Stage 2 Subjects

Accounting
Art (Creative Arts)
ATAR Program (see page 14)
Automotive Technologies
Biology
Building and Construction
Building Design
Business and Enterprise
Chemistry
Child Studies*
Classical Studies*
Community Studies
Creative Arts - Stage, Screen and Drama*
Design (Creative Arts)
Digital Photography*
Digital Video*
English as a Second Language
English as a Second Language Studies
English Communications
English Studies*
Food and Hospitality*
Food and the Community
Furniture Construction

Gender Studies (previously Women’s Studies)*
Geography*
Geology*
Information Processing and Publishing*
Legal Studies*
Mathematical Applications
Mathematical Methods
Mathematical Studies
Metal Technologies
Modern History
Nutrition*
Physical Education
Pop Culture Studies
Psychology*
Research Project
SACE Completion Program (see page 19)
Scientific Studies / Health Science
Society and Culture
Specialist Mathematics*
Textiles
Textiles and Work
Tourism*

* Subjects marked with an asterisk are offered in the twilight timeslot of 4pm - 7pm.
**ACCOUNTING**  
*Business, Enterprise and Technology SACE Stage 2 20 credits*

**COURSE DESCRIPTION**  
Students acquire knowledge and skills related to the processes involved in recording, analyzing, and reporting accounting information for effective decision-making.

**COURSE CONTENT**  
**The Environment of Accounting**  
- Types of business entities  
- Influences on accounting information  
- Users of accounting information  
- Accounting process

**Financial Accounting**  
- The Accounting Equation  
- Double entry  
- Accounting reports  
- Cash flow  
- Analysis and interpretation of financial statements

**Management Accounting**  
- Cash budgets  
- Recording inventories  
- Control over debtors and assets  
- Decision making and report writing

**ASSESSMENT**  
School-based Assessment  
- Skills and Applications tasks 50%  
- Report 20%  
- External Assessment (examination) 30%

**FURTHER INFORMATION**  
This course prepares students for further study in the area of finance and business. A background in Accounting Stage 1 is desirable.

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**ART (CREATIVE ARTS)**  
*Arts SACE Stage 2 20 credits*

**COURSE DESCRIPTION**  
This subject gives students the opportunity for specialized study within the Arts area. Students participate in the development and presentation of creative art products. They analyze and evaluate products in different contexts and gain an understanding and appreciation of the ways in which creative arts contribute to, and shape the lives of individuals and communities.

**COURSE CONTENT**  
**Product**  
Students develop and produce two art products in their chosen art discipline eg painting, drawing, printmaking, sculpture, ceramics, installation, photography. A record of the creative process, including annotation and analysis, is developed.

**Investigation**  
Students investigate an area of practice that is of interest to them, and a related practitioner. They can present one investigative report of 2,000 words, or two individual investigations of 1,000 words each.

**Practical Skills**  
Students conduct a focused exploration, application and evaluation of skills appropriate to their preferred area of the creative arts. The Evaluation is 2,000 words written or 12 minutes oral.

**ASSESSMENT**  
School Assessment  
- Product 50%  
- Investigation 20%  
- External Assessment 30%

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### SACE Stage 2

#### ART AND THE COMMUNITY

**Cross-disciplinary**

**SACE Stage 2** 20 credits

**COURSE DESCRIPTION**

Students prepare an individual contract of work in order to undertake a community activity based upon their personal interest, skills or knowledge. Students set goals to work towards.

**COURSE CONTENT**

Students plan, make decisions and develop art work which will be presented to a community audience in the form of an exhibition at the end of the year.

Students maintain a folio of work as evidence and are required to reflect on their progress and on the completion of the contract.

**ASSESSMENT**

School Based Assessment
- Development of Contract 70%
- Folio
- Presentation

External Assessment
- Reflection 30%

**FURTHER INFORMATION**

Successful completion of Stage 2 Art and the Community contributes to SACE completion but does not allow for an ATAR to be achieved.

#### AUTOMOTIVE TECHNOLOGIES

**Cross-disciplinary**

**SACE Stage 2** 20 credits

**COURSE DESCRIPTION**

A practical course designed for students to develop skills and understanding of modern automotive applications.

**COURSE CONTENT**

Practical examination of the parts that make up the power, electrical, braking, and steering systems of the motor vehicle. Students gain skills and knowledge in maintenance and repair. Practical activities include:
- Vehicle servicing
- Small engine disassembly and reassembly
- Electrical circuit fault finding and repair

**ASSESSMENT**

School Assessment
- Practical 30%
- Group Activity 20%
- Folio and Discussion 20%

External Assessment
- Project 30%
BIOLOGY
Sciences
SACE Stage 2  20 credits

COURSE DESCRIPTION
Biology as a Stage 2 subject is organised so that intended student learning is related to a key idea or concept. The course is designed to give students a broader appreciation of aspects of living organisms from the cellular level through to ecosystems. It also explores the impact of human activities on the environment and other organisms. Links will be made between biological theories and current research to social and environmental issues. Students will develop investigative and evaluative skills through laboratory and research based activities.

