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SUBJECT SELECTION

General Information

Preamble
This booklet has been compiled to assist parents and students to make appropriate decisions about subject choices for Year 10. At Grammar Year 10 is a key year of transition, being the first in the Senior Phase of Learning. To assist students to make the most appropriate choices for Years 11 and 12, all Year 10 courses have been designed to reflect the expectations of Years 11 and 12 in terms of course content and assessment and as such, can generally be considered as an ‘introduction’ to the subject for further study in Years 11 and 12.

Information about individual subjects has been prepared by Heads of Learning Areas. Students are strongly advised to carefully read each subject synopsis provided before making subject choices.

Students and parents are reminded that all senior students graduate under the Queensland system that records end of Year 12 student achievements on a Senior Statement and, if 20 credit points are achieved, they will also be awarded the Queensland Certificate of Education (QCE). At Grammar it is our aim for all students to receive a QCE by the end of Year 12 (refer to the QCCA fact sheet re the QCE at the end of this document).

Be sure to read this booklet carefully and seek further information or assistance from our staff if required. Students and their parents can contact either of the following staff when further advice is needed:

- Mr Simon Davis – Dean of Senior Schooling (sdavis@scgs.qld.edu.au)
- Mr Bill Riddiford – Life Choices Coordinator (briddiford@scgs.qld.edu.au).

Choosing Subjects for Year 10

Students participating in Year 10 at Grammar will study their subjects in the following structure:

- Core subjects of Mathematics (Mathematics Ten OR Mathematics TenPlus, as advised by letter from the Mathematics Head of Learning Area), English, Health and Physical Education and Personal Development, plus Christian Studies for the entire year
- One semester each of three (3) elective subjects (ie six electives for the year); at least two (2) of which must be Science electives, and at least one (1) of which must be a Humanities elective.

Every attempt will be made to ensure that students are able to study their first choice of elective subjects; however, timetable and individual constraints could mean that some students will be asked to reconsider their selections. As an overall plan, choose the subjects:

- you enjoy
- in which you have demonstrated some ability and aptitude
- which will help you reach your possible career pathways
- that will develop skill, knowledge and attitudes useful throughout your life.

Christian Studies

All students experience Christian Studies for the entire year. There is no need to ‘select’ this subject as a student preference, as all students will be timetabled to study this course. Christian Studies comprises three strands:

- Christian understanding and living
- Bible application
- Comparative religions.

Students are given the opportunity to explore the Christian faith, ethics, gender issues and current affairs.

Learning Enrichment

Learning Enrichment is a referral based program offered to students requiring additional academic support. The level of support required and types of programs offered are designed for the needs of the individual student. Students can access learning support before school or negotiate time during lesson time. The program aims to provide students with the opportunity to further develop literacy or numeracy skills and to improve their organisational and time management skills. Additionally, students are given guidance with class work, homework and assignments. Places in this program are limited and will be offered to those students who have the highest needs. If you would like further information on the Learning Enrichment program, please contact the Learning Enrichment Coordinator, Mrs Kelly Brodrick.
Looking to the Future – Recommended Studies

It is important to choose Year 10 subjects wisely, as many are highly recommended courses for further study in Years 11 and 12 (refer to the list at the end of this document). Students who are aware of the areas they wish to study in Years 11 and 12 can select preparatory units to benefit the levels of subject area understanding held on entry to senior courses. Other students may select their elective subjects to further their personal understanding of the subjects they enjoy or have ability in.

School Based Traineeships and Apprenticeships

Students who wish to combine their studies at school with paid employment may choose to undertake a School Based Traineeship or Apprenticeship. Traineeships and apprenticeships are available in a wide range of industry areas including Business, Retail, Hospitality, Information Technology, and in a variety of trade related areas. Negotiations to begin a traineeship or apprenticeship can begin in Year 10. Students wishing to take up a traineeship or apprenticeship are advised to contact the Life Choices Coordinator, Mr Bill Riddiford who will arrange an initial interview. Traineeships and apprenticeships allow students in Years 10, 11 and 12 to work with an employer as paid employees and gain a nationally recognised VET qualification while studying. School based trainees and apprentices usually spend one school day each week at their place of employment. School Based Traineeships and Apprenticeships contribute credit towards the QCE.
BIZINESS & TECHNOLOGY

Accounting, Business Management, Business Technology, Economics, Multimedia, Business & Production, Industrial Technology, Technology Studies & The Built Environment

Contact: Mrs Tania Guteridge (tguteridge@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

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</tbody>
</table>

Electives Available in BUSINESS

Accounting (ACC10)

Accounting is all about money: how to make it and how to manage it. This is a relevant unit, not only for those interested in a career as an accountant, but for all students, as it examines money management in a business context that can be applied to a personal context. The first term of study will focus on the source documents prepared and used by business and on using spreadsheets to calculate figures. The second unit introduces accounting concepts and books relevant to small business. This will be followed up with a computerised accounting unit, with the use of software such as Quick Books.

