COMET BAY COLLEGE
SEEK EXCELLENCE
2022
Year 10
Course Selection Handbook

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Year 10 Curriculum

All students in lower school at Comet Bay College study Mathematics, English, Science, Humanity and Social Sciences, and Health and Physical Education.

In Year 10, students study compulsory Physical Education, however, they are able to select 3 options in which to specialise. The options are to be selected from the following Learning Areas:

- Health and Physical Education
- The Arts
- Technologies
    - Home Economics
    - Design Technologies
    - Digital Technologies
- Others

It is strongly recommended that students select options in which they have an interest, wish to pursue as a career or future studies, and have a particular strength in.

Some courses offered in Years 9 and 10 will lead to Certificate II qualifications, General courses or ATAR courses, respectively, this information is indicated in the tables provided at the conclusion of each Learning Area within this handbook.

Supporting Notes:

- *As the option areas are non-compulsory they incur specific fees, only when the fees for a course have been paid is a student's place in that course guaranteed.*

- *Where an optional course requires additional materials to be consumed by the student, the Compulsory Charge must be paid to cover the cost of those consumables (e.g. food ingredients, fabric, external tuition, venue hire etc.). The cost of courses should be considered in the selection process.*

- *All these choices will be offered, however only those that have a viable number of students will actually run in 2022.*

We work very hard to ensure a high level of accuracy is maintained in the generation of our Course Selection Handbooks; however, anomalies do occur from time to time. Occasionally, changes to course details may be necessary due to circumstances beyond our control.

Health and Physical Education

All students must participate in Health Education and General Physical Education throughout Years 7 – 10.

The Development Programs are available via selection trials only. If places become available at the end of each term, students will be selected on the basis of their demonstrated ability and commitment to the particular area of study.

Australian Football Specialist Program Boys (10FOOT) Charge $220

The Comet Bay College Australian Football Specialist Program is designed to be a consistent learning program over Years 7 to 12. This program is designed to provide boys with ongoing development in the skills and attributes needed to play Australian Rules Football at the highest level. Students will be exposed to Specialist Coaching and will study and practise offensive and defensive skills, advance strategies and tactics, and work towards the level of conditioning required, while practising both umpiring and coaching roles.

Students will focus on goal setting and will have regular individual reviews to assess their development within the program with assistance given to reach each selected goal.

The Comet Bay College Australian Football Specialist Program will invite talented players to participate each year.

NOTE:
Additional optional costs may be required to cover training camps and touring matches. A pre-season camp is normally held each year which may cost up to $150. These will appear on the Additional Extra Cost Options table provided within the 2022 Voluntary Contributions and Charges Handbook, disseminated to families in December 2021.

Australian Football Specialist Program Girls (10FOOTG) Charge $220

The Comet Bay College Australian Football Specialist Program is designed to be a consistent learning program over Years 7 to 12. This program is designed to provide girls with ongoing development in the skills and attributes needed to play Australian Rules Football at the highest level. Students will be exposed to Specialist Coaching and will study and practise offensive and defensive skills, advance strategies and tactics, and work towards the level of conditioning required, while practising both umpiring and coaching roles.

Students will focus on goal setting and will have regular individual reviews to assess their development within the program with assistance given to reach each selected goal.

The Comet Bay College Australian Football Specialist Program will invite talented players to participate each year.

NOTE:
Additional optional costs may be required to cover training camps and touring matches. A pre-season camp is normally held each year which may cost up to $150. These will appear on the Additional Extra Cost Options table provided within the 2022 Voluntary Contributions and Charges Handbook, disseminated to families in December 2021.

Basketball - Extension Program (10BASX) Charge $50

Prerequisites:

☑ **Students will undergo a selection process before being accepted into this program.**

This course is designed for the Basketball player that is looking to improve all aspects of their complete game. The program will work on all aspects of the sport with skill, tactical, game-play and fitness elements being the key focus.

Fitness Education (10FIT) Charge $100

This course looks at introducing students to the components of fitness and principles of training across a range of disciplines including circuit, boot camp, aerobics, strength and conditioning, combat and core stability.