COURSE CONTENT
Stage 2 Biology is organised around the following four themes:

- **Macromolecules** – Polysaccharides, lipids and proteins, DNA structure and function, genes and gene expression, humans can manipulate DNA
- **Cells** – Cell theory, cell structure and function in unicellular and multicellular organisms, cell cycle, energy transformations in cells
- **Organisms** – Hierarchical structure of multicellular organisms, role of specialised structures, asexual and sexual reproduction, impact of human lifestyle choices
- **Ecosystems** – Biotic and abiotic interactions in communities, trophic levels and energy, cycling of resources, natural selection and speciation, human practices and the environment

ASSESSMENT
School-based Assessment
- Investigations Folio 40%
- Skills and Applications tasks 30%

External Assessment
- Examination 30%

FURTHER INFORMATION
Stage 1 Biology is recommended. Can lead to a range of Science courses at University.

BUILDING AND CONSTRUCTION
Cross-disciplinary
SACE Stage 2  20 credits

COURSE DESCRIPTION
This is a practical-based course that has a wide range of activities designed to develop and improve knowledge and skills in the construction area.

COURSE CONTENT
Activities may include:
- Workplace health and safety
- Demolition and recycling
- Carpentry skills
- Basic bricklaying
- Wall construction
- Wall frame cladding and flushing

ASSESSMENT
School Assessment
- Practical 30%
- Group Activity 20%
- Folio and Discussion 20%

External Assessment
- Project 30%
SACE Stage 2

BUILDING DESIGN
Business, Enterprise and Technology
SACE Stage 2 20 credits

COURSE DESCRIPTION
Interest in building design and home renovation has grown rapidly over the past few years. This course introduces students to some of the underlying principles, regulations, guidelines and building codes that must be observed when taking on a building project. It also provides opportunity to develop and practise a range of building based skills.

COURSE CONTENT
Activities may include:
- Technical Drawing
- Perspective Drawing
- Investigation into timber and steel framing
- Concrete slab production
- Timber framing code and application

ASSESSMENT
School Based Assessment
- Skills and Application Task 20%
- Product 50%
External Assessment
- Folio 30%

BUSINESS AND ENTERPRISE
Business, Enterprise and Technology
SACE Stage 2 20 credits

COURSE DESCRIPTION
Business and Enterprise focuses on learning about the theory of running and managing a successful business enterprise. This course covers business issues locally and globally. Students have the opportunity to investigate a current business issue and also to evaluate the impact and effect of business enterprises on the economy, communities and the environment.

COURSE CONTENT
Students complete the study of a core topic and two option topics.

Core Topics
- The Business Environment
- Business in Australia
- The Nature and Structure of Business
- The Business Enterprise

Option Topics
- People, Business and Work
- Business, Law and Government

ASSESSMENT
School-based Assessment
- Practical 20%
- Folio 30%
- Issues Study 20%
External Assessment
- Report 30%

FURTHER INFORMATION
Background in Stage 1 Business and Enterprise, Legal Studies, Accounting or Economics is recommended.
CHEMISTRY
Sciences
SACE Stage 2 20 credits

COURSE DESCRIPTION
Chemistry is organised so that each intended student learning is related to a key idea or concept. Within the study of these chemical ideas and concepts, students develop their chemistry investigation skills through practical investigations and critical analysis of chemistry issues.

COURSE CONTENT
Elemental and Environmental chemistry
• Periodic table, nature's cycles, environmental issues

Analytical techniques
• Volumetric analysis, chromatography and atomic absorption spectroscopy

Using and controlling reactions
• Heat in reactions, electrochemistry, rates and equilibrium, metal production

Organic and biological chemistry
• Functional groups and series, proteins, triglycerides, sugars

Materials
• Polymers, silicates, cleaning agents

ASSESSMENT
School based Assessment
Investigations Folio 40%
Skills and Applications Tasks 30%

External Assessment
Examination 30%

FURTHER INFORMATION
Successful completion can lead to a range of Science and Engineering courses at university. Stage 1 Chemistry is recommended.

CHILD STUDIES
Health and Physical Education
SACE Stage 2 10 or 20 credits

COURSE DESCRIPTION
This subject focuses on children's growth and development from conception to eight years. Students critically examine attitudes and values about parenting and caregiving and gain an understanding of the growth and development of children. Childhood is a unique, intense period of growth and development. Children's lives are affected by relationships with others; intellectual, emotional, social and physical growth; cultural, familial and socio-economic circumstances.

COURSE CONTENT
There are five areas of study:
• Contemporary and Future Issues
• Economic and Environmental Influences
• Political and Legal Influences
• Sociocultural Influences
• Technological Influences

ASSESSMENT
School-based Assessment
Practical 50%
Group Activity 20%

External Assessment
Investigation 30%
CLASSICAL STUDIES
Humanities and Social Sciences
SACE Stage 2 20 credits

COURSE DESCRIPTION
This course looks at Greek and Roman classical worlds, including literary texts from the period. As part of this subject, students undertake an externally marked study on an area of the classical world that interests them.