- Source documents and spreadsheets
- Introduction to accounting for small business
- Computerised Accounting

Business Management (BOM10)

This subject is designed to give students an introduction to small business management. The unit studies the 10 steps of small business set up and students undertake a project to establish their own hypothetical small business. The course also looks at International Business and Ethics & Social Responsibility in Business, and requires students to complete interesting and topical projects for their assessment. The following topics are covered:

- Introduction to small business – planning, marketing etc.
- International business
- Ethics and social responsibility in business or Event Management

Business Technology (BCT10)

This subject is designed to introduce students to ways of communicating in business and using technology for business applications. It is a useful unit for any person, regardless of the career or subject path they intend choosing, as it provides opportunities for completion of practical tasks that build up knowledge relevant to any work environment and computing skills relevant and useful for any subject. It also provides students with team skills developed with their peers while undertaking a culminating project which requires completion of a PowerPoint display and oral presentation. The following topics are covered:

- Written Communication in Business – types of written communication; word processing skills and applications.
- Verbal Communication in Business – how to communicate effectively with team mates and customers; how to put together amazing PowerPoint presentations.
- Event Organisation
Economics (ECO10)

This semester long elective provides students with a basic understanding as to how the economy works and how global events impact on economies around the world. Students will begin by examining Needs, Wants and the Modern Marketplace, followed by an introduction to Economic and Business Systems with a focus on globalisation. The final unit will focus on Global Economic Issues such as poverty. This unit will be assessed via an inquiry-based research project. This subject should be of interest to those students considering Economics as a senior subject option and those interested in a career in business, government or journalism.

Multimedia (MME10)

In this course students will develop and use multimedia technologies in response to digital communication and publishing challenges. This subject has a practical focus, with all of the learning tasks using some aspect of computer technology in the design and/or development of the set task. Students will learn introductory and advanced components of Flash, Web Design, Video and Digital Editing and will explore new and evolving software. The main outcome for this subject has students focused on the basic concepts of design and development of multimedia projects which offer students problem solving skills and production techniques that can be transferred to life outside the classroom. Students will form a good foundation for senior ITS, learning the concepts involved in designing and developing a major multimedia project, beginning with abstract concepts and finishing with a stand alone presentation. The following units are covered:

- Print media
- Audio media
- Animation
- Video editing and production
- Web media
- Developing a multimedia solution

Electives Available in GRAPHICS

Business & Production (GRA10A)

Whether revamping an existing design or developing a new one from scratch, Business & Production creates an exciting and rewarding course specialising in business corporate identity and product design. Business & Production can provide expertise in:

- Logo design, corporate or business identity
- Business packing design
- Ad, postcard magazine, CD, DVD and PC game cover design
- Product design and animation
- Product packaging and labelling
- Conceptual and technical illustration

Programs include Autodesk Inventor, Publisher, PowerPoint, Word, Excel and Paint Shop Pro.

The Built Environment (GRA10B)

Architecture, house design and presentation using the latest industry standard software are the major focus of this unit of work. This course has been designed to create high quality design visualisation using various media available. Students will investigate many features within the home environment including the building, landscaping and the furniture design. Through the conceptual illustrations stage to the computer generated drawings and finally the professional presentation, this course is filled with hands on, design-based curriculum. Programs include Revit Architecture, PowerPoint, Word and Paint Shop Pro.

INDUSTRIAL TECHNOLOGY

Industrial Technology (IND10)

This hands-on unit focuses on practical skill development. Students are guided through the construction process in which they will identify and understand a problem, and select appropriate resources and strategies that may solve that problem. They will then be given a plan enabling them to construct the solution. Students are encouraged to be active participants in invention and innovation. They are exposed to a range of intellectual challenges while developing practical skills associated with hand and power tools, machinery and equipment.

Special Note: Materials are supplied for this course of study. Additional materials may be purchased by the students; this will depend on the type of project being undertaken.
Technology Studies (TEC10)

This unit is designed to give students valuable insight into senior Technology Studies. The Year 10 Technology Studies course requires students to identify and understand a problem, select appropriate resources and strategies that may solve that problem, implement a plan, construct the solution and evaluate the outcome. An emphasis is placed on the planning and development of each student’s project. Students are encouraged to be active participants in invention and innovation. They are exposed to a range of intellectual challenges while developing practical skills associated with hand and power tools, machinery and equipment.

Special Note: Materials are supplied for this course of study. Additional materials may be purchased by the students; this will depend on the type of project being undertaken.
ENGLISH

English

Contact: Mrs Megan Dunstan (mdunstan@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

English → English, English Communication

Special Note: English is a compulsory subject.

English

The English program at Grammar recognises the significance of language and literature studies in developing young people who are socially and culturally aware. Our focus remains our ‘core business’ - the areas of reading, responding, writing, speaking, listening and viewing. Within these areas, students will explore a variety of ways in which their language is used, for a variety of audiences and under many different conditions.

Each unit in Year 10 English is based upon the discussion and reflection of issues examined by students as they further explore the texts of their own worlds and those of different times and places.