Emphasis will be placed on the execution, teaching and delivering of correct techniques for individual exercises. Students must be prepared to experience all aspects of fitness for a range of target groups e.g. sport specific, health related and special populations.

Fitness Testing will be carried out throughout the program.

NOTE:

Additional optional costs may be required to cover training camps and competitions. These will appear on the Additional Extra Cost Options sheet within the 2022 Contributions and Charges Handbook, disseminated to parents around 1st December 2021.

Outdoor Education (10OUT) Charge $250

Prerequisites:

☑ **Students will undergo a selection process before being accepted into this program and need to be able to swim 100 metres unassisted, and to float and tread water for at least 3 minutes.**

This program is designed to develop competence in dealing with the natural environment in a safe manner. Classes will include theory sessions which prepare the student to interact with the environment with minimum impact. Students will gain an understanding of emergency responses to a range of unpredictable outdoor challenges, ***e.g. survival swimming, first aid, travel skills and survival skills.***

Students must be prepared to work in a wide range of aquatic, as well as land environments. Students will take part in activities ranging from problem solving and leadership activities, navigation, orienteering, expedition planning, roping, camp cooking and emergency first aid.

NOTE:

Additional optional costs of up to $100 may be required to cover for an optional off-site camp. These will appear on the Additional Extra Cost Options sheet within the 2022 Contributions and Charges Handbook, disseminated to parents around 1st December 2021.

Physical Education (10PE) Charge $46

The focus of this course is the development of students' knowledge, understanding and application of anatomical, physiological and practical factors associated with performing in physical activities.

Physical Education - Extension Program (10PEX) Charge $60

This course is designed to cater to those students who excel in their sporting endeavours. The program covers sports and theoretical components not covered in the General Physical Education Program, and provide enrolled students with opportunities to travel away from the college campus to experience a range of sporting facilities offered within the community.

Soccer Development Program (10SOC) Charge $50

Prerequisites:

☑ **Students will undergo a selection process before being accepted into this program.**

This program is designed to provide students with ongoing development in the skills and attributes needed to play soccer. Through this program, students will be exposed to individual skill development with the knowledge and tactics that could be transferred to higher order levels of application in Year 11 Physical Education Studies.

The Soccer Development Program will be offered through specific drills and training in lessons alongside games and matches with other schools if selected to represent Comet Bay College.

NOTE:

Additional optional costs may be required to cover training camps and touring matches. A pre-season camp may be held which may cost up to $150. These will appear on the Additional Extra Cost Options table provided within the 2022 Voluntary Contributions and Charges Handbook, disseminated to families in December 2021 for the 2022 Academic Year.

Sport and Community Leadership (10SPLC) Charge $75

Prerequisites:

Students will undergo a selection process before being accepted into this program.

The purpose of this course is to produce responsible, motivated and confident people who can lead safe, purposeful and enjoyable sporting and recreational activities. It has been designed to encourage students to get involved in organising and assisting with the provision of sport and recreation in the local area.

Students who participate in this course are expected to be ambassadors in the area of health and well-being within the college and local primary schools. Throughout the course, students will gain knowledge in organisational skills, safety in sport, other recreational agencies, fitness training practices and competition structure. Students will have the opportunity to gain coaching and officiating awards in a variety of sports.

Surfing Development Program (10SURF) Charge $250

Prerequisites:
Students will undergo a selection process before being accepted into this program.

This program is designed to provide a select group of students with the opportunity to develop and extend their skills in surfing, beach and water safety and other aspects of surfing including weather and competition surfing. The 'Big Wave Surfing School' will provide coaching, and students will be able to gain Surfing Levels Accreditation as set out by Surfing WA.

NOTE:
Additional optional costs may be required to cover training camps and competitions. These will appear on the Additional Extra Cost Options sheet within the 2022 Contributions and Charges Handbook, disseminated to parents around 1st December 2021.

