THE FACT THAT A SUBJECT DESCRIPTOR APPEARS IN THIS BOOKLET DOES NOT NECESSARILY MEAN THAT THE SUBJECT WILL RUN NEXT YEAR. THE DECISION FOR THE SUBJECT TO RUN WILL ULTIMATELY BE DETERMINED BY THE STAFFING ALLOCATION AND CLASS SIZE AT THE BEGINNING OF THE YEAR.
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This Handbook outlines the curriculum pattern for Year 8 and 9.

Subject offerings in each faculty area are listed with descriptions of the anticipated learning areas, assessment information, special requirements of each course, and the possible pathways to future study and learning opportunities.

The Waikerie High School curriculum is based on the Australian Curriculum. All students will be provided with opportunities to fulfill their educational potential, to develop the skills necessary to be active participants in society and to foster the notion of life-long learners in a safe and caring environment.

Waikerie High School provides a setting for highly effective learning. As a result, students can expect to:

- Experience a flexible curriculum based on the needs of each student
- Take part in inquiry based work
- Make choices and take responsibility for their own learning within a supportive environment
- Demonstrate their progress and achievements in a multiple of ways
- Become highly skilled in the use of Information and Communication Technologies (ICT’s) in their learning
- Develop self-discipline to respect the rights of others to learn and uphold the school values
- Develop a positive sense of self
- Develop high order communication skills

Students and parents should use this handbook to help plan learning pathways and future directions. This planning will not be done in isolation but with the help of counsellors, subject teachers, homegroup teachers and faculty coordinators. Please make use of this support to help tailor study options to the needs of each individual student.

Rob McLaren
Principal
Waikerie High School
YEAR 8 SUBJECT OFFERINGS

Students in Year 8 will study a full year of English, Health and Physical Education, Mathematics, Science, Humanities and Social Sciences, Technology (Woodwork, Metalwork, Digital Technology and Electronics), and the Arts (Visual Arts, Music, Drama and Photography).

YEAR 9 SUBJECT OFFERINGS

Students will study seven subjects each semester (a total of 14 semester units). The following gives an overview of the compulsory and choice subjects.

COMPULSORY SUBJECTS

1. Mathematics – 2 semesters
2. English – 2 semesters
3. Science - 2 semesters
4. Humanities and Social Sciences – 2 semesters
5. Health and Physical Education – 1 semester

CHOICE SUBJECTS

Students are to select one subject from the Arts group of subjects, one from the Technology group and four other subjects from any list. (You will only need five choice subjects but we ask you to select six in case one of your choices will not fit the timetable.)

Refer to the subjects listed in this Handbook.

ARTS
Visual Arts A
Visual Arts B
Drama
Music

TECHNOLOGY
Design Technology - Woodwork
Design Technology - Metalwork
Electronics
Home Economics
Digital Technology/Robotics

OTHER SUBJECTS
Phys Ed Specialist
Agriculture A
Agriculture B
Language - Spanish
THE ARTS – For further information please contact The Arts Coordinator

Year 8
- Visual Arts (Semester)

Year 9
- Visual Arts (Semester)

Year 10
- Multi Arts (Semester 1)
- Multi Arts (Semester 2)

Year 11
- Visual Arts 1
- Visual Arts 2
- Design

Year 12
- Visual Arts – Arts (TAS)
- Visual Arts - Design (TAS)

Performing Arts (Semester)
- Music (Semester)
- Drama (Semester)

Music (Semester)
- Music
- Music A
- Music B

Drama (Semester)
- Drama
- Drama A
- Drama B
- Drama (TAS)
THE ARTS

VISUAL ARTS

YEAR LEVEL: 8  LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: Students are introduced to the elements of Art, Sculpture and Design through a range of practical and theoretical components. The basic elements of Art are covered – line, shape, form, space, colour, tone, texture, balance, layout and composition. The practical component involves drawing, painting, printmaking, clay and graphic design. The theoretical component involves a range of written information on the areas covered.

ASSESSMENT: Assessment is through ongoing appraisal of class work theory, ideas and developmental work, which should be maintained in a sketchbook. Students need to maintain a notebook and drawing equipment of their own.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

VISUAL ARTS

YEAR LEVEL: 9  LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: Year 8 Art.

CONTENT: This subject further develops core elements of visual arts: line, shape, form, space, colour, tone, texture, balance, layout and construction. Students will continue developing their skills in the areas of drawing, painting, sculpture, printing, and design. An appropriate art history project and analysis of other artist’s work will also be covered.

ASSESSMENT: Ongoing appraisal of class work; the generation of ideas, research, and the refining and development of the artwork will be formally assessed at the end of each project; presentation and reflection of final art projects; a test covering art history and analysis.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.
PERFORMING ARTS

YEAR LEVEL: 8 LENGTH OF SUBJECT: Term

PREFERRED BACKGROUND: No pre-requisites.

Drama - CONTENT: Students are introduced to Drama as a topic. The subject includes exercises in concentration, cooperation, problem-solving, trust, teamwork and playmaking with emphasis on the development of self-confidence and self-esteem. Practical skills are developed in the following areas: stage outline, body language, facial expressions, movement, blocking, focus, levels, status, voice, mime, characterisation, story-telling and narrative.

Music - CONTENT: This unit exposes students to a broader musical experience. The focus is on musical learning through use of the voice and the development of basic instrumental skills. Students will also gain skills and understanding in the areas of performance, improvisation, composition, basic theory, genres of music and instrument families. Students have the optional opportunity and are encouraged to undertake tuition on a brass, percussion or woodwind instrument with teachers from the DECS Instrumental Music Service (IMS).