Students will examine how documentaries and feature films can create different representations of similar topics and events, and study novels and texts for character discussion, investigation of cultural and social themes, and discussion about the relevance of social issues to students today.
HEALTH AND PHYSICAL EDUCATION

Health and Physical Education

Contact: Mr Paul Cross (pcross@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

Health and Physical Education → Physical Education

Special Note: Health and Physical Education is a compulsory subject.

The Health and Physical Education program implements the “Australian Curriculum: Health and Physical Education: Foundation to Year 10” which was released in July 2013. In accordance with this document, the curriculum at Grammar is shaped by a number of inter-related propositions that make a commitment to:

- Focusing on educative outcomes
- Taking a strength based approach
- Valuing movement
- Developing health literacy skills
- Including a critical enquiry approach

The Australian Curriculum: Health and Physical Education aims to develop the knowledge, understanding and skills to enable students to:

- Access, synthesise and evaluate information to take positive action to protect, enhance and advocate for their own and others’ health, wellbeing, safety and physical activity across the lifespan
- Develop and use personal, behavioural, social and cognitive skills and strategies to promote a sense of personal identity, wellbeing and to build and maintain respectful relationships
- Acquire, apply and evaluate movement skills, concepts and strategies to respond confidently, competently and creatively in a variety of physical activity contexts and settings
- Engage in and enjoy regular movement—a-based learning experiences and understand and appreciate their significance to personal, social, cultural, environmental and health practices and outcomes
- Analyse how varied and changing personal and contextual factors shape understanding of, and opportunities for, health and physical activity locally, regionally, and globally.

These aims are addressed in the two content strands – Personal, social and community health and Movement and physical activity each of which contain content descriptions which are organised under three sub-strands.

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<th>Personal, Social and community health</th>
<th>Movement and Physical Activity</th>
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<tr>
<td>Sub-Strands</td>
<td>• Being healthy, safe and active&lt;br&gt;• Communicating and interacting for health and well-being&lt;br&gt;• Contributing to healthy and active communities</td>
<td>• Moving our body&lt;br&gt;• Understanding movement&lt;br&gt;• Learning through movement</td>
</tr>
</tbody>
</table>

The Grammar Health and Physical Education program will target these aims and some of these content areas by focusing on:

- Constructing Personal fitness programs
- Analysing and evaluating Mental Health programs for teenagers
- Arguing for or against the use of Performance enhancing drugs in sport
- Completing a biomechanical analysis of personal performance

In addition students will participate in a range of sports including Lawn Bowls, Water Polo, Badminton, Touch, Volleyball, Basketball, Tennis, Yoga and Pilates which will further serve as a vehicle for learning.
HOSPITALITY STUDIES

Kitchen Production & Hospitality Studies

Contact: Mrs Carolyn Stafford (cstafford@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

Kitchen Production  →  Hospitality Studies
Food & Beverage Service  →  Hospitality Studies

Kitchen Production (HOS10A)

This is largely a practical unit, with the focus on food preparation and presentation skills. Students will be introduced to ‘Back of House’ and have the opportunity to prepare a range of High Tea foods during practical lessons. They will study: how to standardise recipes and cost foods, correct knife handling techniques, the principles and methods of cookery, specific food preparation techniques related to dietary needs, basic kitchen operations and general knowledge about food production, presentation and storage. Students will also learn how to effectively work in a busy kitchen and be introduced to the pathways involved in this area of the industry. They will study the importance of workplace hygiene and OH&S and implement these practices during practical lessons.

The student’s major assessment item for the semester is to plan and implement a High Tea event for the Sunshine Coast Grammar School community. Students will also be assessed through weekly practical work and an end of semester written examination.

Food & Beverage Service (HOS10B)

This is largely a practical unit, with the focus on food and beverage service, supported with food production skills. Students will be introduced to ‘Front of House’ and practise all aspects of food and beverage service, as well as working ‘Back of House’ to consolidate a wide range of food preparation and presentation skills. Students will study: event management and the process of working with a client to cater for an event, how to communicate effectively with colleagues and customers, dealing with customer complaints, the key attributes required of food and beverage employees, how to market an event, and learn about the pathways and career opportunities related to food and beverage service. They will study the importance of workplace hygiene and OH&S, and implement these practices during practical lessons.

The student’s major assessment item for the semester is to plan and implement a High Tea event for the Sunshine Coast Grammar School community. Students will also be assessed through weekly practical work and an end of semester written examination.
HUMANITIES

Ancient History, Geography, Legal Studies & Modern History

Contact: Mr Mark Lingard (mlingard@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

Ancient History → Ancient History
Geography → Geography
Legal Studies → Legal Studies
Modern History → Modern History

Special Note: It is compulsory to complete at least one (1) Humanities elective.

Ancient History (AH10)

Ancient civilisations built great empires whose influence and impact on many aspects of life have outlived the demise of their own existence.

Initially in this subject students will study the methodology and terminology of the historian and the historian’s use of sources, both primary and secondary. They will also investigate the dynamic and ever-changing role of archaeology through the study of a major archaeological site e.g. the Xian terracotta warriors.