Overview of possible Physical Education Pathways for Years 7 - 12

Year 7	Year 8	Year 9	Year 10	Years 11 and 12
Physical Education	Physical Education	Physical Education	Physical Education	Certificate II in Sports Coaching
		Physical Education Extension	Physical Education Extension	
Australian Football Specialist Program Boys	Australian Football Specialist Program Boys	Australian Football Specialist Program Boys	Australian Football Specialist Program Boys	Certificate II in Sports Recreation – Outdoor Education
Australian Football Specialist Program Girls	Australian Football Specialist Program Girls	Australian Football Specialist Program Girls	Australian Football Specialist Program Girls	Certificate II / III in Sports Recreation (AFL) boys
	Surfing	Surfing	Surfing	
	Soccer Development	Soccer Development	Soccer Development	Certificate II / III in Sports Recreation (AFL) girls
	Basketball Extension	Basketball Extension	Basketball Extension	General Physical Education Studies
		Outdoor Education	Outdoor Education	
			Sports Community Leadership	General Health Studies
			Fitness Education	ATAR Health Studiess

The Arts

Concert Band and Vocal Tuition (10CBVT) Charge $60

This option is not selected via the Course Selection Process run by The College. *The Arts Department manages selection of students for this option. Please contact Nadia Hall, Dean of The Arts for further information on* ***9553 8100****.*

A tutor attends the college weekly to support students interested in performing with an ensemble. Vocal Tuition is provided in school for groups and individuals. Students attend 40 minutes per week, on a rotational basis.

NOTE:
This option is not timetabled as per other courses and therefore will not appear on the student timetable or the Student Billing Sheet. Families will be issued a separate invoice for charges applicable to this option within the course of the year.

Cheerleading (10CHEE) Charge $70

Cheerleading ranges from chanting to intense physical activity for sports team motivation, audience entertainment, or competition based around organised routines. Competitive routines typically range anywhere from one to three minutes, and contain components of tumbling, dance, jumps, cheers and stunting. No previous experience is needed.

Dance (10DAN) Charge $60

This program allows students to explore the world of dance in detail, working on the following warm ups and routines in class:

- *Flexibility;*
- *Endurance and Strength;*
- *Musicality;*
- *Movement Memory Retention;*
- *Dance Space.*

Year 10 students become the Critics, learning skills for review writing, enhancing awareness and attitudes towards dance, the opportunity to explore, interpret and use other media (sound, video, effects etc.) that have come together to combine dance art forms.

Dance - Extension Program (10DANX) Charge $70

Prerequisites:

☑ **Student will be auditioned for this course *or* can continue if they were enrolled in Year 9 Dance Extension.**

The focus is exploring the ***Conventions of dance****. Students are introduced to the language of dance and the works of others. Through practical lessons, they learn safe dance practices, improve their physical competencies and acquire genre specific techniques.*

The introduction of performance qualities and etiquette is integral to their development as performers. The elements of dance and processes of choreography are explored, and students solve structured choreographic tasks to produce works for performance. They investigate ways to document their thinking and working practices to resolve personal ideas and refine reflection and decision making skills.

Students identify and explore design concepts which enhance the entertainment value of dance and place in its social, historical, political and economic context.

Design and Sculpture (10DESC) Charge $85

Students develop their skills in using a range of clays and associated materials, such as glazes and will typically complete three major projects over the course of the year. Students will create a reductive sculpture. They will also use the pottery wheel and investigate the world of ceramics. Towards the end of the year, students will have the freedom to devise their own clay project in negotiation with the teacher, which allows them to explore the clay skills they have developed during their art studies.

All Visual Arts courses include drawing and design, plus some art theory. Year 10 students examine the work of an artist and/or movement that relates to their production work. They will be introduced to Clay Art throughout history and will refine their critical analysis skills.

Drama (10DRA) Charge $40

The major focus of this course is on developing improvisation and scripting skills as a foundation for further studies in drama and theatre. The emphasis is on practical experience in developing creativity, and appreciating theatre through improvisation forms in the history of drama and theatre. The application of skills developed will be used to build group devised plays. This extends to play writing and development of character.