COURSE CONTENT
• Roman History, 70-28 BC
• Roman Poetry
• Greek and Roman Material Culture, 7th Century BC to 2nd Century AD

ASSESSMENT
School-based Assessment
- Folio 40%
- Essays 30%
External Assessment
- Special Study 30%

COMMUNITY STUDIES
Cross-disciplinary
SACE Stage 2 20 credits

COURSE DESCRIPTION
Students work on a project of their own choice to support their learning goals. Community Studies is designed to be flexible and fit in with other commitments. The course allows students to network with people in the community and develop a range of different skills.

COURSE CONTENT
Students choose one of the following areas:
- Arts
- Communication
- Food
- Health and Recreation
- Science and Technology
- Work

ASSESSMENT
School-based Assessment 70%
- Contract of Work
- Folio
- Presentation
External Assessment 30%
- Reflection

FURTHER INFORMATION
At Stage 2 Community Studies contributes to SACE completion but does not contribute to an ATAR. Students may transition from another subject to Community Studies during the first half of the year. Students may undertake more than one Community Studies Project at Stage 2.
CREATIVE ARTS – STAGE, SCREEN AND DRAMA

Arts
SACE Stage 2  20 credits

COURSE DESCRIPTION
Creative Arts - Stage, Screen and Drama allows students to explore, apply and develop techniques within a performing arts area of their choice. In addition it also provides students with the flexibility to explore other areas that relate to the performing arts such as film direction or screen writing.

COURSE CONTENT
The focus of this course is on Drama, exploring and analysing theories, techniques and performance genres to assist students to develop their skills in acting for screen and stage. It also involves focused study of current practitioners and performance to develop an understanding and appreciation for the way that arts contribute to and shape individuals and communities through creativity and expression. Students have the option to incorporate performing arts disciplines outside of acting into their assessment tasks.

ASSESSMENT
At Stage 2 students have the option of submitting their assessments in written or multimodal form.
School-based Assessment
- Product  50%
- Investigation  20%

External Assessment
- Practical Skills  30%

DESIGN (CREATIVE ARTS)

Arts
SACE Stage 2  20 credits

COURSE DESCRIPTION
This subject gives students the opportunity for specialized study within the Design area. Students participate in the development and presentation of creative arts products. They analyze and evaluate products in different contexts and gain an understanding and appreciation of the ways in which creative arts and design contribute to, and shape the lives of individuals and communities.

COURSE CONTENT
Product
Students develop and produce two design products in their chosen design discipline. A record of the creative process, including annotation and analysis, is required.

Investigation
Students investigate an area of practice of interest to them and a study of design practitioners.

Practical Skills
Students conduct a focused exploration, application and evaluation of skills appropriate to their preferred area of the creative arts.

ASSESSMENT
School Assessment
- Product (two products)  50%
- Investigation (two investigations)  20%

External Assessment
- Practical Skills (one practical skills task)  30%
DIGITAL PHOTOGRAPHY
Business, Enterprise and Technology
SACE Stage 2 20 credits

COURSE DESCRIPTION
Students will develop a range of photographic techniques and skills. They will use digital cameras and Adobe Photoshop to process and produce their photos. Students are required to participate in excursions and out of class activities.

COURSE CONTENT
In Photography students develop skills and knowledge in: camera handling, composition, light, file management and post processing using Camera Raw and Photoshop.

ASSESSMENT
School-based Assessment
Skills and Applications tasks 20%
Product Design and Development 50%

External Assessment
Folio 30%

DIGITAL VIDEO
Business, Enterprise and Technology
SACE Stage 2 20 credits

COURSE DESCRIPTION
Students learn to plan, capture and edit video using digital cameras.

COURSE CONTENT
In Digital Video, students develop skills and knowledge in: camera handling, composition, light, file management and post processing using sound and video editing suites such as Premiere Pro, After Effects or Final Cut Pro.

ASSESSMENT
School-based Assessment
Skills and Applications tasks 20%
Product Design and Development 50%

External Assessment
Folio 30%
ENGLISH AS A SECOND LANGUAGE

English
SACE Stage 2 20 credits

COURSE DESCRIPTION
In this course, students develop their understanding, confidence and proficiency in the use of the English language, developing skills as critical readers, researchers, viewers, listeners, speakers and writers. It further develops the knowledge and competence gained in Stage 1 ESL.

COURSE CONTENT
Students undertake tasks within the following areas of study:

Communication Study
• Oral – from speech, TV segment, advertising presentation, demonstration
• Written – from formal letter, newspaper, magazine article, pamphlet

Text Production
• Responses to fictional and non-fiction texts
• Oral – class presentation or discussion with teacher
• Written – from narrative, journal entry, essay, reflection, letter, report or description

Language Application
Students produce one oral report and one written evaluation based on an interview or a mentoring activity.