Through a depth study of two major ancient civilisations (China and Rome), students will examine how people lived, how they fought and how they were governed, the significant developments made in the areas of art, architecture, technology, thinking, oral traditions or literature, and finally, the important cultural practices, beliefs, values and customs that impact on people’s way of life.

Students will develop an in-depth study of an ancient civilisation on ONE or more of the following: a significant event, person, group, movement, mystery or discovery.

Geography (GEO10)

The Sunshine Coast is renowned for its natural assets. Whilst our hinterland and its rainforests are spectacular, it is the beautiful, pristine beaches that are the main drawcard. In this subject students will examine the processes that shape our coast, as well as take a closer look at some of the management strategies that have been employed to ensure that its beauty is maintained and protected. This investigation is extended with a field study to local beach areas.

Students will also investigate one of the world’s last frontiers, Alaska. They will study the physical geography of the region as well as its natural resources. Through a series of activities, students will analyse this environment and examine the impacts humans accessing oil here have had on this unspoilt ecosystem.

These two units, with their accompanying assessment tasks, will ensure that students are well prepared for the study of senior Geography, if they so choose.

Legal Studies (LEG10)

By examining the offences of murder, manslaughter and dangerous driving, students will gain an understanding of how our legal system operates. Concepts such as trial by jury, innocent until proven guilty, the burden of proof, offences, defences and punishment will be examined. Students will extend their investigation of the above criminal offences into a discussion of the nature of lawful and unlawful killing, particularly in reference to the issue of euthanasia.

After this investigation of criminal law, students will choose an area of law that interests them and prepare a presentation on this area. Students may select from topics such as negligence, drugs and the law, humanitarian law, sport and the law, internet law, Aboriginal customary law and many others.
Modern History (MHI10)

Did you know that towns and cities from Broome to Sydney came under direct attack during World War II? In the first unit of study in this course students explore the war in the Pacific and how Australia mobilised its forces to help halt the Japanese advance. Students examine the way the war ended and ask the question: Is it ever acceptable to use nuclear weapons?

The second unit explores the history of race relations in Australia and shows how the rights and freedoms of indigenous Australians have altered in the last 100 years.

Finally, students explore popular culture in Australia. Have you ever wondered about the man behind the Bradman myth, or how AC/DC conquered international music charts or the key figures in Australian fashion in the last 60 years? These are just some of the topics students could explore in their multimodal assignment.
LANGUAGES

French

Contact: Mrs Georgie Richardson (grichardson@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

French → French

Special Note: Students who choose to study a language are required to choose both the Semester 1 and Semester 2 units, representing two of their four elective options.

French (FRE10A & FRE10B)

Students who committed to two semesters of study in French at the Year 9 level, and who are achieving sound success at this level or higher, satisfy the prerequisite for entry into Year 10 French. If students have not completed the full Year 9 course, entry into Year 10 French may only occur after negotiation with the Head of French. Students who undertake these courses develop a wide vocabulary and acquire a strong understanding of all the mandatory grammatical items necessary to be successful in the senior French courses.

Students who do not continue with their French studies in Year 10 are unable to pursue language studies at a senior level (Year 11 and 12) unless under exceptional circumstances.

Language classes incorporate a range of information technology, varied and relevant learning tools and a range of cultural experiences. Staff members are not only experienced, but also passionate when it comes to the teaching and learning of a second language. Topics covered at the Year 10 level may include etiquette, living in France, French lifestyle, travel, cuisine, health and well-being, reflecting on the past and future intentions in the world of work and study. Assessment includes Listening, Reading, Writing and Speaking tasks.

Japanese

Contact: Mrs Elizabeth Suzuki (esuzuki@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

Japanese → Japanese

Special Note: Students who choose to study a language are required to choose both the Semester 1 and Semester 2 units, representing two of their four elective options.

Japanese (JAP10A & JAP10B)

Students who committed to studies in Japanese at the Year 9 level and who are achieving sound success at this level or higher, satisfy the prerequisite for entry into Year 10 Japanese. Students who undertake these courses develop a wide vocabulary and acquire a strong understanding of all the mandatory grammatical items necessary to be successful in the senior Japanese course.

Students who do not continue with their language studies in Year 10 are unable to pursue language studies at a senior level unless under exceptional circumstances.

Language classes incorporate a range of information technology, varied and relevant learning tools and a range of cultural experiences. Staff members are not only experienced, but also passionate when it comes to the teaching and learning of a second language. Topics covered at the Year 10 level may include etiquette, shopping, lifestyle, travel, school and housing including cultural similarities and differences. Assessment includes Listening, Reading, Writing and Speaking tasks.
MATHEMATICS

Mathematics Ten, Mathematics TenPlus & Mathematical Modelling

Contact: Mr Gerry Lynch (glynch@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

Mathematics Ten → Mathematics A (or B), Prevocational Mathematics
Mathematics TenPlus → Mathematics B, Mathematics C
Mathematical Modelling (elective) → Mathematics C

Special Note: Mathematics is a compulsory subject.