Drama - Extension Program (10DRAX) Charge $70

Students have the opportunity to explore storytelling techniques, physical theatre and experiment with the complex skills of mask work. Practitioner based script work gives students an insight into the world of Stanislavski and Brecht, while a performance of a scripted monologue of their choice, builds the confidence needed to be a successful performer.

Throughout the year, students also have the chance to attend inspirational professional theatre productions to broaden the imagination and encourage the constructive analysis required for Upper School courses.

Media (10MED) Charge $55

Students will develop their skills in creating and producing short media works – including music videos, short films and posters. They will work independently and in small groups, learning production skills and using a range of high-quality equipment. Using Adobe software including Premiere Pro, students will edit their footage into a meaningful creation, showcasing their ability as a director, cinematographer, editor and producer.

Media - Extension Program (10MEDX) Charge $60

Prerequisites:

☑ **Student must be enrolled in GAT or Extension English or have achieved a B grade in Media Year 9 to be considered for this course.**

Students will explore media arts through representation, manipulation of genre, media conventions and analysis of media artworks. Students will work independently and in small groups, learning production skills and using a range of high-quality equipment. Throughout the year students will create both music videos and short films. Using Adobe Premiere Pro, they will edit their recordings and footage, making artistic choices in post-production that will shape the look of their pieces. Along the way students will learn how to critically analyse visual texts, and understand the social, cultural and historical influences of media arts. There may be opportunities to enter their work into competitions.

Music (10MUS) Charge $55

Students will be required to do the following: learn to read and write music, learn basic chord and rhythm skills on guitar, bass, drums and keyboard, participate in whole class singing activities, participate in song writing, recording and learning and performing music from a variety of genres. Students have time to form their own groups that they will rehearse and perform with during class time.

Music - Extension Program (10MUSX) Charge $60

This program caters for students with specific abilities in music. It is designed for students interested in exploring in greater depth the following areas of Music study: Composition, Musicology and Performance.

When students engage in Music Extension, they develop the capacity to communicate complex music ideas through their specialisation. Because music is a unique means of expression, of knowing and communicating experiences, it makes a profound contribution to personal, social and cultural identities. Students become adaptable and innovative problem solvers, making informed decisions and, as inquirers, develop their ability to deconstruct and critically evaluate. They sharpen their sensitivity and perception, raise their level of appreciation, and expand their musical horizons. The discipline and commitment of music-making builds a student's self-esteem, independence and personal motivation. Whether for career, commercial or leisure needs, students will have the opportunity to gain the basis for a lifelong engagement with music.

Instrumental Music Schools Service (10IMSS) Charge $40

This option is not selected via the Course Selection Process run by The College. *The Arts Department manages selection of students for this option. Please contact Nadia Hall, Dean of The Arts for further information on* ***9553 8100****.*

Students learning an instrument through the Instrumental Music Schools Services (IMSS) are required to learn music theory by enrolling in Classroom Music. Performing and rehearsing in the Comet Bay Concert Band is also a compulsory requirement of IMSS students.

NOTE:
This option is not timetabled as per other courses and therefore will not appear on the student timetable or the Student Billing Sheet. Families will be issued a separate invoice for charges applicable to this option within the course of the year.

Visual Art (10ART) Charge $85

This course is designed for those students who enjoyed Year 9 Visual Art and would like to develop their skills in a wider variety of Visual Art studio areas. Students considering studying ATAR Visual Art in Year 11 are strongly advised to study Visual Art in Year 10, preferably in the Extension pathway.

Students will refine their observational drawing skills and typically complete three major projects over the course of the year including a drawing task (the human figure and/or portraiture), a sculpture, an acrylic or oil painting, and printmaking.

All Visual Arts courses include drawing and design, plus some art theory. Students examine the work of an artist and/or movement that relates to their production work. They will continue to develop and refine their critical analysis skills.

