



Christ Church Grammar School

Year 11, 2021 Subject Selection Information Booklet

The Careers Counsellor, your Tutor and your Head of House will discuss your subject selections with you.

Your parents have received information from your teachers about your progress in your Year 10 courses and their recommendations for your study of subjects in Year 11.

An upcoming important event is your Subject Selection Interview in Week 7/8/9/10.

This Subject Selection Information Booklet should be viewed in conjunction with the Subject Selection Interview Preparation Booklet, which needs to be printed and brought to the Subject Selection Interview in Week 7/8/9/10.

The initial online subject selection will need to be completed and submitted by **Friday 3 July**.

You can make changes to your selected subjects until **Wednesday 29 July**.

Subject selection timeline

1. Terms 1 and 2

Ms Jody Clarke completes a unit on careers with Year 10 students in Health and Wellbeing classes, discussing career decision-making, work values, job investigation and upper school subjects. The Director of Studies and Assistant Director of Studies brief students on the selection process.

2. Monday 25 May

The following documents are made available to parents:

- Year 11 2021 Subject Selection Information Booklet via email
- Year 11 2021 Subject Selection Interview Preparation Booklet via email
- Teacher judgements of prerequisites met via parent portal

3. Wednesday 27 May

Year 10 Parent Information video link made available to parents.

4. Friday 5 June

The following documents are made available to parents:

- Student Profile - Assessment of individual strengths and weaknesses

5. Monday 8 June – Wednesday 1 July

Individual interviews with Year 10 boys to discuss subject choices. Boys must bring with them their completed Year 11 Subject Selection Interview Preparation Booklet. Interviews are held with Head of House, Careers Counsellor and (for boarders) their Boarding Co-ordinator. Parents will receive an email outlining the date and time of this meeting. The meeting will either take place via a webportal or in person (in line with current Government regulations). Copies of each boy's current marks will be available for reference.

6. Friday 3 July

Closing date for initial subject selections.

7. Wednesday 29 July

Closing date for changes to subject selections. The 2021 timetable is developed from these selections.

Some subjects may be run at MLC and some may have MLC girls enrolled. Parents and boys will be advised later in the year if a selected subject is to run at MLC.

8. Later Term 3 and Term 4

Subject changes permitted where it can be facilitated by the timetable. Please contact the Studies Office directly to make any changes.