Mathematics

All students will follow the Australian Mathematics Curriculum which is organised around the interaction of three content strands (Number and Algebra, Measurement and Geometry, and Statistics and Probability) and four proficiency strands (Understanding, Fluency, Problem Solving and Reasoning).

In Year 10 students have two courses available. A course recommendation will be made by the School for each student based on performance in the Year 9 course, teacher observation and parental discussion. The courses available are Mathematics Ten and Mathematics TenPlus.

Mathematics Ten: This course is aimed at students who have achieved a mid ‘C’ or less in Year 9 Mathematics. The course will contain all of the Year 10 Australian Curriculum content. This course is aimed particularly at students intending to study Mathematics A or Prevocational Mathematics in Years 11 and 12; however, some students may elect to study Mathematics B following very high achievement in this course.

Mathematics TenPlus: This course is aimed at students who have achieved a high ‘C’ or above in Year 9 Mathematics. The course will contain all of the Year 10 Australian Curriculum content plus additional Year 10A content. This course is aimed at students intending to study Mathematics B (or Mathematics B and Mathematics C) in Years 11 and 12.

Please be assured that care is taken to place students into the course best suited to their ability. Parents will be notified by letter at the end of Year 9 of the intended recommendation for their child. If you wish to discuss this placement it is advisable to contact the Head of Mathematics.

Electives Available in MATHEMATICS

Mathematical Modelling (single semester elective course) (MAC10)

This course is designed for high ability Year 10 students planning to study Mathematics B or Mathematics C in Year 11. Students will experience the challenge of both theoretical and practical Mathematics in individual and group situations. They will be presented with the opportunity to build problem solving skills, be involved in national Mathematics competitions and pursue projects of their own interest. Students will be provided with opportunities to work with technology (graphics calculators and computers), explore aspects of mathematics in a variety of careers, and appreciate the unique power of pure mathematics. Sample topics include: Functions as Models of Reality, Game Analysis/Probability, Introduction to Pure Mathematics, Spreadsheeting and Graphing packages, Introduction to Graphics Calculators, Mandelbrot Sets and Chaos Theory, and Dynamics.
PERFORMING ARTS

Drama & Music

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<td>MIDI Tech</td>
<td>Music</td>
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</tbody>
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Electives Available in DRAMA

**Contact:** Ms Katie Livock (klivock@scgs.qld.edu.au)

**Comedy with Attitude (DRA10A)**

Students will explore the comedy of Shakespeare through the play text *A Midsummer Night’s Dream*. Tasks include performing the text, performance analysis and creating performance based on the themes of the play. Students will work in the dimensions of Forming, Presenting and Responding with a view to preparation for Senior Drama.

**From Page to Stage (DRA10B)**

Students will read and explore a Theatre for Young People play text in order to investigate their place in the world through scripted performance. Analysis of dramatic technique, interpretation and transformation will be discussed and students will have the opportunity to perform their interpretations for a formal audience. Students will reflect on the purpose of the text as well as explore characters through improvisation. All tasks are designed to prepare students for Senior Drama.

Electives Available in MUSIC

**Contact:** Mr Brendan Scully (bscully@scgs.qld.edu.au)

**Special Note:** Students are expected to become a member of the School’s Senior Choir. It is recommended that students learn a musical instrument or take voice lessons.

The Year 10 Music program seeks to facilitate cultural, personal, aesthetic and technological learning through engaging with music literature, multimedia and traditional and contemporary genres of music. Student learning is organised around a sequence of structured units of work, each with a clearly defined focus. Students are strongly encouraged to enrol in Year 10 Music for both semesters as work in Semester Two will require a working knowledge of matter learned earlier in the year. It is expected that students will rehearse with one of the School’s formal music ensembles.

The two electives that are available for students are **Key Elements (MUS10A)** and **Film Music (MUS10B)**. Given the sequential nature of the program, it is highly desirable that students complete MUS10A before attempting MUS10B. Students will analyse, compose or arrange, and perform music. Students will use industry standard studio equipment to record their composition piece.
SCIENCE

Biology, Chemistry, Core Science & Physics

Contact: Mr Chris Smith (chsmith@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

Biology → Biology, Chemistry
Chemistry → Chemistry, Biology
Physics → Physics

Special Note: It is compulsory to complete at least two (2) Science electives.

Biology (BIO10)

This unit is useful for students who are considering choosing Biology at a senior level, but should also be an interesting and worthwhile study for students who just wish to broaden their Biology knowledge. There are a number of topics:

- Genetics – a study of inheritance with a particular emphasis on human examples. Students will be introduced to DNA and learn exactly what a gene is. They will learn how sex is determined, study a variety of genetics crosses and explore human pedigrees. They will also study one inherited condition in some detail.
- Biotechnology – this will cover a variety of new technological advances in Biology, including the mapping of the human genome, genetic screening, possible genetic engineering and the use of DNA profiling in forensics and other situations. Particular emphasis is placed on the social and ethical implications of these advances.
- Evolution – students will be introduced to evolution. They will look at the evidence for evolution and the mechanisms by which evolution occurs.
- Extended Experimental Investigation – as part of the preparation for further scientific study the students will undertake a major experimental investigation to teach them more about the scientific process. Currently this investigation is on factors affecting the germination of seeds.