Investigation
External Assessment. Students write a written report on a contemporary issue of their choice and present an oral reflection.

ASSESSMENT
School-based Assessment
  Communication Study 20%
  Text Production 30%
  Language Application 20%
External Assessment
  Investigation 30%

FURTHER INFORMATION
Students who have had more than five years of education in English in Australia or overseas, will have their written English assessed by the ESL Coordinator to confirm their eligibility for Stage 2 ESL.
ENGLISH AS A SECOND LANGUAGE STUDIES

English
SACE Stage 2 20 credits

COURSE DESCRIPTION
This course develops skills in using English mainly for study purposes. As students read and view a variety of texts, they develop skills in locating key ideas as well as synthesizing and expressing them in their own words, both orally and in writing. They also develop research, oral presentation and listening skills and produce formal written texts eg essays, reports and business letters.

COURSE CONTENT
Issue Analysis
• An interactive discussion with the teacher on an issue
• A written response to the issue

Text production
• An essay in response to an issue in a text
• A piece of creative writing in response to a text

Investigation
• Written presentation on the topic of the investigation (essay or report)
• Tutorial (oral) on the topic of the investigation

ASSESSMENT
School-based Assessment
Issue Analysis 20%
Text Production 20%
Investigation 30%

External Assessment
Examination (External Assessment) 30%
(Listening comprehension paper and written paper)

FURTHER INFORMATION
Students who have had more than five years of education in English in Australia or overseas, will have their written English assessed by the ESL Coordinator to confirm their eligibility for Stage 2 ESL Studies.

ENGLISH COMMUNICATIONS

English
SACE Stage 2 10 or 20 credits

COURSE DESCRIPTION
This course is designed to expand students' skills in reading and responding to a range of texts as well as in the crafting and production of various text-types. Students investigate and apply the conventions, techniques and language strategies used to communicate in written, spoken and multi-modal texts.

COURSE CONTENT
Text Analysis
Students demonstrate the ability to understand, analyze and effectively discuss three different text types – Prose narrative/Poetry or Song/Film. One of these is presented as an oral text.

Text Production
Students demonstrate the skills and knowledge needed to produce examples of different types of texts, such as recount, exposition and writing to entertain. One of these texts is produced as a timed piece under supervision.

Communication Study
Students undertake a study into one form of communication and discuss skills in the production of a second form of communication.

Folio
Students select and produce one form of Text Production and one example of Text Analysis to showcase their personal skills.

ASSESSMENT
School Based Assessment
Text Production 20%
Text Analysis 20%
Communication Study 30%

External Assessment
Folio 30%
ENGLISH STUDIES
English
SACE Stage 2 20 credits

COURSE DESCRIPTION
This course offers students the opportunity to extend their knowledge and understanding of literature. The course focuses on the analysis of quality texts, encouraging students to extend the scope of their reading and viewing.

COURSE CONTENT
An in-depth study of shared novels, poetry, plays and film.
The analysis of texts using critical thinking skills. Students are required to develop informed opinions and find evidence to support their point of view.
The ability to construct logical and convincing arguments.
Opportunities for students to develop and demonstrate their use language for a range of purposes.
An Individual Study that requires each student to select two appropriate texts to analyze and compare in an extended essay.

ASSESSMENT
School-based Assessment
  Text responses including an Individual Study 50%
  Oral and written text production 20%
External Assessment
  Three hour examination 30%

FOOD AND HOSPITALITY
Health and Physical Education
SACE Stage 2 20 credits

COURSE DESCRIPTION
This course focuses on the impact of the food and hospitality industry on Australian society and examines the contemporary and changing nature of the industry. Students develop skills in using technology and safe work practices in the preparation, storage and handling of food and complying with current health and safety legislation. They investigate and discuss contemporary food and hospitality issues and current management practices and explore concepts such as the legal and environmental aspects of food production, trends in food and hospitality, consumer protection and the nutritional impact of healthy eating.

COURSE CONTENT
Students study topics within the following five areas of study:
  • Contemporary and Future Issues
  • Economic and Environmental Influences
  • Political and Legal Influences
  • Socio-cultural Influences
  • Technological Influences.

ASSESSMENT
School-based Assessment
  Practical 50%
  Group work 20%
External Assessment
  Investigative Study 30%
SACE Stage 2

FOOD AND THE COMMUNITY
Cross-disciplinary
SACE Stage 2 20 credits

COURSE DESCRIPTION
This course enables students to work on an individual community project that supports their learning goals. The project selected focuses on an area of food of particular interest to the student; allowing them to network with people in the community and develop a range of practical skills.

COURSE CONTENT
Examples of projects students may choose from:
• Developing an eating plan for a particular diet
• Compiling a recipe book for a community group
• Catering for a community group

ASSESSMENT
School-based Assessment
Folio 70%

External Assessment
Reflection 30%

FURTHER INFORMATION
At Stage 2 Food and the Community contributes to SACE completion but does not contribute to an ATAR.

