Coomandook Area School

"Striving To Make The Difference"

CURRICULUM PROSPECTUS
2025
Year 11 – 12

Respect, Honesty, Persistence

Government of South Australia
Department for Education

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Coomandook Area School Curriculum

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THE SOUTH AUSTRALIAN CERTIFICATE OF EDUCATION (SACE)

To complete the SACE, students must achieve 200 SACE credits across Stage 1 (Year 11) and Stage 2 (Year 12), including 50 credits for successful completion of 4 compulsory SACE subjects. Students are able to gain 10 credits for successful completion of a semester's work or VET equivalent.

COMPULSORY SACE SUBJECTS

Personal Learning Plan - All students complete the 10 credit Personal Learning Plan (PLP) in Year 10.

Literacy - All students complete 20 credits of an English subject at Stage 1 and achieve a C grade or better.

Numeracy - All students complete 10 credits of a Mathematics subject at Stage 1 and achieve a C grade or better.

Research Project - All students complete a 10 credit Research Project at a C- grade or better in Year 11.

ASSESSMENT

Stage 1 subjects in the SACE will be assessed by the school and moderated internally or externally.

All Stage 2 subjects will have a 30% external assessment component which will be done through assessment tasks such as exams, performances or investigations. Stage 2 subjects will be externally moderated to ensure that standards are maintained across the State.

All subjects in Stage 1 will have A-E grades and Stage 2 A+ to E- grades to show levels of achievement.

Please contact the school or the SACE Board (www.sace.sa.edu.au) for further information regarding the South Australian Certificate of Education.

SACE STAGE 1
SUBJECT OFFERINGS FOR 2025

SUBJECT SELECTION

SACE Stage 1 students study a combination of compulsory subjects and choice subjects. SACE Stage 1 students should take into account their future pathways through to SACE Stage 2 and beyond. Students will complete the SACE Stage 2 Research Project as part of their studies. Year 11's choose 8 semesters of Choice Subjects to be studied. Most subjects can be studied for a semester, however some subjects must be studied for a Full Year.

SACE STAGE 1 CURRICULUM

COMPULSORY SUBJECTS

English	Full Year
OR Literary Studies	Full Year
Mathematical Methods A & B	Full Year
OR General Mathematics A & B	Full Year or Semester
Research Project (SACE Stage 2)	1 Semester

CHOICE SUBJECTS

Agriculture A & B *(Full Year only)*
Biology A and/or B
Chemistry A & B *(Full Year only)*
Child Studies
Creative Arts/Visual Arts
Design and Technology (Automotive focus)
Digital Communication (Photography focus)
Digital Technology
Food and Hospitality A and/or B
Geography
History (Modern)
Information Processing & Publishing
Material Solutions (Furniture Construction or Metal Engineering)
Sport & Recreation A and/or B (Integrated Learning)
Physics A & B *(Full Year only)*
Specialist Mathematics A & B *(Full Year only)*

AGRICULTURE A & B

Contact: PHIL ROBERTS

Course Length Full Year **SACE Credits:** 20

Description Students analyse benefits and risks of different methods of agricultural production, and develop their awareness of how agriculture impacts on their lives, society, and the environment. They develop skills in critical thinking that inspire them to explore strategies and possible solutions to address challenges now and in the future, such as those related to the global food supply. They explore and understand agricultural science as a human endeavour, and are encouraged to pursue future pathways, including in agriculture, horticulture, land management, agricultural business practice, natural resource management, veterinary science, food and marine sciences, biosecurity, and quarantine.

Recommended Background Year 10 Agriculture

Additional Costs/Information Appropriate clothing and footwear must be worn. Show Team uniform is a requirement for some students.

BIOLOGY A

Contact: HANNAH SCOTT

Course Length 1 Semester **SACE Credits:** 10

Description The study of Biology is constructed around inquiry into and application of understanding the diversity of life as it has evolved, the structure and function of living things, and how they interact with their own and other species and their environments.

In Biology A, students study the topic of Cells & Microorganisms and Infectious Diseases. This course is recommended for students looking to further study in medical or animal science fields.

Recommended Background Year 10 Science

Additional Costs/Information Nil

BIOLOGY B

Contact: HANNAH SCOTT

Course Length 1 Semester **SACE Credits:** 10

Description The study of Biology is constructed around inquiry into and application of understanding the diversity of life as it has evolved, the structure and function of living things, and how they interact with their own and other species and their environments.

In Biology B, students study the topic of Multicellular Organisms (including human body systems) and Biodiverusty & Ecosystems. This course is recommended for students looking to further study in medical or plant science fields.

Recommended Background Year 10 Science

Additional Costs/Information Nil

CHEMISTRY A & B

Contact: HANNAH SCOTT

Course Length Full Year **SACE Credits:** 20

Description Science inquiry skills and science as a human endeavour are integral to students' learning in this subject and are interwoven through the science understanding. In their study of Chemistry, students develop and extend their understanding of some of the fundamental principles and concepts of chemistry, including structure, bonding, polarity, solubility, acid-base reactions, and redox. These are introduced in the individual topics, with the mole concept and some energy concepts introduced gradually throughout these topics. Students develop and extend their inquiry skills, including in designing and undertaking investigations, and collecting and analysing primary and secondary data. They interpret and evaluate data, and synthesise and use evidence to construct and justify conclusions.

Recommended Background Successful completion of Year 10 Science

Additional Costs/Information Nil

CHILD STUDIES

Contact: HANNAH SCOTT

Course Length 1 Semester **SACE Credits:** 10

Description Child Studies focuses on children and their development from conception to 8 years. Students have the opportunity to develop knowledge and understanding of young children through individual, collaborative, and practical learning. They explore concepts such as the development, needs, and rights of children, the value of play, concepts of childhood and families, and the roles of parents and caregivers. They also consider the importance of behaviour management, child nutrition, and the health and well-being of children.