Chemistry (CHE10)

This unit is strongly recommended prior to studying Chemistry or Biology in Year 11 and Year 12. In this Science unit students will study a number of topics from the disciplines of Chemistry. The topics studied will include:

- Introduction to Chemistry
- Atoms and chemical bonding
- Chemical reactions and equations
- Electrochemistry – including making electricity from common metals and electroplating e.g. gold plating of jewellery
- Corrosion of metals and their protection
- Organic Chemistry – with the ever increasing price of transport fuels, the students will concentrate on fuels used presently and alternatives to use in the future.

Completing this unit will provide students with a clear idea of areas of study involved in senior Chemistry and some idea of the standard of scientific competence required to succeed at this level. Assessment items will also help students to prepare for senior Chemistry.

Core Science (SCI10A & SCI10B)

These units are strongly recommended for students who do not wish to pursue studying Science in Year 11 and 12. The content will broadly cover the key elements of the Australian Curriculum. The courses are designed to present Science to students in a relevant and interactive way. The topics studied will include:

Core Science 1 (SCI10A) Topics

**Studied within the context of Forensic Science:**

- Biology: Understanding Genetics and DNA Profiling
- Chemistry: Understanding reactions, determining substances based upon their reactions and chemical analysis
- Physics: Motion of projectiles, blood splatter analysis

Core Science 2 (SCI10B) Topics

- Global Science: Human Impact on the Environment, Global topics
- The Universe: Formation of the Universe, Big Bang Theory, Frontiers in Space

Note: a student choosing Core Science 1 cannot also choose Biology, Chemistry or Physics.
Physics (PHY10)

This unit is recommended for any student with an interest in the physical world around us. While the topics are similar in nature to those found in senior Physics, the focus of the course is more on practical and hands-on activities and projects. This unit is highly recommended as a course for study prior to senior Physics. It is recommended that students electing to do this unit have achieved at least a satisfactory level of performance in Mathematics.

The main topics studied in this unit include:

- The Science of Sport – Have you ever wanted to hit the golf ball like Tiger, run like Cathy or to bend it like Beckham? Students will have access to a range of sophisticated data collection resources to investigate the sport of their choice.
- Electronics – Students will design, construct and study a range of electronic and logic circuits. Projects vary from a short wave radio to a home security system.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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</thead>
<tbody>
<tr>
<td>Core Science I</td>
<td>Core Science II</td>
</tr>
<tr>
<td>Choice of:</td>
<td>Choice of:</td>
</tr>
<tr>
<td>Biology</td>
<td>Biology</td>
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<tr>
<td>Chemistry</td>
<td>Chemistry</td>
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<tr>
<td>Physics</td>
<td>Physics</td>
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<td>Core Science II</td>
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</tbody>
</table>
VISUAL ART

Exploring the Human Form & Having a Voice in the Visual World

Contact: Dr Kerrie Corcoran (kcorcoran@scgs.qld.edu.au)

Pathways to Year 11 & 12 Studies

Visual Art → Visual Art

Exploring the Human Form (ART10A)

In this unit students will examine the great traditions of the human figure and portraits in art. This will be accomplished by examining the development of both traditional and modern movements e.g. Ancient Greece, Renaissance, Impressionism, Expressionism, Pop Art, and the Archibald Prize. Students will be encouraged to explore and experiment with a wide range of media, such as photograms, digital photography and painting. Students will be able to produce in their own practices some of the techniques, ideals, subject matter and concepts learnt as they study related artists.

Having a Voice in the Visual World (ART10B)

In this unit students will explore how to present their ideas concerning issues that are important to today’s youth through visual communication. Students will study and investigate the manner in which different cultures and various artists have expressed strong viewpoints in Post-Modernist art. Issues such as human rights, reconciliation, equality and environmental protection will be explored through their own art making in a variety of both 2D and 3D forms — drawing, installation, screen printing, stencil work and mixed media.
CENTRE FOR EXCELLENCE

Tennis

Contact: Mr David Andersson (dandersson@scgs.qld.edu.au)

Tennis (year long course) (TEN10A & TEN10B)

Learning and academic success remain the key priorities for our tennis players. The best of opportunities will be provided for individuals to explore their potential in the tennis arena according to their level of development. For each individual, tennis pursuits will be supported by expectations of concentrated attention to their studies. Balance and organisation will be a key focus for each of these students. An extensive on-court program combined with physiological testing, speed and agility training, musculoskeletal assessment and sports physiology provides the one of the best such courses in Queensland. All students who are selected in the program must aspire to compete at tournament level. This significant course is on a user pays system at discounted rates.

Selection criteria:
50% by ranking - ATP, WTA, ITF, TA, TQ, Regional (international students will provide a short resume about their tennis experience and national ranking)
25% based on potential as determined by the Coach
25% wild cards
YEAR 10 SUBJECT SELECTION

English, Health and Physical Education and Personal Development, and Christian Studies: No selection is required as all students will automatically be enrolled in these subjects.