Visual Art - Extension Program (10ARTX) Charge $95

Prerequisites:

☑ **Entry into the Visual Art - Extension Program is by application only. Please contact Nadia Hall, Dean of The Arts for further information on 9553 8100.**

☑ **Students in Year 9 Visual Art - Extension program can continue in Year 10 Visual Art - Extension**

This course is designed for students who are serious about art, with talent and interest in Visual Art. Students considering studying ATAR Visual Art in Year 11 are strongly advised to study Visual Art in Year 10, preferably in the Extension pathway.

Visual Art Extension students will refine their observational drawing skills beyond the level offered in the General pathway. Students typically complete three major projects over the year including a life-drawing task, a sculpture, and an oil painting (portraiture). Students in this course also participate in excursions, incursions and work on projects with visiting artists when the opportunity arises.

All Visual Arts courses include drawing and design, plus some art theory. Students examine the work of an artist and/or movement that relates to their production work. They will continue to develop and refine their critical analysis skills.

Overview of possible The Arts Pathways for Years 7 – 12

<table>
<tr><th>Year 7</th><th>Year 8</th><th>Year 9</th><th>Year 10</th><th>Year 11 and 12</th></tr>
<tr><td>Music</td><td>Music</td><td>Music</td><td>Music</td><td rowspan="2">Certificate II in Music

Certificate III in Music</td></tr>
<tr><td>Music Extension</td><td>Music Extension</td><td>Music Extension</td><td>Music Extension</td></tr>
<tr><td>Drama</td><td>Drama</td><td>Drama</td><td>Drama</td><td rowspan="2"></td></tr>
<tr><td>Drama Extension</td><td>Drama Extension</td><td>Drama Extension</td><td>Drama Extension</td></tr>
<tr><td rowspan="2">Visual Art</td><td rowspan="2">Visual Art</td><td>Clay</td><td>Design and Sculpture</td><td rowspan="3">General Visual Art

ATAR Visual Art</td></tr>
<tr><td>Visual Art</td><td>Visual Art</td></tr>
<tr><td>Visual Art Extension</td><td>Visual Art Extension</td><td>Visual Art Extension</td><td>Visual Art Extension</td></tr>
<tr><td rowspan="2">Dance</td><td rowspan="2">Dance</td><td>Dance</td><td>Dance</td><td rowspan="3"></td></tr>
<tr><td>Cheerleading</td><td>Cheerleading</td></tr>
<tr><td>Dance Extension</td><td>Dance Extension</td><td>Dance Extension</td><td>Dance Extension</td></tr>
<tr><td rowspan="2">Media</td><td rowspan="2">Media</td><td>Media</td><td>Media</td><td rowspan="2">Certificate II in Creative Industries (Media)

General Media Production and Analysis

ATAR Media Production and Analysis</td></tr>
<tr><td>Media Extension</td><td>Media Extension</td></tr>
</table>

Technologies - Home Economics

In the Home Economics area, Year 10 students will develop skills studied in Year 9 to further extend their practical skills in childcare, textiles and foods in preparation for Upper School Courses of Study.

Caring for Children (10CFC) Charge $100

This course involves working with young children, developing activities and the observation of children through stages of development. Kindergarten activities, leading regular playgroup or day care, child development from birth to 5 years are examined.

Practical activities may include the preparation and serving of food for toddlers, making toys and musical instruments. Real life baby simulators are used to provide real life and practical awareness of taking care of babies.

Fashion and Style (10FASH) Charge $120

This is a creative yet challenging course that looks at many aspects of fashion and design including safety, sustainability practices, design, production and evaluation. Students will develop their sewing skills on the machine, as well as expand on their ability to create and produce quality products. Students will be exposed to the complex design process of responding to a design brief, selecting appropriate materials and following a time line. Let your imagination and innovation be unleashed!

Food Technology (10FTEC) Charge $110

This course is an irresistible Australian culinary adventure, inspired by global influences. Students gain knowledge about nutrition and how it links to a healthy lifestyle. Basic local food commodities are the focus of each week and students explore the factors that influence their food choices. Students prepare meals suitable for breakfast, lunch and dinner in a hospitality grade commercial kitchen. The course culminates with a design task of preparing a celebration 3 course meal for selected guests.