Recommended Background Nil

Additional Costs/Information Nil

CREATIVE ARTS / VISUAL ARTS

Contact: TIFF LENG

Course Length 1 Semester **SACE Credits:** 10

Description Students undertake a specialised study within or across one or more arts disciplines. They actively participate in the development and presentation of creative arts products. These may take the form of, for example, visual art, craft and design works, digital media, film and video, public arts projects, community presentations and installations. Students analyse and evaluate creative arts products in different contexts and from various perspectives, and gain an understanding and appreciation of the ways in which creative arts contribute to and shape the intellectual, social, and cultural life of individuals and communities.

Recommended Background Year 10 Visual Art is recommended but not compulsory.

Additional Costs/Information Some additional costs may be incurred depending upon materials used.

DESIGN AND TECHNOLOGY (AUTOMOTIVE FOCUS)

Contact: LEIGH WADE

Course Length 1 Semester **SACE Credits:** 10

Description Students will study the internal combustion engine and associated vehicle systems including the combustion process, components/configurations, electrical circuits, sustainability, impact on society and service and repair. Students will undertake investigations into the current automotive industry with the emphasis being on the internal combustion engine and the environment. They will also investigate future trends and alternative energy sources. Students will be able to discuss and investigate possible career paths within the automotive industry. Students will also develop and produce simple electrical circuit using circuit wizard.n

Recommended Background Nil

Additional Costs/Information Some additional costs may be incurred depending upon materials used. Closed in footwear is essential.

DIGITAL COMMUNICATION (PHOTOGRAPHY FOCUS)

Contact: HANNAH SCOTT

Course Length 1 Semester **SACE Credits:** 10

Description Students work within the design criteria of investigating, planning, producing and evaluating to produce a photographic based communication product. Skills are gained in digital camera operation, Photoshop image enhancement, studio and lighting techniques. A design brief is devised to which the success of the product is evaluated against. The impact of photography and media on individuals and society is addressed in a written report.

Recommended Background Year 10 Visual Art is recommended but not compulsory.

Additional Costs/Information Nil

DIGITAL TECHNOLOGY

Contact:

Course Length 1 Semester **SACE Credits:** 10

Description Students create practical, innovative solutions to problems of interest. By extracting, interpreting, and modelling real-world data sets, students identify trends to examine sustainable solutions to problems in, for example, business, industry, the environment and the community. They investigate how potential solutions are influenced by current and projected social, economic, environmental, scientific, and ethical considerations, including relevance, originality, appropriateness, and sustainability.

Recommended Background Year 10 Digital Technology

Additional Costs/Information Nil

ENGLISH

Contact: STEPHANIE LEE

Course Length Full Year **SACE Credits:** 20

Description This subject has an emphasis on responding to texts, creating texts, and intertextual study. Students critically and creatively engage with a variety of types of texts including novels, film, media, poetry, and drama texts. Stage 1 English articulates with the Stage 2 English subjects.

Recommended Background Recommendation of Year 10 English Teacher

Additional Costs/Information Nil

FOOD AND HOSPITALITY A AND/OR B

Contact: HANNAH SCOTT

Course Length 1 Semester **SACE Credits:** 10 or 20

Description Students focus on the dynamic nature of the food and hospitality industry in Australian society. They develop an understanding of contemporary approaches and issues related to food and hospitality. Students work independently and collaboratively to achieve common goals. They develop skills and safe work practices in the preparation, storage and handling of food, complying with current health and safety legislation. Students investigate and debate contemporary food and hospitality issues and current management practices.

Recommended Background Year 10 Food Technology is recommended but not compulsory.

Additional Costs/Information Closed in footwear is essential. Some additional time outside of lessons may be required to complete practicals.

GENERAL MATHEMATICS A

Contact: DEMCEY MENTINK

Course Length 1 Semester **SACE Credits:** 10

Description General Mathematics extends students' mathematical skills in ways that apply to practical problem-solving. Successful completion of General Mathematics at Stage 2 prepares students for entry to tertiary courses requiring a non-specialised background in mathematics.

In General Mathematics A, students study the topics of investing and borrowing; measurement and statistical investigation.

Recommended Background Completion of Year 10 Maths

Additional Costs/Information A graphics calculator is strongly recommended (approximately $180).

GENERAL MATHEMATICS B

Contact: DEMCEY MENTINK

Course Length 1 Semester **SACE Credits:** 10

Description

General Mathematics extends students' mathematical skills in ways that apply to practical problem-solving. Successful completion of General Mathematics at Stage 2 prepares students for entry to tertiary courses requiring a non-specialised background in mathematics.

In General Mathematics B, students study the topics of applications of trigonometry; linear and exponential functions; matrices and networks. This course forms the background knowledge for General Mathematics at Stage 2.

Recommended Background Completion of Year 10 Maths

Additional Costs/Information A graphics calculator is strongly recommended (approximately $180).

GEOGRAPHY

Contact: TIFF LENG

Course Length 1 Semester **SACE Credits:** 10

Description

Students develop an understanding of the spatial interrelationships between people, places, and environments. They appreciate the complexity of our world, the diversity of its environments, and the challenges and associated opportunities facing Australia and the world.

Geography develops an appreciation of the importance of place in explanations of economic, social, and environmental phenomena and processes. It provides a systematic, integrative way of exploring, analysing, and applying the concepts of place, space, environment, interconnection, sustainability, scale, and change. Students identify patterns and trends and explore and analyse geographical relationships and interdependencies. They use this knowledge to promote a more sustainable way of life and an awareness of social and spatial inequalities.