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Career types

What parents can do to help with subject selection

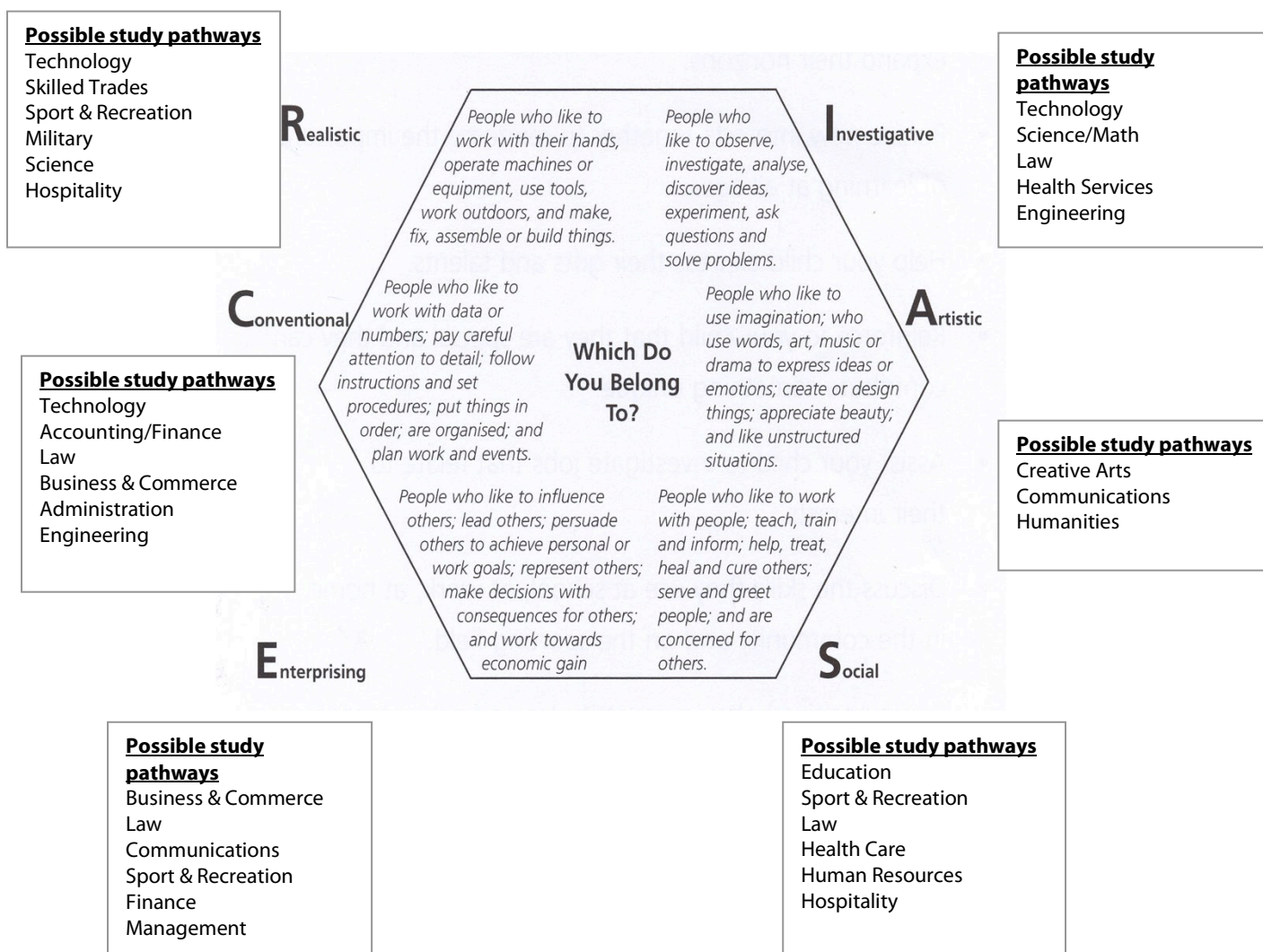
Your son is the most important person in this process and should be the one who makes the final decision. As parents, you can help by encouraging your son to work through each of a series of steps toward making a decision. Each step involves exploring options.

What boys can do to select subjects effectively

Read through the next two pages and try to address the questions as best you can. There is no need for you to write any responses to questions in this section.

The way to identify your career type is by exploring the following six career categories. It works on the belief that all types of work can be categorised within these six areas and by selecting the area(s) that is (are) most suited to your personality, you are more likely to find career satisfaction.

Based on John Holland's Career Theory.



For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Step 1: Asking basic questions

- What am I interested in?
- What am I good at?
- Would I like to work indoors or outdoors?
- Would I like to work with my hands or with words and figures?
- Would I like to work in a team or by myself?

(You have already covered some of this in the Year 10 Career Education Course and it may be a useful reference.)

Step 2: Exploring the career interest area

- What jobs are available in this career area?
- What do these jobs involve?
- What do people who work in these jobs say about their work?

Step 3: Looking at specific jobs in the career interest area

- What qualifications are needed for this job?
- What personal qualities are required?
- What are the job prospects?
- What are the conditions of work? (place, time, travel, holidays)
- How much will I be paid?
- What prospects are there for promotion?

Who you can talk to

The Careers Counsellor, Ms Jody Clarke, will be able to give you career advice and advice about the subjects that you select in Years 11 and 12. When you choose your subjects you will need to make sure that your choices match the career choices that you want to make. Ms Clarke will help you with information related to:

- subjects required for entry to university (in WA, elsewhere in Australia or overseas)
- subjects related to careers/occupations
- relevant subjects for post-secondary courses at Registered Training Organisations (RTOs), for example TAFE and private providers.

There are other people apart from the counsellor who can assist you to make informed decisions. They could include:

- subject teachers, tutor, Head of House
- parents
- friends
- advisers from TAFE and universities and training providers
- students who are currently studying the subjects that interest you
- employers or people within an industry or organisation that interests you
- role models or successful people in the career of your choice.