Overview of possible Home Economics Pathways for Years 7 - 12

Year 7	Year 8	Year 9	Year 10	Years 11 and 12
Home Economics	Home Economics	Caring for Children	Caring for Children	General Children, Family and the Community
		Fashion and Textiles	Fashion and Style	General Materials Design and Technology – Textiles
		Food Science	Food Technology	General Food Science and Technology

Technologies - Design Technologies

Please note that set costs cover all materials used in the standard tasks set for Design Technology courses. However, students will be required to pay for materials where their designs go beyond the quantities or types of materials that are standard to the courses.

CAD/CAM (10CAD) Charge $120

CAD/CAM (Computer Aided Design/Computer Aided Manufacturing) is an exciting STEM course that allows students to use their creativity to develop solutions to real world problems, needs and opportunities.

Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) allow students to take an idea and turn it into reality faster than using manual production techniques and to a much higher standard. During the CAD/CAM course students will start drawing in 2 dimensions and move on into 3 dimensional drawing.

Computer Aided Manufacturing facilities at Comet Bay College include subtractive rapid prototyping machines like CNC mills, laser cutters and plasma cutters for cutting metal. The recent explosion onto the market of affordable 3D printers means that students will also be able create 3D drawings and produce them. Some of the work will require design and planning using the Technology Process with literacy and numeracy skills consolidated in practical applications such as quantity and cost estimations.

The software used in the CAD/CAM course is industry standard and provides students with a workplace ready skill and the ability to easily move from one software platform to another in the industry. The AutoCAD software taught in the course is the standard in industry, TAFE and University, giving student an edge in further education and training.

Students will be exposed to current manufacturing techniques including CNC machining, CNC laser and plasma cutting and 3D printing.

Drone Introductory (10DRO) Charge $120

Drones are a part of our lives in the 21st century, being used for a large number of commercial applications as well as being a common recreational tool. This course will introduce students to the world of drone flying, using simulators, micro drones, and camera drones. Drone racing will be the focus of the majority of the program, giving students a focus for improving their flying skills. There will be some focus on drone engineering, looking at how a basic micro racing drone is assembled and upgraded. We will also look at the basic laws regarding drone flying, looking at how these apply to a recreational or hobby pilot in order to ensure we always fly legally and safely.

Electrical (10ELEC) Charge $120

This course provides students with an introduction to the electrical trade field. Students develop knowledge of electrical theory and principles as well as construct electrical circuits, installation, solder electronics circuits and use test equipment.

Electrical will provide a solid foundation and creates opportunities for students who wish to work with the latest in computer technology, software, control systems, building automation, audio-visual technology and electronic components and appliances.

Engineering - Mechatronics (10ENGM) Charge $120

This is an exciting STEM course that focuses on solving problems and overcoming challenges using technology focused solutions. Our course will foster the students creativity, practical and problem solving skills and turn ideas into reality by applying lateral thinking to develop solutions to real world problems, needs and opportunities.

Students will develop skills and knowledge in the electro-technology field, robotics, coding and Computer Aided Drawing (CAD). Students will have the opportunity to develop solutions using innovative Computer Aided Manufacturing (CAM) technologies such as, microcontrollers, 3D printers, Laser cutters and CNC mill to help you produce solutions.

Mechanics (10MEC) Charge $120

The course will cover the operation of multi cylinder engines. Students will learn about the operation of petrol and diesel engines in both two stroke and four stroke configurations. They will also learn about systems that operate in unison with single and multi-cylinder engines, such as, power generation, pumping of fuel and lubricant.

Students will also learn about some basic automotive components such as brakes, steering, gearing, clutches differentials etc. Students will produce a work package from theory lessons that will serve as a valuable future reference, both in and out of school.

As in all workshop courses students will be required to adhere to Occupational Health and Safety practices at all times. These practices include but are not limited to correct footwear and safe behaviour.