Recommended Background Recommendation of Year 10 HASS Teacher

Additional Costs/Information Nil

HISTORY (MODERN)

Contact:

Course Length 1 Semester **SACE Credits:** 10

Description

In the study of Modern History at Stage 1, students explore changes within the world since 1750, examining developments and movements of significance, the ideas that inspired them, and their short- and long-term consequences on societies, systems, and individuals. Students build their skills in historical method through inquiry, by examining and evaluating the nature of sources, including who wrote or recorded them, whose history they tell, whose stories are not included and why, and how technology is creating new spaces in which histories can be conveyed. Students explore different interpretations, draw conclusions, and develop reasoned historical arguments.

Recommended Background Recommendation of Year 10 HASS Teacher

Additional Costs/Information Nil

INFORMATION PROCESSING & PUBLISHING

Contact: JARED WALLIS

Course Length 1 Semester **SACE Credits:** 10

Description Students apply practical skills and design principles to provide creative solutions to text-based communication tasks. They create both hard copy and electronic text-based publications, and evaluate the development process. Students use technology to design and implement information processing solutions, and identify, choose, and use the appropriate computer hardware and software to process, manage and communicate information in a range of contexts.

Recommended Background Year 10 Digital Technology

Additional Costs/Information Nil

LITERARY STUDIES

Contact: STEPHANIE LEE

Course Length Full Year **SACE Credits:** 20

Description English Literary Studies focuses on the skills and strategies of critical thinking needed to interpret texts. Through shared and individual study of texts, students encounter different opinions about texts, have opportunities to exchange and develop ideas, find evidence to support a personal view, learn to construct logical and convincing arguments, and consider a range of critical interpretations of texts.

Recommended Background Recommendation of Year 10 English Teacher

Additional Costs/Information Nil

MATERIAL SOLUTIONS (METAL OR WOODWORK FOCUS)

Contact: LEIGH WADE

Course Length 1 Semester **SACE Credits:** 10

Description This subject involves the use of a diverse range of manufacturing technologies such as tools, machines, and/or systems to create a product using appropriate materials. Students produce outcomes that demonstrate the knowledge and skills associated with using systems, processes, and materials such as metals, plastics, wood and composites.

Recommended Background Year 10 Technology Studies is recommended but not compulsory.

Additional Costs/Information Some additional costs may be incurred depending upon materials used. Closed in footwear is essential.

MATHEMATICAL METHODS A AND B

Contact: DEMCEY MENTINK

Course Length Full Year **SACE Credits:** 20

Description Mathematical Methods can lead to tertiary studies of, for example, economics, computer sciences, and the sciences. It prepares students for courses and careers that may involve the use of statistics, such as health or social sciences. Topics include: functions and graphs; polynomials; trigonometry; statistics; growth and decay; introduction to differential calculus.

Recommended Background Completion of Year 10 Mathematics to a B grade or higher.

Additional Costs/Information A graphics calculator is required (approximately $180).

PHYSICS A AND B

Contact: HANNAH SCOTT

Course Length Full Year **SACE Credits:** 20

Description Science inquiry skills and science as a human endeavour are integral to students' learning in this subject and are interwoven through the science understanding. In their study of Physics, students extend their understanding of natural phenomena, from the subatomic world to the macrocosmos, and to make predictions about them, using qualitative and quantitative models, laws, and theories to better understand matter, forces, energy, and the interaction among them. By studying physics, students understand how new evidence can lead to the refinement of existing models and theories and to the development of different, more complex ideas, technologies, and innovations. Students develop and extend their inquiry skills, including in designing and undertaking investigations, and collecting and analysing primary and secondary data. They interpret and evaluate data, and synthesise and use evidence to construct and justify conclusions.

Recommended Background Recommendation of Year 10 Science Teacher

Additional Costs/Information Nil

SPECIALIST MATHEMATICS A AND B

Contact: DEMCEY MENTINK

Course Length Full Year **SACE Credits:** 20

Description Specialist Mathematics can be a pathway to mathematical sciences, engineering, and physical sciences. Specialist Mathematics must be studied in conjunction with Mathematical Methods. Topics include: sequences and series; geometry; vectors in the plane; further trigonometry; matrices; real and complex numbers.

Recommended Background Completion of Year 10 Mathematics to an A grade or successful completion of Year 10 Extension Mathematics.

Additional Costs/Information A graphics calculator is required (approximately $180).

SPORT & RECREATION A AND/OR B

Contact: JARED WALLIS

Course Length Full Year or 1 Semester **SACE Credits:** 10 or 20

Description Through Sport and Rec, students explore their physical capabilities in a range of sports and investigate the factors that influence and improve participation and performance outcomes, which lead to greater movement confidence and competence. Through the experiential learning students will also engage in direct and personal experiences in a variety of natural environments to reflect on their study of natural areas and their potential to promote personal development, group development, health and well-being, environmental learning, sustainable living, and social justice. Students will develop skills, knowledge, and understanding of safe and sustainable outdoor experiences in the key areas of preparation and planning, managing risk, leadership and decision-making, and self-reliance skills. This subject has a compulsory Surf (semester 1) and Bushwalking (semester 2) camp.

Recommended Background Nil

Additional Costs/Information 1 compulsory camp per semester.

SACE STAGE 2
SUBJECT OFFERINGS FOR 2025

SUBJECT SELECTION

All SACE Stage 2 students study a selection of the subjects below.

Students who have successfully completed the required number of subjects at SACE Stage 1 will choose 4 subjects at SACE Stage 2. Most SACE Stage 2 subjects are studied for a full year.

SACE Stage 2 students should take into account their future pathways to tertiary education, further training, apprenticeship or the workforce.