Mathematics: A letter of recommendation will be issued to parents at the end of Year 9 Term 4. Please contact Mr Lynch to discuss any concerns with this recommendation.

Students are required to nominate a total of six (6) electives from the following list, adhering to the selection requirements where stated.

Science: Students are required to study a year of Science. Please select a minimum of two units of Science.

Humanities: Students are required to select a minimum one unit of Humanities.

<table>
<thead>
<tr>
<th>Business &amp; Technology</th>
<th>Languages</th>
<th>Mathematics</th>
<th>Performing Arts</th>
<th>Science (Students must choose a min of 2)</th>
<th>Visual Art</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC10 – Accounting</td>
<td>FRE10A – French Semester 1</td>
<td></td>
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<tr>
<td>BOM10 – Business Management</td>
<td>FRE10B – French Semester 2</td>
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<tr>
<td>GRA10A – Business &amp; Production</td>
<td>JAP10A – Japanese Semester 1</td>
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<tr>
<td>BCT10 – Business Technology</td>
<td>JAP10B – Japanese Semester 2</td>
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<tr>
<td>ECO10 – Economics</td>
<td>MAC10 – Mathematical Modelling</td>
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<td>IND10 – Industrial Technology</td>
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<td>MME10 – Multimedia</td>
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<td>TEC10 - Technology Studies</td>
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<tr>
<td>GRA10B – The Built Environment</td>
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<tr>
<td>Centre for Excellence</td>
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<tr>
<td>TEN10A – Tennis</td>
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<td></td>
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<tr>
<td>TEN10B – Tennis</td>
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</tbody>
</table>

| Hospitality Studies | |
|---------------------| |
| HOS10A – Kitchen Production | |
| HOS10B – Hospitality Studies | |

| Humanities (Students must choose a min of 1) | |
|---------------------------------------------| |
| AHI10 – Ancient History                     | |
| GEO10 – Geography                           | |
| LEG10 – Legal Studies                       | |
| MHI10 – Modern History                      | |

CONSULTATION WITH THE YEAR 11 RECOMMENDATIONS OF PRIOR STUDY IS REQUIRED WHEN MAKING SUBJECT SELECTIONS.
YEAR 11 SUBJECTS

Recommended Prior Study

THESE RECOMMENDATIONS ARE INTENDED AS A GUIDE ONLY. THE FINAL DECISION RE SUBJECT SELECTION RESTS WITH THE INDIVIDUAL STUDENT AND THEIR FAMILY.

<table>
<thead>
<tr>
<th>YEAR 11 SUBJECT</th>
<th>MINIMUM RECOMMENDED PRIOR KNOWLEDGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Successful completion of ACC10 or BCT10</td>
</tr>
<tr>
<td>Ancient History</td>
<td>Successful completion of any Year 10 Humanities subject</td>
</tr>
<tr>
<td>Biology</td>
<td>Successful completion of BIO10</td>
</tr>
<tr>
<td>Business Management</td>
<td>Successful completion of BCT10 or BOM10</td>
</tr>
<tr>
<td>BCT</td>
<td>Successful completion of BCT10 or BOM10</td>
</tr>
<tr>
<td>Certificate III in Fitness</td>
<td>Successful completion of HPE10</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Successful completion of CHE10 and preferably BIO10</td>
</tr>
<tr>
<td>Diploma of Business</td>
<td>Successful completion of BCT10 or BOM10</td>
</tr>
<tr>
<td>Drama</td>
<td>Successful completion of either DRA10A or DRA10B</td>
</tr>
<tr>
<td>Economics</td>
<td>Successful completion of ECO10 or ACC10 or BOM10</td>
</tr>
<tr>
<td>English</td>
<td>Successful completion of ENG10</td>
</tr>
<tr>
<td>English Communication</td>
<td>Completion of ENG10</td>
</tr>
<tr>
<td>French</td>
<td>Successful completion of both FRE10A and FRE10B</td>
</tr>
<tr>
<td>Geography</td>
<td>Successful completion of any Year 10 Humanities subject</td>
</tr>
<tr>
<td>Graphics</td>
<td>Successful completion of either GRA10A or GRA10B</td>
</tr>
<tr>
<td>Hospitality Studies</td>
<td>Successful completion of either HOS10A or HOS10B</td>
</tr>
<tr>
<td>ITS</td>
<td>Successful completion of MME10</td>
</tr>
<tr>
<td>Japanese</td>
<td>Successful completion of both JAP10A and JAP10B</td>
</tr>
<tr>
<td>Legal Studies</td>
<td>Successful completion of any Year 10 Humanities subject</td>
</tr>
<tr>
<td>Mathematics A</td>
<td>Successful completion of MAT10</td>
</tr>
<tr>
<td>Mathematics B</td>
<td>Successful completion of MAP10 with a ‘C+’ grade or MAT10 with a B+ grade</td>
</tr>
<tr>
<td>Mathematics C</td>
<td>Successful completion of MAP10 with a ‘B‐’ grade; successful completion of MAC10 an advantage</td>
</tr>
<tr>
<td>Mathematics – Prevocational</td>
<td>Completion of MAT10</td>
</tr>
<tr>
<td>Modern History</td>
<td>Successful completion of any Year 10 Humanities subject</td>
</tr>
<tr>
<td>Music</td>
<td>Successful completion of either MUS10A or MUS10B</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Successful completion of HPE10</td>
</tr>
<tr>
<td>Physics</td>
<td>Successful completion of PHY10 and MAP10</td>
</tr>
<tr>
<td>Technology Studies</td>
<td>Successful completion of TEC10</td>
</tr>
<tr>
<td>Visual Art</td>
<td>Successful completion of either ART10A or ART10B</td>
</tr>
</tbody>
</table>
Queensland Certificate of Education (QCE)
The QCE is Queensland’s senior school-based qualification, awarded to eligible students on completion of the senior phase of learning, usually at the end of Year 12. The QCE recognises achievement where a student has demonstrated a significant amount of learning, to a set standard and in a set pattern, while meeting literacy and numeracy requirements.