Metal Technology (10MET) Charge $120

This course introduces students to the manipulation of metals using a wide range of tools, processes, materials and systems. The processes to be developed will include but not be limited to, fuel, gas and electric welding processes, forging, machining, fitting, drilling, grinding and polishing of a range of metals.

Some of the work will require design and planning using the Technology Process with literacy and numeracy skills consolidated in practical applications such as quantity and cost estimations. Health and Safety aspects will be taught and reinforced at all times. Students will learn how to conduct a risk assessment and job safety analysis in a range of industrial settings.

Wood Technology (10WOOD) Charge $120

This course introduces students to the manipulation of wood and wood products using a wide range of tools, processes, materials and systems. The processes to be developed will include but not be limited to, biscuit joining of boards and frames using a range of adhesives, use of pneumatic and electric tools.

Some of the work will require design and planning using the Technology Process with literacy and numeracy skills consolidated in practical applications such as quantity and cost estimations. Health and Safety aspects will be taught and reinforced at all times. Students will learn how to conduct a risk assessment and job safety analysis in a range of industrial settings.

Overview of possible Design Technologies Pathways for Years 7 – 12

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<tr><th>Year 7</th><th>Year 8</th><th>Year 9</th><th>Year 10</th><th>Years 11 and 12</th></tr>
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General Materials Design and Technology – Metal</td></tr>
<tr><td>Metal Technology</td><td>Metal Technology</td></tr>
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<tr><td>Electrical</td><td>Electrical</td><td rowspan="3">General Engineering-Mechanical

Drones (endorsed program)</td></tr>
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<tr><td>CAD/CAM</td><td>CAD/CAM</td><td>General Materials Design and Technology – Wood

General Materials Design and Technology – Metal

General Engineering-Mechanical</td></tr>
</table>

Technologies - Digital Technologies

Artificial Intelligence (10AI) Charge $120

This course will introduce you to the fundamentals of what is involved in creating 'smart' devices and machines. It will explore how these devices sense what is around them and how they make decisions based on what they sense. It will investigate what it means to be 'autonomous' and how science and technology is on the verge of making the giant leap towards truly autonomous robots, ones that will be able to interact with humans and learn just like humans. We will also explore the ethics of robotics and what they should and should not be able/allowed to do. In a world where these 'super smart' machines are on the way it is good to know how it is done.

Business Management and Enterprise (10BME) Charge $35

This course aims to expose students to the role of business in our society, covering such topics as:

- *Industries;*
- *Marketing;*
- *Contracts and rights;*
- *Employment – rights and responsibilities.*

The course also includes making students aware of the cost of independent living (life skills) covering such topics as:

- *Budgeting – includes covering utilities;*
- *Insurance costs;*
- *Wants versus needs;*
- *Financial decision making such as the use of credit cards.*

Students complete this course using software applications as a tool for production – please note this is not a secretarial course.

Computer Science (10CSC) Charge $50

This course is useful to all students - those who will study or work with computers, those who desire a general knowledge of computers, or those who are interested in computer science as it applies to fields of employment.

This course will cover a basic understanding of computer systems, computer component, flowcharts and research topics of interest in the world of computers and, an introduction to the role that computers play in today's society. This course has been designed around the following essential understandings:

- *Technology is a tool in our everyday life;*
- *Technology helps us retrieve and present information;*
- *Technological progress presents new possibilities and challenges.*

The computer curriculum covers the following topics: computer hardware, word processing, spreadsheets, database, multimedia (animation and graphics), Internet usage, computer ethics and safety, and programming (algorithms). This course inspires students to exercise both the creative and logical hemispheres of the brain. Through fun and challenging projects, students will use their imaginations, hone their planning and problem solving skills, learn how to use media tools and discover fundamental concepts pertaining to the use of computer in society.

Students will develop skills in problem solving and programming in future studies in Applied Information Technology / Computer Science and will be given the opportunity to demonstrate high levels of design and creativity for future studies in Photography / Graphic Design.