SACE STAGE 2 CURRICULUM

Agriculture
Biology
Chemistry
Child Studies
Creative Arts / Visual Arts
Digital Communication (Photography)
Digital Technology
English
Food and Hospitality
General Mathematics
Geography
History (Modern)
Information Processing & Publishing
Literary Studies
Material Solutions (Metalwork or Woodwork)
Mathematical Methods
Physics
Specialist Mathematics
Sport & Recreation (Integrated Learning)
Workplace Practices

AGRICULTURE

Contact: PHIL ROBERTS

Course Length Full Year **SACE Credits:** 20

Description This subject focuses on agribusiness and agricultural and horticultural enterprises. Students learn the ways in which primary goods are produced, processed, value-added, and marketed, what an enterprise looks like, and how businesses are structured and operate.

Recommended Background Stage 1 Agriculture

Additional Costs/Information Appropriate clothing and footwear must be worn. Show Team uniform is a requirement for some students.

BIOLOGY

Contact: DEMCEY MENTINK

Course Length Full Year **SACE Credits:** 20

Description Students learn about the cellular structures and functions of a range of organisms. They have the opportunity to engage with the work of biologists and to join and initiate debates about how biology impacts on their lives, society, and the environment. Students design, conduct, and gather evidence from their biological investigations. As they explore a range of relevant issues, students recognise that the body of biological knowledge is constantly changing and increasing through the application of new ideas and technologies. Topics covered: DNA & Proteins; Cells; Homeostasis; Evolution.

Recommended Background 1 Semester of Stage 1 Biology

Additional Costs/Information Study Guide (approximately $30)

CHEMISTRY

Contact: DEMCEY MENTINK

Course Length Full Year **SACE Credits:** 20

Description Students develop and extend their understanding of how the physical world is chemically constructed, the interaction between human activities and the environment, and the use that human beings make of the planet's resources. The study of Chemistry helps students to make informed decisions about interacting with and modifying nature, and explore options such as green or sustainable chemistry, which seeks to reduce the environmental impact of chemical products and processes. Students integrate and apply a range of understanding, inquiry, and scientific thinking skills that encourage and inspire them to contribute their own solutions to current and future problems and challenges, and pursue future pathways, including in medical or pharmaceutical research, pharmacy, chemical engineering, and innovative product design. Topics include: monitoring the environment; managing chemical processes; organic and biological chemistry; and managing resources.

Recommended Background Full Year of Stage 1 Chemistry

Additional Costs/Information Study Guide (approximately $30)

CHILD STUDIES

Contact: HANNAH SCOTT

Course Length Full Year **SACE Credits:** 20

Description Child Studies focuses on children and their development from conception to 8 years. Students have the opportunity to develop knowledge and understanding of young children through individual, collaborative, and practical learning. They explore concepts such as the development, needs, and rights of children, the value of play, concepts of childhood and families, and the roles of parents and caregivers. They also consider the importance of behaviour management, child nutrition, and the health and well-being of children.

Recommended Background Nil

Additional Costs/Information Nil

CREATIVE ARTS/VISUAL ARTS

Contact: TIFFANY LENG

Course Length Full Year **SACE Credits:** 20

Description This subject gives students the opportunity for specialised study within and across arts disciplines. They actively participate in the development and presentation of creative arts products. Students analyse and evaluate creative arts products in different contexts and from various perspectives. They gain an understanding and appreciation of the ways in which creative arts contribute to and shape the intellectual, social, and cultural life of individuals and communities.

Recommended Background 1 Semester of any Stage 1 Art

Additional Costs/Information Some additional costs may be incurred depending upon materials used.

DIGITAL COMMUNICATION (PHOTOGRAPHY)

Contact: HANNAH SCOTT

Course Length Full Year **SACE Credits:** 20

Description Students work within the design criteria of investigating, planning, producing and evaluating to design and produce a photographic based communication product. A high level of practical skill is gained in digital camera operation, studio, and lighting techniques. Photoshop software is extensively used to enhance images. Emphasis is placed on analysis of media and product design elements. These are investigated and a design brief is created for a final product. A folio of work documents this process.

Recommended Background 1 Semester of any Stage 1 Art

Additional Costs/Information Nil

DIGITAL TECHNOLOGY

Contact:

Course Length 1 Semester **SACE Credits:** 10

Description Students create practical, innovative solutions to problems of interest. By extracting, interpreting, and modelling real-world data sets, students identify trends to examine sustainable solutions to problems in, for example, business, industry, the environment and the community. They investigate how potential solutions are influenced by current and projected social, economic, environmental, scientific, and ethical considerations, including relevance, originality, appropriateness, and sustainability.

Recommended Background Year 11 Digital Technology

Additional Costs/Information Nil

ENGLISH

Contact: STEPHANIE LEE

Course Length Full Year **SACE Credits:** 20

Description In English students analyse the interrelationship of author, text, and audience, with an emphasis on how language and stylistic features shape ideas and perspectives in a range of contexts. They consider social, cultural, economic, historical, and/or political perspectives in texts and their representation of human experience and the world. Students explore how the purpose of a text is achieved through application of text conventions and stylistic choices to position the audience to respond to ideas and perspectives. They have opportunities to reflect on their personal values and those of other people by responding to aesthetic and cultural aspects of texts from the contemporary world, from the past, and from Australian and other cultures. Students who complete this subject with a C– grade or better will meet the literacy requirement of the SACE.

Recommended Background Successful completion of Stage 1 English

Additional Costs/Information Nil

FOOD AND HOSPITALITY

Contact: HANNAH SCOTT

Course Length Full Year **SACE Credits:** 20

Description Students develop an understanding of contemporary approaches and issues related to food and hospitality. They work independently and collaboratively to achieve common goals. Students develop skills and safe work practices in the preparation, storage and handling of food, complying with current health and safety legislation. They investigate and debate contemporary issues in the food and hospitality industry and current management practices.

Recommended Background Stage 1 Food and Hospitality

Additional Costs/Information Closed in footwear is essential. Some additional time outside of lessons may be required to complete practicals.