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

For more information on courses and careers

Please use any and all of the following for further information:

- **Careers Counsellor** – Ms Jody Clarke, 9442 1604
- **Department of Training and Workforce Development: Career Centre**,
<http://www.careercentre.dtwd.wa.gov.au>
- **SCSA Year 10 Information Handbook**
<http://k10outline.scsa.wa.edu.au/home/resources/year-10-information>

Useful Websites:

www.myfuture.edu.au – offers career information that assists with career planning and pathways

www.gooduniversitiesguide.com.au/ - Australian university course comparison website

www.gooduniversitiesguide.com.au/careers-guide – job descriptions to help find the right career for you

www.jobsearch.gov.au - a website that connects job seekers with employers

www.careercentre.dtwd.wa.gov.au – Job and career advice specific to Western Australia

www.joboutlook.gov.au – has useful information about long-term job prospects

For detailed information on Year 11 Courses visit the School Curriculum and Standards Authority website at:

<http://senior-secondary.scsa.wa.edu.au>

For information on University Admissions, visit the Tertiary Institutions Service Centre (TISC) at:

www.tisc.edu.au

For information on TAFE Admissions, visit TAFEWA at:

www.tafe.wa.edu.au

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

ATAR pathway - subjects

This section describes the subject options available to students who are seeking to receive an ATAR at the end of Year 12. This is required for direct entry into university and is sought by many of our students.

Please use this section as a rough guide to which options are suitable for you. It is not prescriptive; nevertheless, it will give a clear indication of what would be an appropriate / inappropriate subject choice.

The short descriptions of courses which follows are designed to give you an overview of each course. Further detail is available in the syllabus document for each subject, which can be found at <http://senior-secondary.scsa.wa.edu.au>.

Students studying an ATAR pathway **may** choose one or two of their six subjects from the 'Non-ATAR pathway' section of this document. Please find these subjects listed later in this booklet. Study of one of such subject is recommended in cases where a boy is not confident that he will be able to handle the workload of six ATAR subjects. Study of two general subjects is recommended in few circumstances.

On the following pages, every subject being offered is listed, grouped by learning area.

Art

Students may choose to study one or more Art based subjects in Year 11 and 12, even if they did not study an Art based subject in Year 10. Previous study would, however, be an advantage.

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
Any Art based subject and English	A, B, C*	Visual Arts ATAR and/or Design ATAR and/or Media Production & Analysis ATAR
Any subject	any	Visual Arts General and/or Design General (see the 'Non-ATAR Pathway' at the end of this booklet)

* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.

Visual Arts ATAR engages students in traditional, modern and contemporary media and techniques within a broad range of art forms. **Visual Arts General** teaches similar concepts in less detail, placing a greater emphasis on the practical elements of the course.

Design ATAR allows students to develop a competitive edge for current and future industry and employment markets. Design will be studied within the context of Digital Photography or Graphics. **Design General** teaches similar concepts in less detail, placing a greater emphasis on the practical elements of the course.

Media Production & Analysis ATAR develops students' skills to make and understand traditional and emerging media including film, photography, newspapers, magazines, television and emerging multimedia technologies.

Contact
Ms Pam Yordanoff
Head of Art

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Computer Science

Students may choose to study one or more Computer Science based subjects in Year 11 and 12 even if they did not study a Computer Science based subject in Year 10. Previous study would, however, be an advantage.

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
UNSW High School Computing	Pass	Computer Science ATAR Year 12 (accelerated)
Cyber Security <u>or</u> Advanced Software Development	A, B, C*	Computer Science ATAR and/or Applied Information Technology ATAR
Any subject	Any	Computer Science General (see the 'Non-ATAR pathway' at the end of this booklet)

* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.

Computer Science ATAR focuses on the fundamental principles, concepts and skills required in the development of computer systems, including developing software and connectivity between devices. The course allows students to apply their knowledge through the development of a relational database system and various software development projects. **Computer Science General** teaches similar concepts in less detail, placing a greater emphasis on the practical skills involved in developing a system and setting up a home network.

Applied Information Technology ATAR teaches students the skills and principles related to the use of digital technologies in a responsible and informed manner. Students will gain an understanding of computer systems and networks and learn strategies to solve information problems using various technologies.

Contact
Mr Chris Anderson
Head of Computer Science

Design & Technology

Students may choose to study one or more Design & Technology based subjects in Year 11 and 12 even if they did not study one in Year 10. Previous study would, however, be an advantage.