FURNITURE CONSTRUCTION
Business, Enterprise and Technology
SACE Stage 2 20 credits

COURSE DESCRIPTION
This course provides an opportunity for students to demonstrate knowledge and practical skills associated with using systems, processes and resistant materials. This is a woodwork based subject where students design and construct a medium sized piece of furniture.

COURSE CONTENT
Students use a range of manufacturing techniques such as tools, machines, and/or systems to convert resistant materials into useful products. The course develops wood machining skills, using a wide range of power tools and machines.

ASSESSMENT
School-based Assessment
Skills and Applications tasks 20%
Product 50%

External Assessment
Folio 30%

FURTHER INFORMATION
Students may be required to purchase some furniture construction materials as required for larger projects.
GENDER STUDIES
Humanities and Social Sciences
SACE Stage 2  20 credits

COURSE DESCRIPTION
Students look at the world from the perspectives of women. Students examine the construction of gender and how being a woman or a man may influence an individual’s experiences and expectations. They explore the diversity of women’s experiences and their relationships to others. They also study gender representation in cultural texts.

COURSE CONTENT
• Representations of Women in Cultural Texts
• Health and Well-being
• Women’s Struggles, Achievements and Empowerment
• Women, Culture and Society
• Negotiated Issue

ASSESSMENT
School-based Assessment
  Text Analysis  20%
  Essay  20%
  Folio  30%
External Assessment
  Issues Analysis  30%

FURTHER INFORMATION
Gender Studies is available to female and male students.

GEOGRAPHY
Humanities and Social Sciences
SACE Stage 2  20 credits

COURSE DESCRIPTION
Students develop an understanding of the spatial interrelationships between people, places and environments. Students pose and seek answers to questions of what, where, who, why, how, and when about their world. The discipline of geography deals with diverse environmental phenomena and human activities, including population, landforms, tourism, globalisation, resources, agriculture, hazards and urban planning.

COURSE CONTENT
Core Topic
Population, Resources, and Development
Students are introduced to the processes involved in population change. Students become aware of the impacts of population and consumption on the environment. Water is used as a case study.

Option Topics
Students will have the opportunity to explore two of the following topics:
• Urbanisation
• Tourism
• Coasts
• Environmental Hazards
• Globalisation

ASSESSMENT
School-based Assessment
  Fieldwork  25%
  Inquiry  20%
  Folio  25%
External Assessment
  Examination  30%
SACE Stage 2

GEOLOGY
Sciences
SACE Stage 2 20 credits
COURSE DESCRIPTION
This course has been developed as part of the GeoFutures program in consultation with the mining and exploration industry. The course includes industry speakers and can lead to further study of geology at university level.
COURSE CONTENT
Geology Stage 2 includes four topics;
The Rock Cycle
• Minerals
• The cycle of change
• Regional processes
Global Patterns and Process
• Global Patterns
• Global Processes
The History of Earth
• Uniformitarianism
• Rock relationships
• The Geological Time Scale
• Geological Mapping and remote image interpretation
Geological Hazards
• Civil Engineering
• The importance of resources
• Sustainable future
ASSESSMENT
School-based Assessment
Investigation/Folio Tasks 40%
Skills and Applications tasks 30%
External Assessment
Examination (External Assessment) 30%
FURTHER INFORMATION
Stage 2 Geology will include compulsory field trips and excursions involving walking and physical activity.

INFORMATION PROCESSING AND PUBLISHING
PERSONAL AND BUSINESS DOCUMENTS
Business, Enterprise and Technology
SACE Stage 2 20 credits
COURSE DESCRIPTION
Students are introduced to designing and producing personal and business documents using Word and Excel. Skills developed are suitable for further study, personal communications and employment.
Basic keyboarding skills are assumed.
COURSE CONTENT
Practical tasks completed include letters, reports, tables, financial statements, budgets, newsletters, programs and itineraries.
Social, legal and ethical issues considered may include such topics as:
• Confidentiality
• Retraining
• Multiskilling
• Workplace health, safety and welfare
• Intellectual property
• Security
ASSESSMENT
School-based Assessment
Practical 40%
Theory 30%
External Assessment
Product and Documentation 30%
FURTHER INFORMATION
Previous software knowledge and experience is an advantage.
Legal Studies
Humanities and Social Sciences
SACE Stage 2 20 credits

Course Description
This course provides students with the chance to learn about the Australian legal system from the local level to its global connections, its origins and functions. The course focuses on the Australian Constitution, examines the key concepts of parliamentary democracy and how the legal system deals with civil and criminal disputes. Students learn how laws are made and enforced and the legal issues affecting Australian citizens. Students are expected to take a critical view of the legal system as well as understanding its strengths.

Course Content
- The Australian Legal System
- Constitutional Government
- Law-making
- Justice Systems

Assessment
School Assessment
- Folio 50%
- Inquiry 20%

External Assessment
Examination 30%

Further Information
Completion of Stage 1 Legal Studies is desirable.