GENERAL MATHEMATICS

Contact: DEMCEY MENTINK

Course Length Full Year **SACE Credits:** 20

Description General Mathematics extends students' mathematical skills in ways that apply to practical problem-solving. A problem-based approach is integral to the development of mathematical models and the associated key concepts. Successful completion of General Mathematics at Stage 2 prepares students for entry to tertiary courses requiring a non-specialised background in mathematics. Topics include: modelling with linear relationships; modelling with matrices; statistical models; financial models; discrete models.

Recommended Background Successful completion of a Full Year of Stage 1 General Mathematics

Additional Costs/Information A graphics calculator is essential (approximately $180). Study Guide for exam revision (approximately $30)

GEOGRAPHY

Contact:

Course Length Full Year **SACE Credits:** 20

Description Geography develops an appreciation of the importance of place in explanations of economic, social, and environmental phenomena and processes. It provides a systematic, integrative way of exploring, analysing, and applying the concepts of place, space, environment, interconnection, sustainability, scale, and change. Students identify patterns and trends and explore and analyse geographical relationships and interdependencies. They use this knowledge to promote a more sustainable way of life and an awareness of social and spatial inequalities. Topics include: Ecosystems & People; Climate Change; Population Change; Globalisation; Transforming Global Inequality.

Recommended Background 1 Semester of Stage 1 Geography

Additional Costs/Information Nil

HISTORY (MODERN)

Contact:

Course Length Full Year **SACE Credits:** 20

Description Students research and review sources within a framework of inquiry and critical analysis, and make sense of a complex and rapidly changing world by connecting past and present. Through the study of past events, actions, and phenomena since c.1500 students gain an insight into human nature and the ways in which individuals and societies function.

Recommended Background 1 Semester of Stage 1 History

Additional Costs/Information Nil

INFORMATION PROCESSING & PUBLISHING

Contact: JARED WALLIS

Course Length Full Year **SACE Credits:** 10

Description Students apply practical skills and design principles to provide creative solutions to text-based communication tasks. They create both hard copy and electronic text-based publications, and evaluate the development process. Students use technology to design and implement information processing solutions, and identify, choose, and use the appropriate computer hardware and software to process, manage and communicate information in a range of contexts.

Recommended Background Year 11 Information Processing & Publishing

Additional Costs/Information Nil

LITERARY STUDIES

Contact: STEPHANIE LEE

Course Length Full Year **SACE Credits:** 20

Description English Literary Studies focuses on ways in which literary texts represent culture and identity, on the dynamic relationship between authors, texts, audiences, and contexts, and on the skills and strategies of critical thinking needed to interpret texts. Through shared and individual study of texts, students encounter different opinions about texts, have opportunities to exchange and develop ideas, find evidence to support a personal view, learn to construct logical and convincing arguments, and consider a range of critical interpretations of texts. Students develop an understanding of the power of language to represent ideas, events, and people in particular ways and of how texts challenge or support cultural perceptions. Students who complete this subject with a C– grade or better will meet the literacy requirement of the SACE.

Recommended Background Successful completion of Stage 1 English AND recommendation of English Teacher

Additional Costs/Information Nil

MATERIAL SOLUTIONS (METALWORK OR WOODWORK)

Contact: LEIGH WADE

Course Length Full Year **SACE Credits:** 20

Description This subject involves the use of a diverse range of manufacturing technologies such as tools, machines, and/or systems to create a product using appropriate materials. Students produce outcomes that demonstrate the knowledge and skills associated with using systems, processes, and materials such as metals, plastics, wood and composites.

Recommended Background 1 Semester of any Stage 1 Tech Studies

Additional Costs/Information Some additional costs may be incurred depending upon materials used. Closed in footwear is essential.

MATHEMATICAL METHODS

Contact: DEMCEY MENTINK

Course Length Full Year **SACE Credits:** 20

Description Mathematical Methods further extends students' mathematical knowledge, skills, and understanding, and includes the study of calculus and statistics. Mathematical Methods provides the foundation for further study in mathematics, economics, computer sciences, the sciences, and careers that may involve the use of statistics, such as health or social sciences. When studied together with Specialist Mathematics, this subject can be a pathway to engineering, physical science, and laser physics. Topics include: further differentiation and applications; discrete random variables; integral calculus; logarithmic functions; continuous random variables and the normal distribution; sampling and confidence intervals.

Recommended Background Successful completion of a Full Year of Stage 1 Mathematical Methods

Additional Costs/Information A graphics calculator is essential (approximately $180). Study Guide for exam revision (approximately $25)

PHYSICS

Contact: HANNAH SCOTT

Course Length Full Year **SACE Credits:** 20

Description This subject requires the interpretation of physical phenomena through a study of motion in two dimensions, electricity and magnetism, light and matter, and atoms and nuclei. Students apply knowledge to solve problems, develop experimental and investigation design skills, and communicate through practical and other learning activities. They gather evidence from experiments, and research and acquire new knowledge through their own investigations.

Recommended Background Full Year of Stage 1 Physics

Additional Costs/Information Study Guide (approximately $30)

SPECIALIST MATHEMATICS

Contact: DEMCEY MENTINK

Course Length Full Year **SACE Credits:** 20

Description Specialist Mathematics draws on and deepens students' mathematical knowledge, skills, and understanding, and provides opportunities for students to develop their skills in using rigorous mathematical arguments and proofs, and using mathematical models. It includes the study of functions and calculus. The subject leads to study in a range of tertiary courses such as mathematical sciences, engineering, computer science, and physical sciences. Specialist Mathematics is designed to be studied in conjunction with Mathematical Methods. Topics include: mathematical induction; complex numbers; functions and sketching graphs; vectors in three dimensions; integration techniques and applications; rates of change and differential equations.