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
Any D&T subject and Mathematics	A, B, C*	Engineering Studies ATAR and/or Materials Design & Technology ATAR (Wood)
Any D&T subject	A, B, C*	Materials Design & Technology ATAR (Wood)
Any D&T subject and Personal cooking experience	A, B, C*	Food Science & Technology ATAR
Any subject	Any	Marine & Maritime Studies General and/or Materials Design & Technology General (Wood or Metal) (see the 'Non-ATAR pathway' at the end of this booklet)
* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.		

Engineering Studies ATAR is a practical subject in which students design, manufacture and program mechatronic devices. Learning activities include working with basic electronic components, computer aided design and manufacture in 2D and 3D, mechanisms and introductory computer programming. The theoretical part of the course is based on mathematical rules and general engineering principles that support the activities mentioned above.

Food Science & Technology ATAR is a practical subject in which students explore innovations in science and technology and changing consumer demands. It leads students to develop their interests and skills through the design, production and management of food-related tasks. They develop knowledge of the sensory, physical, chemical and functional properties of food and apply these in practical situations. Students undertaking this course would benefit from having experience in cooking within the home environment.

Marine & Maritime Studies General is a practical subject which allows students to develop and improve skills in boating, sailing, snorkelling and diving while acquiring an understanding of marine environments and oceanography. Students also learn and apply the principles of watercraft design, construction and maintenance.

Marine & Maritime Studies ATAR is a subject in the Science learning area. Information about this course can be found under **Science** (pg. 14-15)

Materials Design & Technology ATAR (Wood) is a practical subject in which students learn to manipulate materials, tools and machinery to produce quality products in resistant materials. A major emphasis is on students producing a comprehensive design folio and practical projects of their own choosing. This is studied in the context of wood.

Materials Design & Technology General teaches similar concepts in less detail, placing a greater emphasis on the practical elements of the course and a lesser emphasis on design. This course may be studied in either or both the wood and/or metal contexts.

Contact
Mr Alec Barbour
Head of Design and Technology

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Drama

Students may choose to study Drama as a subject in Year 11 and 12 even if they did not study Drama in Year 10. Previous study would, however, be an advantage.

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
Drama or English	A, B, C*	Drama ATAR
Drama or English	D, E	Drama ATAR not recommended
* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.		

Drama ATAR engages students in practice and theory as students study, design and produce theatre. The subject includes improvisation and play building to create original drama and interpretation of a range of scripted texts. Students engage in the production process including acting, set, costume, sound, lighting, and multimedia.

Contact

Mr Gregory Jones

Acting Head of Drama

English

Every student must study one English subject. It is the only compulsory subject.

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
English	A, B, C*	Literature ATAR or English ATAR
English Support	Any	English General (see the 'Non-ATAR pathway' at the end of this booklet)
English (Additional Language)	A, B, C*	English as an Additional Language/Dialect ATAR
* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.		

English ATAR and **Literature ATAR** teach students about the English language and its literature using a range of texts. In English, these texts are novels, plays and poetry along with media texts such as feature films, documentaries and music videos. In Literature, students read and study a range of classic and contemporary texts from the genres of poetry, drama and prose fiction. Both subjects require analysis of unseen texts in their examinations.

English General focuses on everyday communication. Students use written, oral, multimodal and digital forms to comprehend and create a range of different text types.

EAL/D ATAR (English as an Additional Language/Dialect) is designed as an alternative for students who speak another language or dialect as their first or 'home' language. Students need to apply to the School Curriculum and Standards Authority for eligibility to study this subject in Year 12.

Contact

Mr Neil Walker

Head of English

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Humanities

Students may study any number of Humanities subjects. Where students have not yet studied the selected subject in Year 10, we recommend that the results they attained in the subject in Year 9 be considered as a guide for their selections. These selections can be reviewed as units are completed and changes made at a later date if necessary. More information about individual Humanities subjects is available at <https://www.ccgs.wa.edu.au/wp-content/uploads/2018/05/HUMANITIES-YEAR-11-ATAR-SUBJECTS-002.pdf>

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
Commerce <u>or</u> Investing & Enterprise	A, B, C*	Accounting & Finance ATAR and/or Business and Management Enterprise ATAR and/or Economics ATAR
History <u>or</u> Global Perspectives	A, B, C*	Ancient History ATAR and/or Modern History ATAR and/or Philosophy & Ethics ATAR and/or Politics & Law ATAR
Geography	A, B, C*	Geography ATAR
Any Humanities	Any	Business Management and Enterprise General and/or Geography General (see the 'Non-ATAR pathway' at the end of this booklet)
* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.		