Mathematical Applications
Mathematics
SACE Stage 2 10 or 20 credits

Course Description
This course covers a range of mathematics relevant to both personal and business use. Students explore, describe and explain aspects of the world around them using mathematical problem-solving skills. The use of a graphics calculator is required in this course.

Course Content
Semester 1
- Mathematics and Small Business
- Share Investments

Semester 2
- Investments and Loans
- Statistics and Working with Data

Assessment
School-based Assessment
- Skills and Applications tasks 30%
- Folio tasks 40%

External Assessment
- Examinations 30%

Further Information
Casio calculators are available for hire from the Library for a refundable fee. Semester 2 topics are externally examined.
SACE Stage 2

### MATHEMATICAL METHODS
Mathematics  
SACE Stage 2  
20 credits

**COURSE DESCRIPTION**
This course contains topics from Statistics, Calculus and Matrices and Systems of Linear Equations.

**COURSE CONTENT**
- Statistics
- Normal Distribution
- Central Limit Theorem
- Binomial Distribution
- Confidence Intervals
- Sampling distributions
- Modelling
- Linear models
- Exponential and power models
- Modelling from data
- Calculus
- Rates of change
- Rules, finding derivatives
- Differentiation rules
- Applications
- Linear Programming
- Properties of regression models
- Linear Programming
- Matrices
- Addition and subtraction
- Matrix multiplication
- Powers
- Networks, Dominance and Transition Matrices

**ASSESSMENT**
School-based Assessment  
Skills and Applications tasks 45%  
Folio tasks 25%  
External Examination 30%

### MATHEMATICAL STUDIES
Mathematics  
SACE Stage 2  
20 credits

**COURSE DESCRIPTION**
This course explores the topics Working with Linear Equations and Matrices, Working with Functions and Graphs using Calculus and Working with Statistics.

**COURSE CONTENT**
- **Working with Linear Equations and Matrices**
  Developing and solving systems of linear equations. Using matrices and their inverses.

- **Working with Functions and Graphs using Calculus**
  Modeling, introductory calculus, rates of change, limits, derivative function, simple rules of differentiation and chain rule, product and quotient rule, tangents and normals. Rates of change, curve properties, optimization, exponential and logarithmic functions, the definite integral and the indefinite integral.

- **Working with Statistics**
  Normal distribution, sample means, hypothesis testing, confidence intervals.  
  Binomial Distribution, Pascal's Triangle, probabilities, normal approximation, hypothesis testing, confidence intervals.

**Statistics (Normal Distribution)**
Normal distribution, sample means, hypothesis testing, confidence intervals.

**Statistics (Binomial Distribution)**
Pascal's Triangle, probabilities, normal approximation, hypothesis testing, confidence intervals.

**ASSESSMENT**
School-based Assessment  
Skills and Applications tasks 45%  
Folio tasks 25%  
External Examination 30%
**METAL TECHNOLOGIES**  
Business, Enterprise and Technology  
SACE Stage 2  
20 credits

**COURSE DESCRIPTION**  
Metal Technologies includes a broad range of metal-based processes that involve the use of workshop tools and equipment to research, plan, create and develop metal-based products. Students use a range of hand tools and workshop equipment including drilling machines, metal turning lathes, metal folding machines and welding processes to manufacture a ‘benchtop barbeque’. Students also research the impacts of technology on people, society and the environment.

**COURSE CONTENT**  
The practical aspects of the course are underpinned with theoretical knowledge about metal working processes and materials including various steel, stainless steel and plastic materials sections, such as plate, flat and round bar stock. There is a strong emphasis on industrial and workshop safety and a focus on employability skills.

**ASSESSMENT**  
School-based Assessment  
Skills and Applications tasks  20%  
Product  50%  

External Assessment  
Folio  30%

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**MODERN HISTORY**  
Humanities and Social Sciences  
SACE Stage 2  
20 credits

**COURSE DESCRIPTION**  
In this subject, students investigate people, places, events, and ideas in the history of modern societies. They learn to apply the skills of historical inquiry, including critical analysis. They construct reasoned historical arguments based on a critical understanding of evidence from sources, reflect on and evaluate the impacts of individuals and events.

**COURSE CONTENT**  
Revolutions and Turmoil  
Social and Political Upheavals since c. 1500 with a focus on the Russian Revolution.

An Age of Catastrophes  
Depression, Dictators, and the Second World War, c. 1929–45, with a focus on Adolf Hitler and Nazi Germany.

**ASSESSMENT**  
School-based Assessment  
Folio (essays, source analyses)  50%  
Individual essay  20%  
External Assessment  
Exam  30%
**SACE Stage 2**

**NUTRITION**

**Sciences**  
SACE Stage 2 20 credits

**COURSE DESCRIPTION**

Nutrition students explore up-to-date scientific information on the role of nutrients in the body as well as on social and environmental issues related to nutrition.