Recommended Background Successful completion of a Full Year of Stage 1 Specialist Mathematics

Additional Costs/Information A graphics calculator is essential (approximately $180). Study Guide for exam revision (approximately $30)

SPORT & RECREATION

Contact: JARED WALLIS

Course Length Full Year **SACE Credits:** 20

Description Through Sport and Rec, students explore their physical capabilities in a range of sports and investigate the factors that influence and improve participation and performance outcomes, which lead to greater movement confidence and competence. Through the experiential learning students will also engage in direct and personal experiences in a variety of natural environments to reflect on their study of natural areas and their potential to promote personal development, group development, health and well-being, environmental learning, sustainable living, and social justice. Students will develop skills, knowledge, and understanding of safe and sustainable outdoor experiences in the key areas of preparation and planning, managing risk, leadership and decision-making, and self-reliance skills. This subject has a compulsory Bushwalking and Surf camp.

Recommended Background 1 Semester of Stage 1 Sport & Recreation OR Outdoor Education

Additional Costs/Information 2 compulsory camps.

WORKPLACE PRACTICES

Contact: JARED WALLIS

Course Length Full Year **SACE Credits:** 20

Description Students develop knowledge, skills, and understanding of the nature, type and structure of the workplace. They learn about the value of unpaid work to society, future trends in the world of work, workers' rights and responsibilities and career planning.

Workplace Practices is designed for students who are participating in appreticeships or VET training. It has three areas of study: industry and work knowledge; vocational learning; and VET.

Recommended Background Nil

Additional Costs/Information Must be enrolled in a VET training course or school-based apprenticeship.

VOCATIONAL PATHWAYS

Vocational Education and Training (VET) is a vital part of the broad range of study pathways available to students at CAS. Students can achieve their SACE while gaining industry qualifications and experience at the same time. Through our partnership with other schools in the region, we are able to offer a large number of vocational pathways, some on-site at CAS and others within travelling distance at a near-by school.

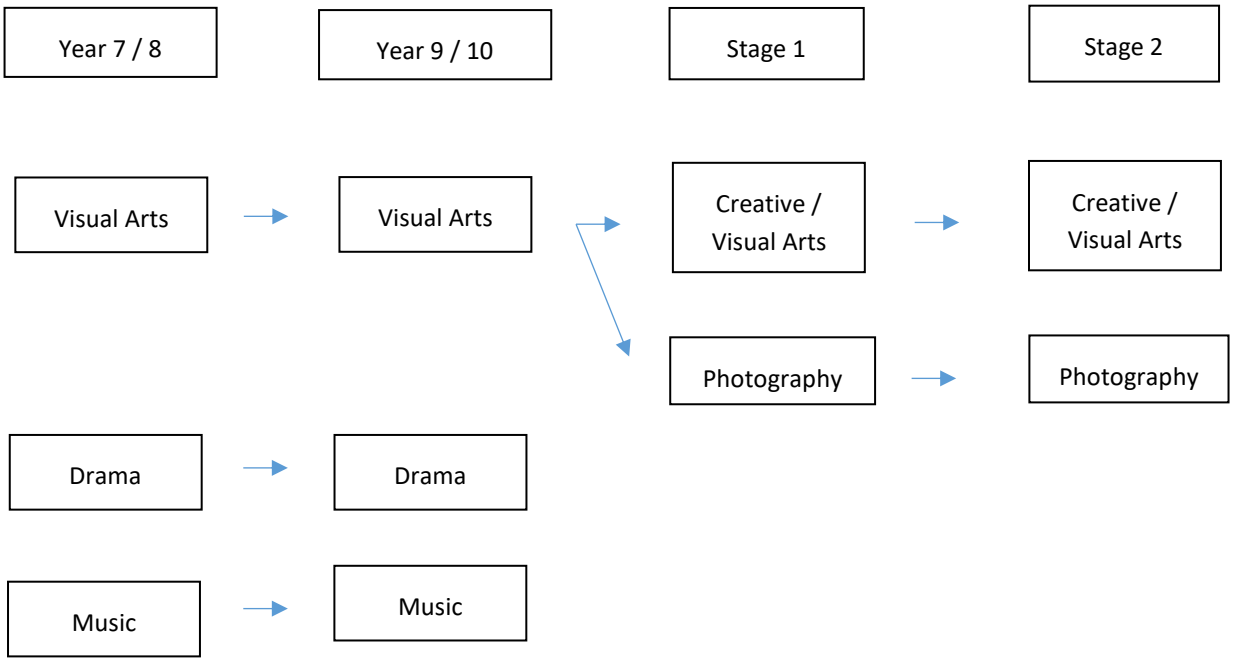
Pathways are available in the following industries:

- **Agriculture**
- **Building & Construction**
- **Education & Early Childhood**
- **Electrotechnology**
- **Engineering**
- **Hair & Beauty**
- **Health & Health Services**
- **Resources & Infrastructure**
- **Screen & Media**
- **Tourism, Hospitality & Event Management**
- **VET Automotive**