Accounting and Finance ATAR engages students in the systems and processes of financial practices and decision-making in a range of business types including small to medium enterprises and reporting entities. Students also engage in ethical, social and environmental issues as they analyse business scenarios and make informed business decisions.

Ancient History ATAR engages students in historical inquiry, revealing various perspectives and interpretations of past events and actions. The focus is on the societies of Ancient Rome and Ancient Greece.

Business Management & Enterprise ATAR focuses on business planning, marketing, growth and opportunities provided for business by technology and the global environment. Through the consideration of real businesses, students examine factors that drive international business developments, the features and traits of successful management and how firms operate strategically to maximise business performance in a global setting.

Business Management & Enterprise General focuses on identifying possibilities and creating opportunities within business environments. Students will learn of the importance of business to individuals and society, how to make sound and ethical business decisions and demonstrate integrity in business activities.

Economics ATAR investigates the choices which all people, groups and societies face as they confront the ongoing problem of satisfying their unlimited wants with limited resources. Students learn about the importance of effective allocation, utilisation and distribution of scarce resources that maximise the wellbeing of society. Economics develops the knowledge, reasoning and interpretation skills that form an important component of understanding individual, business and government behaviour at the local, national and global levels.

Geography ATAR teaches students to investigate the arrangement of biophysical and human phenomena across space in order to understand the interconnections between people, places and environments. Unit 1 investigates Human and Ecological Hazards and Unit 2 investigates Global Networks and Interconnections.

Geography General investigates the Geography of Environments at Risk, investigating regions where people pose threats to the environment as they attempt to meet their needs. The Geography of People and Places unit teaches students about the characteristics of regions and how processes cause them to change. The Geography General course places an emphasis on geographical inquiry, fieldwork and practical skills.

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Modern History ATAR is the study and practice of making meaning of the past with a view to understanding the present. It engages us with the ideas, beliefs and values that shape and influence our lives. In Year 11 the units focus on American Society from World War One to World War Two and the rise and fall of Nazi Germany, while in Year 12 students examine the Russian Revolution and the changing European world since 1945.

Philosophy and Ethics ATAR teaches students how to think rather than what to think. Students are encouraged to analyse, critique and advance arguments in a clear and reasoned manner. These skills are applied to various branches of philosophy including logic, knowledge, science, religion, meaning, human nature, ethics, politics and many others.

Politics and Law ATAR examines the philosophies, principles and values on which societies are governed by developing critical thinking and skills of analysis and evaluation. It aims to develop knowledge of the principles, structures, institutions and processes of political and legal systems, primarily in Australia, but also with reference to the United States of America and North Korea.

Contact
Mr Patrick Parker
Head of Humanities

Languages

Students who choose to study Language subjects are assumed to be continuing from Year 10; students cannot study a language in Year 11 unless they have studied it previously.

There are strict eligibility requirements to study a language in the WACE. The School Curriculum and Standards Authority manages these criteria. Students in Year 10 classes will be provided with the necessary forms and instructions. For further information on eligibility requirements, please contact our Head of Languages, Mr Vinko Shain, on 9442 1636 or vshain@ccgs.wa.edu.au.

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
Chinese	A, B, C*	Chinese: Second Language ATAR
French	A, B, C*	French: Second Language ATAR
Japanese	A, B, C*	Japanese: Second Language ATAR
* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.		

Chinese, French and Japanese: Second Language ATAR allow students to develop their ability to communicate effectively in the chosen language, while developing a deeper appreciation of the foreign culture. Please see the note above about eligibility requirements of languages.

Chinese: First Language ATAR is designed for students with a cultural and linguistic background in Chinese. The course focuses on the interrelationship of language and culture and further enhances the skills students possess to function in an increasingly globalised society and a culturally and linguistically diverse local community. This course is taught after school hours at MLC as a seventh subject (students will still study six timetabled subjects at CCGS in Year 11). There is an additional charge for this course which is paid directly to MLC.