**COURSE CONTENT**

**Topics**
- The Fundamentals of Human Nutrition
- Diet, Lifestyle and Health
- Food Selection and Dietary Evaluation
- Food, Nutrition and the Consumer
- Global Hunger

**ASSESSMENT**

School-based Assessment  
- Investigations Folio 40%  
- Skills and Applications Tasks 30%

External Assessment  
- Examination 30%

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**PHYSICAL EDUCATION**

**Health and Physical Education**  
SACE Stage 2 20 credits

**COURSE DESCRIPTION**

This course involves undertaking three sports practical activities, as well as studying the three topics of exercise physiology, skill acquisition and the biomechanics of sports performance.

**COURSE CONTENT**

**Practical Topics**
- Basketball, volleyball, and badminton (or preferred alternative)
- Optional negotiated activity for elite-level sports students

**Folio Topics**
- Energy systems and fitness components in sport
- Training principles and methods to improve performance
- How we learn sports skills
- The biomechanics of sports performance
- Investigation of a contemporary sports issue

**ASSESSMENT**

School-based Assessment  
- Practical activities 50%  
- Folio tasks 20%

External Assessment  
- Examination 30%

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**FURTHER INFORMATION**

Previous experience with some of the above practical sports would be beneficial.
PHYSICS
Sciences
SACE Stage 2 20 credits

COURSE DESCRIPTION
Stage 2 Physics is organised into four sections, as shown below. Each section is divided into four topics. Each topic includes one application, which is an integral part of study in this subject.

COURSE CONTENT
• Motion in Two Dimensions
• Electricity and Magnetism
• Light and Matter
• Atoms and Nuclei

ASSESSMENT
School-based Assessment
  Investigations Folio 40%
  Skills and Applications tasks 30%
External Assessment
  Examination 30%

FURTHER INFORMATION
Successful completion of this course can lead to a range of Science and Engineering courses at university.

POP CULTURE STUDIES
Cross-disciplinary
SACE Stage 2 20 credits

COURSE DESCRIPTION
Students will use their interest in and consumption of popular culture – video games, anime, and movies – to critically examine the impacts of popular culture on their lives and society in general.

COURSE CONTENT
• Fandom
• Representation in Pop Culture
• Media Production in the 21st Century
Students will also prepare for and participate in pop culture events such as the Adelaide Anime and Video Game Convention to build their capabilities in the key areas of study – Learning, Citizenship and Personal Development.

ASSESSMENT
School Based Assessment
  Practical 30%
  Group Activity 20%
  Folio and Discussion 20%
External Assessment
  Project 30%

FURTHER INFORMATION
This course uses the Integrated Learning subject outline.
PSYCHOLOGY
Sciences
SACE Stage 2 20 credits

COURSE DESCRIPTION
This course studies the concepts of Psychology from the Biological, Personal, Cognitive and Social perspectives. The course looks at how psychology works as a profession, ethics and research structures and general theories that are used to explain our behaviour. Students need to understand that psychological evidence, theories, and principles address four levels of explanation of human behaviour – the biological, basic processes, person, and sociocultural levels.

COURSE CONTENT
• Introduction to Psychology - a required background in the principles of research, the profession and ethics
• Social Influence
• Learning
• Personality
• States of Awareness
• Healthy Minds

ASSESSMENT
School-based Assessment
Skills and Applications tasks 40%
Folio - two Research investigations 30%
External Assessment
Examination 30%

RESEARCH PROJECT
Cross-disciplinary
SACE Stage 2 10 credits

COURSE DESCRIPTION
Students choose and research a topic based on an area of interest.
In the Research Project students choose a research topic that is based on an area of interest, and one or more capabilities (Literacy, Numeracy, Information and Communication Technology Capability, Critical and Creative Thinking, Personal and Social Capability, Ethical Understanding, and Intercultural Understanding).
Students use the research framework as a guide to developing their research and applying knowledge and skills specific to their research topic. They create an outcome, evaluate the research processes used and reflect on the relevance of the chosen capability (or capabilities) to themselves and their research project.

ASSESSMENT
School-based Assessment
Folio 30%
Research outcome 40%
External Assessment
Evaluation 30%

FURTHER INFORMATION
The Research Project is a compulsory subject of the SACE.
Students must complete the 10-credit Stage 2 Research Project with a C grade or better.
SCIENTIFIC STUDIES
HEALTH SCIENCE
Sciences
SACE Stage 2

COURSE DESCRIPTION
Health Science is designed for students interested in pursuing careers in health care and nursing. The course allows students to improve their general scientific knowledge, skills and writing techniques in a health context. There are opportunities to hear from professionals working in the Health Science field and information is provided to support students pursuing tertiary study.