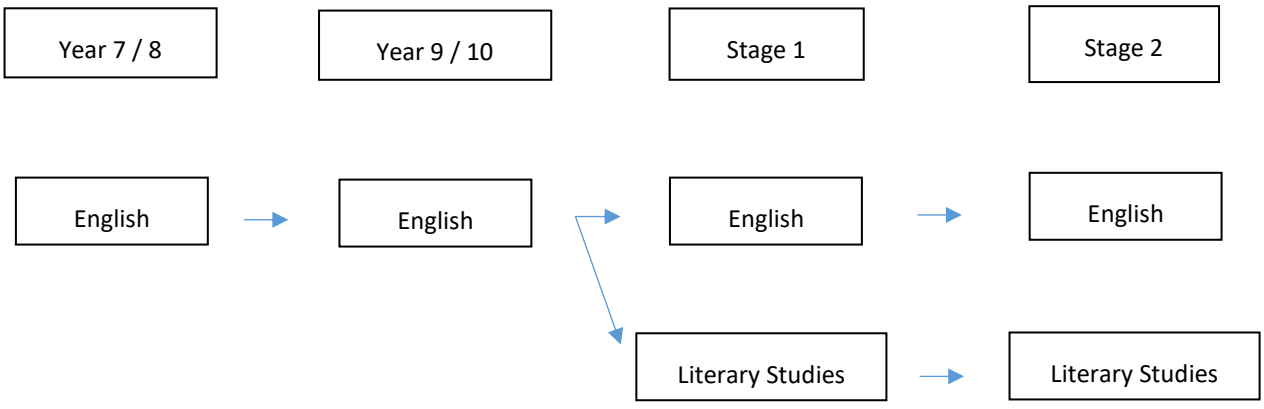
Further information about the courses available can be found at the Murray Mallee Student Pathways site.