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Chinese: Background Language ATAR course builds on and further develops a student’s language capability through engagement through engagement with the Chinese-speaking communities, locally and overseas, and through the study of contemporary texts, topics and issues. This course is taught after school hours at MLC as a seventh subject (students will still study six timetabled subjects at CCGS in Year 11). There is an additional charge for this course which is paid directly to MLC.

Contact
Mr Vinko Shain
Head of Languages

Mathematics

Students may study one or two Mathematics subjects. The option to study two subjects is only available to students who study both Mathematics Methods and Mathematics Specialist.

Year 10 Subject	Year 10 Result	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
Mathematics Extension	A, B, C	Mathematics Methods ATAR and Mathematics Specialist ATAR
Mathematics Advanced	A grade	Mathematics Methods ATAR and Mathematics Specialist ATAR
	B grade	Mathematics Methods ATAR
	C grade	Mathematics Methods ATAR only after discussion with and agreement of HOD
Mathematics Mainstream	A grade	Mathematics Applications ATAR
	B grade	Mathematics Applications ATAR
	otherwise	Mathematics Essential General (see the 'Non-ATAR pathway' at the end of this booklet)
		Mathematics Essential General
Mathematics Support	Any	(see the 'Non-ATAR pathway' at the end of this booklet)

Mathematics Specialist ATAR is a course designed to develop rigorous mathematical arguments and proofs, and to use mathematical models extensively. It is suitable for students with a strong interest in mathematics, including those intending to study Mathematics, Statistics, Physical Sciences and Engineering courses at university. It must be studied in conjunction with Mathematics Methods. It has been listed by the TISC website as recommended or a prerequisite for Science-based or Engineering degrees.

Mathematics Methods ATAR is a course that focuses on the use of calculus and statistical analysis. It provides a foundation for further studies in disciplines in which mathematics and statistics have important roles. Excellent number and algebra skills are essential for students to be successful. It is useful for students considering Science-based or Engineering degrees after school and has been listed by TISC as recommended or a prerequisite to some Science-based and Commerce degrees.

Mathematics Applications ATAR is a course that focuses on the use of mathematics to solve problems in contexts that involve networks, financial modelling and statistical analysis. It is designed for students whose future studies or employment require general mathematics skills but not calculus. It is a course that will provide good preparation for many university courses not specifically mathematically related.

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Mathematics Essential General is a course that focuses on using mathematics effectively, efficiently and critically to make informed decisions. It provides students with the mathematical knowledge, skills and understanding to solve problems in real contexts for a range of workplace, personal and community settings. This course provides the opportunity for students to prepare for post-school options of employment and further training.

Contact
Ms Megan West
Head of Mathematics

Music

Students who choose to study Music are assumed to be continuing from Year 10; students generally should not elect to study music in Year 11 unless they have studied it previously.

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
Music	A, B, C*	Music ATAR
Music	D, E	Music not recommended
AMEB grades: 5+ in performance, and 4+ in theory		Music ATAR
* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.		

Music ATAR provides students with opportunities to develop and extend their musical understandings, abilities and potential in a range of contexts.

Contact
Mr Kevin Gillam
Head of Music

Physical Education Studies

Students may choose to study one or more Physical Education based subjects in Year 11 and 12 even if they did not study Sports Science in Year 10. Previous study would, however, be an advantage.

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
Sports Science	A, B, C*	PE Studies ATAR and/or
English and Physical Education	A, B, C*	Certificate III in Fitness (see the 'Non-ATAR pathway' at the end of this booklet)
Sports Science, English or Physical Education	Any	PE Studies General and Certificate III in Fitness (see the 'Non-ATAR pathway' at the end of this booklet)
* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.		

Physical Education Studies ATAR focuses on the complex interrelationships between motor learning, psychological, biomechanical and physiological factors that influence individual and team performance. It is the study of Sport Science where students analyse the performance of themselves and others, apply theoretical principles and plan training programs. 30% of the course grade is based on practical performance.

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Physical Education Studies General teaches similar concepts in less detail, placing a greater emphasis on the practical elements of the course.

Certificate III in Fitness consists of theory and practical components with practical application in the CCGS gym setting. It is not an ATAR subject or a General subject and there may be a cost associated with selecting this course. Details of this option can be found in the 'Non-ATAR pathway' section at the end of this booklet.