COURSE CONTENT
Health Care in Australia
• Issues in Heath Care
• Indigenous Health

Human Physiology and Anatomy
• Body systems
• The immune system
• Human anatomy

Health and Hygiene
• Bacteria
• Pathogens
• Hospital hygiene

Epidemics
• Spread of diseases
• What are epidemics
• Research skills

Lifestyle Diseases and Nutrition
• Obesity and overeating
• Cardiovascular disease
• Smoking, alcohol and drugs
• Nutrients and macronutrients
• Diabetes
• Aged care

Human Genetics and Disorders
• Blood types
• Genes
• Inherited characteristics
• Genetic disorders

ASSESSMENT
School Assessment  70%
Investigations Folio
Skills and Applications tasks
External Assessment  30%
Practical Investigation
SACE Stage 2

**SOCIETY AND CULTURE**
Humanities and Social Sciences  
SACE Stage 2 20 credits

**COURSE DESCRIPTION**
Students study the interactions of people, societies, cultures and environments. They learn about the ways in which societies constantly change and are affected by social, political, historical, environmental, economic and cultural factors. Through course activities students develop social inquiry skills and are expected to participate in group activities and primary research to develop these skills.

**COURSE CONTENT**
At least one topic from each of the following three will be studied. Activities and content within each of these topics is flexible and will be negotiated with the class to ensure relevance and interest.

**Culture**
- Cultural Diversity
- Youth Culture

**Contemporary Challenges**
- Social Ethics
- People and the Environment

**Global Issues**
- A Question of Rights
- People and Power

**ASSESSMENT**
School-based Assessment  
Folio 50%  
Interaction 20%

External Assessment  
Investigation 30%

**SPECIALIST MATHEMATICS**
Mathematics  
SACE Stage 2 20 credits

**COURSE DESCRIPTION**
This course explores topics in Trigonometry Preliminaries, Polynomials and Complex Numbers and Vectors and Geometry, Calculus and Differential Equations.

**COURSE CONTENT**
**Trigonometric Preliminaries**
- Trigonometric graphs and properties
- Trigonometric Identities

**Polynomials and Complex numbers**
- Complex number operations
- Inductive arguments
- The Complex Plane and Polar Form
- DeMoivre’s theorem
- Polynomials and Operations
- Fundamental Theorem of Algebra
- Quadratic Iterations

**Vectors and Geometry**
- 3-D vectors
- Lines and Planes
- Geometry of circles and tangents
- Vector proofs

**Calculus and Differential Equations**
- Functions of time
- Uniformly and non-uniformly varying quantities
- Related rates, velocity and tangents
- Derivatives of circular functions
- Calculus of trigonometric functions
- Differential equations including separable differential equations
- Systems of Differential Equations and Cyclic Behaviour

**ASSESSMENT**
School-based Assessment  
Skills and Applications tasks 45%
Folio tasks 25%

External Examination 30%

**FURTHER INFORMATION**
Students must also do Stage 2 Mathematical Studies.
### TEXTILES
**Cross-disciplinary**
**SACE Stage 2**  
**10 or 20 credits**

**COURSE DESCRIPTION**
This course is designed for students who have an interest in design and construction using textiles. The work involves the community outside of the school and is presented to a community audience for feedback. The course looks at the characteristics of textiles and their place in the community.

**COURSE CONTENT**
Students:
- Develop their skills and knowledge working with textiles
- Use sewing machines and overlockers
- Use Computer Embroidery machines
- Develop and use design in embroidery
- Make garments and accessories
- Make items for community groups eg kindergartens, childcare centres, volunteer organisations
- Use woven and stretch textiles in a variety of ways
- Incorporate different forms of textiles
- Use varied techniques including knitting and crochet
- Learn how to design for purpose
- Examine the functionality of textiles

**ASSESSMENT**
School-based Assessment  
Contract of Work  
Folio  
Presentation  
External Assessment  
Reflection

### TEXTILES AND WORK
**Cross-disciplinary**
**SACE Stage 2**  
**20 credits**

**COURSE DESCRIPTION**
Students use their previous knowledge and skills using sewing machines, overlockers and embroidery machines to undertake community projects related to work that uses textiles.

**COURSE CONTENT**
Students may consider setting up their own business, making and repairing clothing or assisting charities and government agencies in the provision of textile-based items. The course also involves learning about health and safety with home businesses, teaching others in the community and the financial and legal requirements of setting up your own business. Students maintain a folio of their work throughout the course and make a presentation of their work.

**ASSESSMENT**
School-based Assessment  
Contract of Work  
Folio  
Presentation  
External Assessment  
Reflection

**FURTHER INFORMATION**
Experience in operating sewing machines, overlockers and embroidery machines is desirable.
SACE Stage 2

TOURISM
Humanities and Social Sciences
SACE Stage 2 20 credits

COURSE DESCRIPTION
This course explores the operations and structures of the tourism industry, sustainable tourism and the traveller’s perceptions and interactions with the host community.

COURSE CONTENT
Three topics selected from:
- Applications of technology in tourism
- The economics of tourism
- Establishing a tourism venture
- Indigenous people and tourism
- Management issues of local area tourism
- The impacts of tourism
- Marketing tourism
- Responsible travel
- Special interest tourism
- The role of governments and organisations in tourism
- Tourism industry skills
- Negotiated topic

ASSESSMENT
School-based Assessment
  - Practical 25%
  - Folio 20%
  - Investigative Study 25%

External Assessment
  - Examination 30%