SUBJECT PATHWAY FLOWCHART

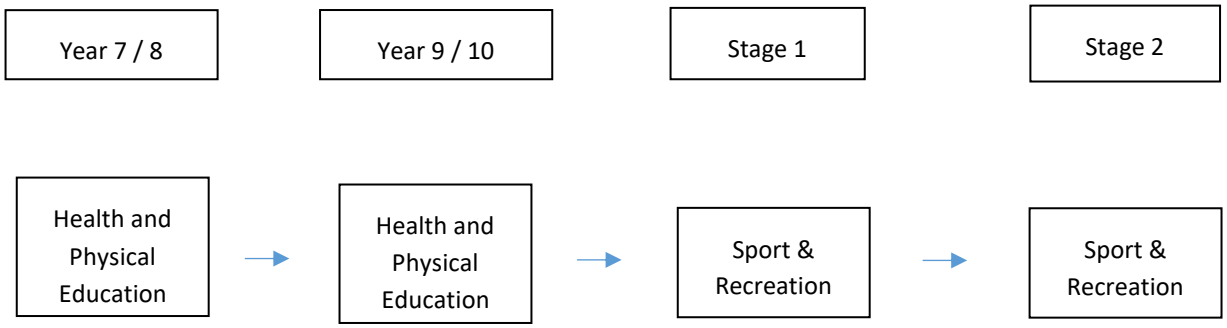
THE ARTS



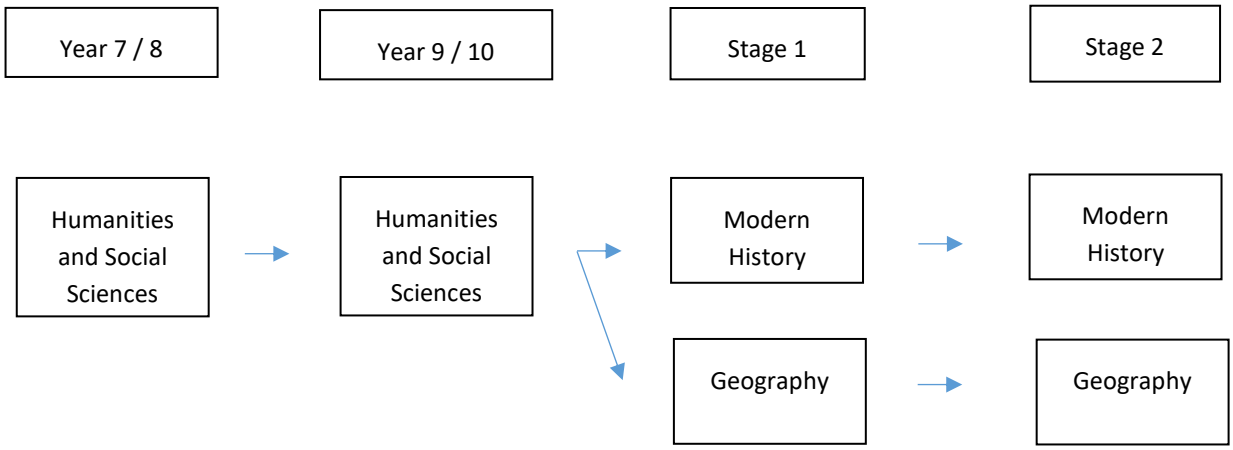
ENGLISH



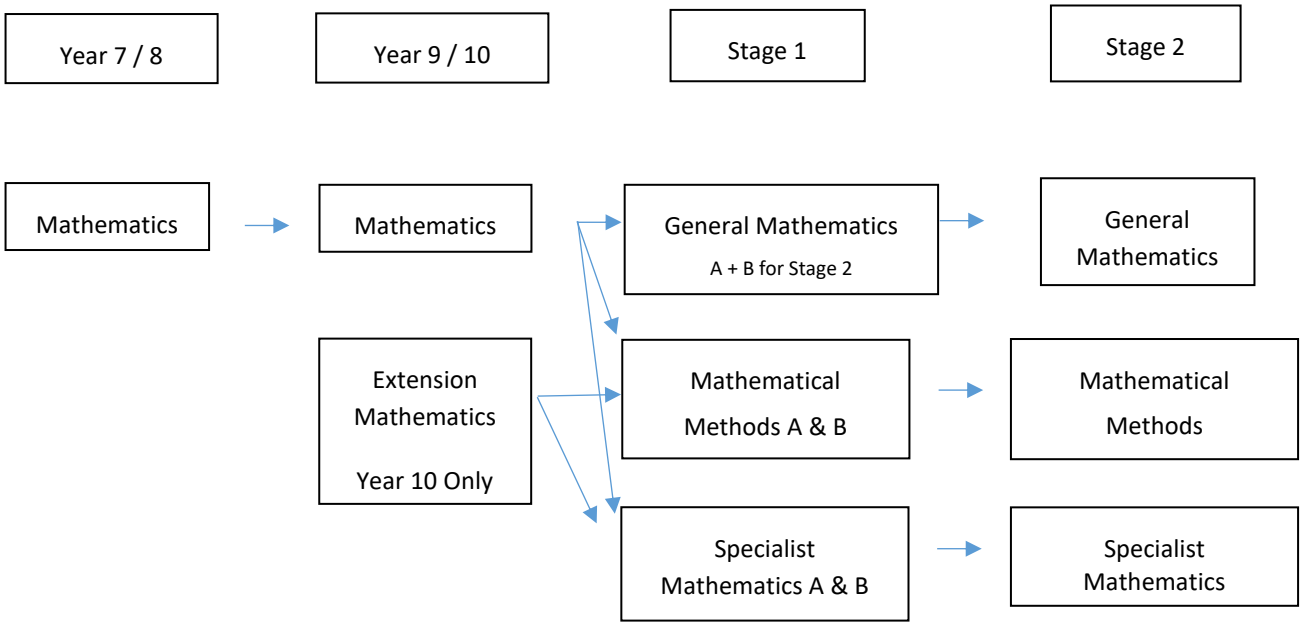
HEALTH AND PHYSICAL EDUCATION



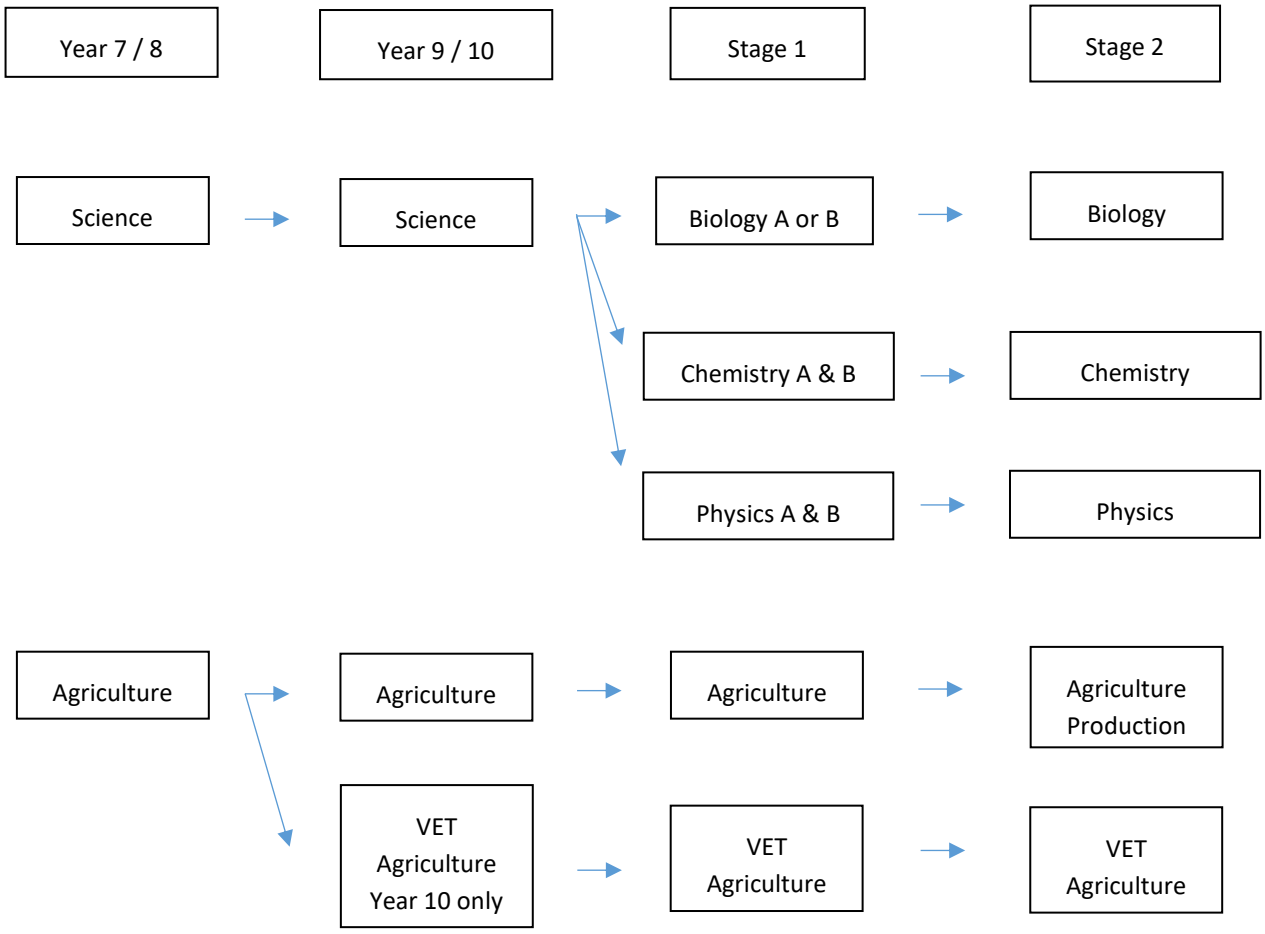
HUMANITIES AND SOCIAL SCIENCES



MATHEMATICS



SCIENCE


Year 7 / 8
Year 9 / 10
Stage 1
Stage 2
Science
Science
Biology A or B
Biology
Chemistry A & B
Chemistry
Physics A & B
Physics
Agriculture
Agriculture
Agriculture
Agriculture Production
VET Agriculture Year 10 only
VET Agriculture
VET Agriculture

TECHNOLOGIES