Design Photography (10DESP) Charge $110

The focus for this course is the study and application of basic composition techniques and the application of design principles in photographical works using digital photographic equipment and state of the art software. Students understand that photography is a discipline area with its own history, traditions, styles and techniques.

Students are introduced to composition elements and design principles and photography design processes and practice. They are introduced to the design process from the moment of ideation (forming ideas) to the final making and presentation of final prints (photographs). Students will learn a range of techniques from landscape designs to portrait styles demonstrating their abilities to effectively use light, equipment, materials and technologies to compose and design their photographs.

In this course, students will explore the latest developments in digital photography. Students will utilise a variety of software packages, including Photoshop and InDesign and will be introduced to the latest SLR Camera technology. Legal and ethical issues as they relate to the use of media and information sharing will be addressed.

Graphic Design Technology (10GRD) Charge $60

This course engages students in manual and computer-based forms of image generation and manipulation and develops knowledge of the wide application of graphics in a variety of contexts and an ever-increasing range of vocations.

Students will develop an understanding of the significance of graphical communication and the techniques and technologies used to convey technical and non-technical ideas and information.

Students will engage in the following outcomes:

- *Use graphics conventions, standards and procedures in the design, production and interpretation of a range of manual and computer-based graphical presentations.*
- *Select and apply techniques in the design and creation of computer-based presentations and simulations to communicate information.*
- *Apply Occupational Health and Safety (OHS) practices and risk management techniques to the work environment.*
- *Appreciate the nature and scope of graphics in industry and the relationships between graphics technology, the individual, society and the environment.*

Overview of possible Digital Technologies Pathways for Years 7 - 12

<table>
<tr><th>Year 7</th><th>Year 8</th><th>Year 9</th><th>Year 10</th><th>Years 11 and 12</th></tr>
<tr><td rowspan="6">Digital Technology</td><td rowspan="6">Digital Technology</td><td>Design Photography</td><td>Design Photography</td><td rowspan="2">General Graphic Design

General Photography</td></tr>
<tr><td>Graphic Design Technology</td><td>Graphic Design Technology</td></tr>
<tr><td>Computer Science Robotics</td><td>Computer Science</td><td rowspan="2"></td></tr>
<tr><td>Artificial Intelligence</td><td>Artificial Intelligence</td></tr>
<tr><td>Business Management and Enterprise</td><td>Business Management and Enterprise</td><td>General Career and Enterprise

Certificate II Workplace Skills</td></tr>
</table>

Others

Criminology (10CRIM) Charge $40

Preferred prerequisites:

☑ **Minimum C Grade in Year 9 HASS General**

In this course, students will be introduced to how the community responds to crime, as well as the types of crime that exist. Students will be gaining an advanced understanding of the Australian legal system, specifically how a law impacts the society and influences the way criminals act. The course will develop to show how social influence and deindividuation affects people - being influenced through friends and military orders. Through the use of practical case analysis, students will be introduced to the court trial process and have projects to complete exploring different aspects of cyber-crime and war crimes – linking with a complete mock-trial investigation. Ultimately, this course will prepare students for senior school HASS electives - incorporating a range of politics and law, history as well as psychology.

Criminology - Extension (10CRIX) Charge $40

Preferred prerequisites:

☑ **Year 9 HASS Teacher Recommendation; OR**

☑ **Minimum B Grade in Year 9 HASS General; OR**

☑ **Minimum C Grade in Year 9 HASS Extension**

This course covers all components of Criminology with an added focus on the UN court of Justice and current issues with investigating war crimes.

Overview of possible Criminology Pathway for Years 7 - 12

<table>
<tr><th>Year 7</th><th>Year 8</th><th>Year 9</th><th>Year 10</th><th>Years 11 and 12</th></tr>
<tr><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2">Criminology</td><td>Criminology</td><td rowspan="2">General Politics and Law
General Psychology
ATAR Psychology
ATAR Modern History</td></tr>
<tr><td>Criminology Extension</td></tr>
</table>