Contact
Mr Luke Farmer
Head of Physical Education

Science

Students may study any number of Science subjects. Where students have not yet studied the selected subject in Year 10, we recommend that the results they attained in the subject in Year 9, considered in combination with their other Year 10 Science results, can be used as a guide for their selections. These selections can be reviewed as trimesters are completed.

Year 10 Subject	Year 10 Grade	Prerequisites met for subject(s) (for study in Year 11 and Year 12)
Biology	A, B, C*	Biology ATAR and/or Human Biology ATAR and/or Psychology ATAR and/or Marine & Maritime Studies ATAR
Chemistry	A, B, C*	Chemistry ATAR
Physics	A, B, C*	Physics ATAR
* Students who have achieved a low C grade may experience difficulty in further study of the subject at an ATAR level. Please refer to specific teacher recommendations for guidance.		

Biology ATAR highlights, investigates and answers questions about the living world, looking at the changing nature and the complexity of the organism and its surrounding environment. Biology gives us perspectives on ethical, environmental and sustainability issues, contributing to our understanding of the structure and function of organisms, genes and DNA, the theory of species survival and development through evolution, ecosystems, biodiversity and the biotechnological processes that are changing our world.

Chemistry ATAR equips students with the knowledge, understanding and opportunity to investigate structural properties and uses of materials and chemical reactions; and the application of chemistry principles to biological, environmental and industrial contexts. It is recommended that students studying this subject also study Mathematics: Methods or Mathematics: Applications.

Chemistry ATAR Year 12 (accelerated) 2022 is aimed at students who have demonstrated an exceptional level of achievement and work practices across their core subjects, including in Year 10 Chemistry Extension. Students choosing this option will study another accelerated Year 12 subject option in Year 11, for example Computer Science Year 12 (accelerated) and then select Chemistry in Year 12. Students selecting this option in 2022 will need to have worked through the key concepts in the Chemistry Year 11 course independently. Students may select this option only after consultation with the Head of Chemistry and the Director of Studies.

Human Biology ATAR explores what it is to be human – how different body systems such as the nervous and endocrine systems work together to maintain homeostasis; the impact of biotechnological advances on medical interventions; the mechanisms that increase human variation; the effect of the environment on your genome (epigenetics); and the evolution of the human species over time.

For detailed information on Year 11 Courses visit the SCSA website at <http://senior-secondary.scsa.wa.edu.au>

Marine and Maritime Studies ATAR focuses on oceanography concepts and scientific inquiry skills to develop a strong understanding of the interdependence between components of the marine environment. Students conduct research into the safe and sustainable management of the oceans' resources and are also introduced to the world of maritime archaeology. It is expected that students have an affinity with water-based activities and are able to swim 200 metres in flat water.

Physics ATAR involves exploration of the phenomena that explain the world around us. It attempts to find patterns that relate these phenomena from the formation of the universe down to the nature of subatomic particles and everything in between. It is recommended that students studying this subject also study Mathematics: Methods or Mathematics: Applications.

Psychology ATAR is the scientific study of how we think, feel and act. Students utilise major psychology models and theories to answer questions about what motivates people, what influences their development and how this influences the development of society and self. Through scientific knowledge and method, these various models and theories are applied in everyday settings that will help students understand themselves and their world.

Contact
Mr Edward Hogg
Head of Science

Non-ATAR pathway – subjects

This section describes the subject options available to students who are not seeking to receive an ATAR at the end of Year 12.

Students who undertake this pathway are required to undertake a course in English, Mathematics, Career & Enterprise General and a work placement. Study of a certificate course is also recommended. In most cases boys will study English General and Mathematics Essential General.

Please use this section as a rough guide to which options are suitable for you. It is partially prescriptive and is designed to lead students to the greatest chance of success after Year 12. The listed pathways represent typical continuation of study into Year 12. These pathways are the most likely to lead to success.

The short descriptions of courses which follows is designed to give you an overview of each course. Further detail is available in the syllabus documents for each subject, which can be found at <http://senior-secondary.scsa.wa.edu.au>.

Certificate Courses and Workplace Learning

Students studying a Non-ATAR pathway will be required to undertake Workplace Learning in Year 11. The selection of a work placement will be made in discussion with Ms Jody Clarke.

