Year 9		
Year 9		
Year 9		
Year 9		
Year 9		
Year 9		
Year 9		
Year 10		
Year 10		
Year 10		
Year 10		
Year 10		
Year 10		

List the NESA Courses (100 and/or 200 hours) that you will complete by the end of Year 10:

- 100 / 200 _____
- 100 / 200 _____
- 100 / 200 _____
- 100 / 200 _____
- 100 / 200 _____
- 100 / 200 _____
- 100 / 200 _____

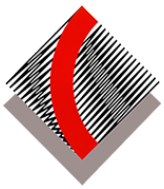
If this totals at least 400 hours you will be eligible for a ROSA. A reminder, Mandatory Subjects, English Elective and Literacy Workshop, do not count to NESA hours.

SUBJECT SELECTION CHOICES

Year 9 (students will complete 8)

Choice	Electives Picked
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Year 10 (students will complete 6)

Choice	Electives Picked
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

You can use the tables above to draft possible choices and as a record of what you have entered.