Tertiary Entrance Statement
If a student is eligible for an Overall Position (OP), this statement will show the OP and Field Positions (FPs) they have achieved. These rankings are used to determine eligibility for admission to tertiary courses.

Queensland Certificate of Individual Achievement (QCIA)
This certificate recognises the schooling achievements of students who complete Year 12 on individualised learning programs. Students eligible for a QCIA are those who have impairments or difficulties in learning.

More information
Visit the QCAA’s website at www.qcaa.qld.edu.au, email qce@qcaa.qld.edu.au or telephone (07) 3864 0299.
The QCE is Queensland’s senior school-based qualification, awarded to eligible students on completion of the senior phase of learning, usually at the end of Year 12. The qualification is internationally recognised and offers flexibility in what is learnt, as well as where and when learning occurs. This allows students to tailor their senior pathway to suit their interests and support their future goals.

The QCE is achievable for students and recognises a broad range of learning, including senior school subjects, vocational education and training (VET), workplace and community learning recognised by the Queensland Curriculum and Assessment Authority (QCAA), and university subjects undertaken while at school.

To be awarded a QCE, a student needs to demonstrate a significant amount of learning, to a set standard and in a set pattern, while meeting literacy and numeracy requirements. These requirements are measured in terms of credits. Credits are banked when the set standard has been met. Students must have at least 20 credits in the required pattern to be awarded a QCE.

If a student hasn’t achieved enough credit to qualify for a QCE by the end of Year 12, they can add to their learning account for up to seven years after leaving school. Once they achieve 20 credits and have completed the QCE requirements, the QCAA will award their QCE in the following July or December.

Courses of study
A wide variety of courses of study may contribute towards the QCE. Contributing studies are classified into four categories:

- **Core courses** are usually undertaken by students during the senior phase of learning and include Authority and Authority-registered subjects.
- **Preparatory courses** are generally used as stepping stones to further study or training.
- **Enrichment courses** provide learners with opportunities to develop their skills and knowledge at a higher level.
- **Advanced courses** go beyond the scope and depth of typical senior secondary schooling. To gain credit for one- or two-semester university subjects, diplomas or advanced diploma courses in VET, the student must undertake these courses as part of a school program in partnership with a tertiary education institution. However, other recognised studies such as AMEB Grade 8 and higher do not need to be part of a school program to attract credit towards a QCE.

Different types and amounts of learning attract different amounts of credit towards the QCE. Credit is assigned when a minimum standard of achievement has been reached. A young person must achieve at least 20 credits to be eligible for a QCE. A minimum of 12 credits must come from completed Core courses of study. The remaining 8 credits may come from a combination of Core, Preparatory, Enrichment or Advanced courses, with a maximum of 6 credits from Preparatory studies. Partial completion of a Core course of study may also contribute some credit.

Planning for a QCE
QCE planning starts in Year 10, when students develop a Senior Education and Training (SET) Plan. The SET Plan helps students structure their learning around their abilities, interests and ambitions. The plan is agreed between the student, their parents/carers and the school, and maps out what, where and how a student will study during their senior phase of learning — usually Years 10, 11 and 12.

The SET Plan should be developed by the end of Year 10, updated as necessary, and regularly reviewed to monitor progress.

The learning account
Schools are required to register students with the QCAA, which usually happens during Year 10. When a student is registered, a learning account is created for them. The learning account records the individual student’s school subject enrolments and results of any completed studies, which contribute to the QCE. These details are provided by the school and/or other learning provider/s. Students are given a LUI (learner unique identifier) and a password for their learning account, which they can access any time through the Student Connect website at www.studentconnect.qcaa.qld.edu.au.

The QCAA supplies schools with learning account cards, which should be distributed to students to help them keep their LUI and password handy.

Senior education profile
The QCAA issues each Queensland student with a senior education profile upon completion of Year 12. The composition of profiles varies. They may include any, but not all, of the following:

Senior Statement
This is an official record of the studies and results captured in a student’s learning account. A Senior Statement is issued to all students completing Year 12.