Workplace Learning equips students with knowledge and experience to head confidently into employment, further training and apprenticeships, providing them with a keen understanding of what is valued in a work environment. Students spend a two week block during the year at an allocated workplace to accrue a total of 110 hours over the year, working as directed by their workplace supervisor. This block will be allocated during the examination period where possible.

Certificate courses allow students to gain a qualification while they are still at school. They develop skills and expertise in particular industry areas in preparation for further study at University, TAFE or an apprenticeship programme after Year 12. It is recommended that all students not on an ATAR pathway complete either a Certificate III in Year 11. There may be opportunities in Year 12 for students to continue with their study of these certificate courses. Students studying five ATAR subjects are also able to select the Certificate III in Fitness course to study, however, there may be a cost associated with this.

Certificate III in Fitness

The Certificate III in Fitness, run at CCGS by Daly Fitness, is offered as a timetabled course for Year 11 students. This means that students will not miss classes in other subjects while completing the course. Completion of the Certificate III will qualify students to study the Certificate IV in Year 12.

The Certificate III consists of theory and practical components with practical application in the CCGS gym setting.

Students studying Non-ATAR pathway subjects will be able to nominate this Certificate III course as one of their subjects. Selection of Physical Education Studies General in addition to this Certificate III course is strongly recommended but not compulsory.

Students studying five ATAR subjects are also able to select the Certificate III course, either in conjunction with Physical Education Studies ATAR or without.

Study of the Certificate III in Fitness will require a student to acquire a First Aid Certificate. The first aid course to achieve this certification will be run internally at a cost to parents of approximately \$100.

There may be a charge associated with undertaking this course.

School subjects

Students study English General, Mathematics Essential, Career & Enterprise General and three other General courses, or two General and one Certificate course from this list. There are no prerequisites for any of these subjects.

- English General (mandatory)
- Mathematics Essential General (mandatory)
- Career & Enterprise General (mandatory)
- Business Management & Enterprise General
- Computer Science General
- Design General
- Geography General
- Marine & Maritime Studies General
- Materials Design & Technology General (in either or both Wood or Metal contexts)
- Physical Education Studies General
- Visual Arts General
- *Certificate III in Fitness*

Business Management & Enterprise General focuses on identifying possibilities and creating opportunities within business environments. Students will have the opportunity to understand the importance of business to individuals and society, learn how to make sound and ethical business decisions and demonstrate integrity in business activities.

Career & Enterprise General reflects the importance of career development knowledge, understanding and skills in securing, creating and sustaining work. Students explore the attributes and skills necessary for employment, and identify their personal strengths and interests, and the impact these have on career development opportunities and decisions.

Computer Science General focuses on the fundamental principles, concepts and skills required in the development of computer systems and software, and the connectivity between devices. The course also places an emphasis on the practical skills involved in setting up a home network.

Design General (Photography & Graphics) allows students to foster skills and processes for current and future industry and employment markets. Students will develop the knowledge and skills to understand design principles and processes, analyse problems and devise innovative strategies through projects in the context of photography & graphics.

English General focuses on everyday communication. Students use written, oral, multimodal and digital forms to comprehend and create a range of different text types.

Geography General investigates regions where people pose threats to the environment as they attempt to meet their needs and teaches students about the characteristics of regions and how processes cause them to change. The course places emphasis on geographical inquiry, fieldwork and practical skills.

Marine & Maritime Studies General allows students to develop and improve skills in boating, sailing, snorkelling and diving whilst acquiring an understanding of marine environments and oceanography. Students also learn and apply the principles of watercraft design, construction and maintenance.

Materials Design & Technology General is a practical subject in which students learn to manipulate materials, tools and machinery to produce quality products in resistant materials. A major emphasis is on students designing and producing practical products of their own choosing. This subject is studied within the context of either wood or metal.

Mathematics Essential General teaches students general skills in Mathematics that will help in their everyday life. It enables students to continue to develop numeracy skills which are required for TAFE Engineering and Commerce course, Apprenticeships and employment.

Physical Education Studies General teaches students about anatomical, physiological, psychological, and biomechanical principles and how to apply these to analyse and improve personal and group performances in physical activities.

Visual Arts General engages students in practice and theory while exploring traditional, modern and contemporary media and techniques within a broad range of art forms.

Certificate III in Fitness is described on page 16.