Assessment: Students are assessed regularly on concentration, creativity, audience skills and participation. Students are assessed on group skills, performance skills and written reflection.

Special Requirements/Costs of Course: Nil.

Drama

Year Level: 9 LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

Content: Practical skills are developed in the following areas: stage positions, elements of drama, improvisation, play building, monologues, researching, review writing, script analysis, script writing and roles within the theatre.

Assessment: Students are assessed regularly on concentration, creativity, audience skills and participation. Students are assessed on group skills, performance skills and written reflection.

Special Requirements/Costs of Course: Nil.
MUSIC

YEAR LEVEL: 9  
LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: At least one term of tuition on an instrument. Compulsory for instrumental music students.

CONTENT: Students are strongly encouraged to undertake/continue instrumental lessons to complement their classroom music. The practical part of this course develops students’ ensemble and solo performance skills through the use of their voice, individual practice time, group work, improvisation and composition. Students will expand on their knowledge of music theory, study the development of Rock’n’Roll from the 1950’s onwards, and begin to use music technology, such as the notation software Sibelius, to support their musical learning.

ASSESSMENT: Students will be assessed on their level of participation and co-operation in class, small group and individual activities, their use of individual practice time and their contribution to various ensembles. Two solo performances, theory tests, use of music technology and research project(s) comprise the remainder of the assessment. IMS students will also receive a report from their instrumental teacher.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Supply of instrument if unavailable from school.
ENGLISH – For further information please contact the English Coordinator

Year 8
- English General (Full Year)

Year 9
- English General (Full Year)

Year 10
- English General (Full Year)
  - English A Semester 10 credits
  - English B Semester 10 credits
  - Essential English A Semester 10 credits
  - Essential English B Semester 10 credits

Year 11
- Literary Studies TAS 20 credits
- English TAS 20 credits
- Essential English (2017) TAS 20 credits

Year 12
- English General (Full Year)
ENGLISH

ENGLISH – (COMPULSORY)

YEAR LEVEL: 8
LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: The introduction of the Australian Curriculum will focus students’ attention on the three strands, namely, Language, Literature and Literacy. Within this framework, students will be presented with a flexible program of language experience, which is designed to promote personal growth and development. The acquisition of language skills is an on-going process.

ASSESSMENT: All aspects of the course are assessed, e.g., written responses, group work, oral activities, assignments, etc.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

ENGLISH – (COMPULSORY)

YEAR LEVEL: 9
LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: Successful completion of Year 8 English.

CONTENT: This is a flexible program of language experience designed to promote personal growth and the development and extension of all English skills: reading, writing, listening, speaking, participating and viewing.

ASSESSMENT: All aspects of the course are assessed, e.g., written responses (both analytical and creative), oral activities, assignments, etc.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.
HEALTH and PERSONAL DEVELOPMENT – For further information please contact the HPE Coordinator

Year 8
- HPE General (Full Year)
- PE Specialist (Semester)
- Home Economics (Semester)

Year 9
- HPE (Semester)
- PE Specialist (Semester)
- Home Economics (Semester)

Year 10
- HPE (Semester)
- Physical Education 1 (Semester, 10 credits)
- Physical Education 2 (Semester, 10 credits)
- Home Economics (Semester)

Year 11
- Physical Education 1
- Physical Education 2
- Food and Hospitality (Semester, 10 credits)

Year 12
- Physical Education TAS (Semester, 20 credits)
- Food and Hospitality (Semester, 20 credits)
HEALTH AND PERSONAL DEVELOPMENT

HEALTH AND PHYSICAL EDUCATION – (COMPULSORY)

YEAR LEVEL: 8             LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: The course is aligned with the Australian Curriculum content and will cover the following areas through a range of practical and classroom activities.

Fundamental movement skills - develop the foundation for competent and confident participation in a range of physical activities.

Games and sports - development of movement skills, concepts and strategies through a variety of games and sports.

Rhythmic and expressive movement activities - movement can be composed and performed in response to stimuli.

Challenge and adventure activities - how individuals participate in a variety of physical activities designed to challenge them physiologically, behaviourally and socially in diverse contexts and environments.

Lifelong physical activities - how participation in physical activity can enhance health-related fitness and wellbeing across the lifespan.

Health benefits of physical activity - the influence and impact regular physical activity participation has on individual and community health and wellbeing.

ASSESSMENT: Practical component is graded through skills and communication checklists.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

HEALTH AND PHYSICAL EDUCATION – (COMPULSORY)

YEAR LEVEL: 9             LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: Year 8 Health and Physical Education.

CONTENT: The course is aligned with the Australian Curriculum content and will cover the following areas through a range of practical and classroom activities.

Practical concepts: Fundamental movement skills, games and sports, challenge and adventure activities, lifelong physical activities, and the health benefits of physical activity will be covered through the sports of swimming, athletics, cross country running, soccer, netball and Australian Rules football.

Health concepts: Relationships and sexuality, mental health and wellbeing, alcohol and other drugs will be covered using the Shine SA (Sexual Health) program.

ASSESSMENT: Practical component is graded through skills and communication checklists. Health component is graded by folio tasks and group work observations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.
PHYSICAL EDUCATION SPECIALIST

YEAR LEVEL: 9 
LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: Year 8 HPE.

CONTENT: Students will develop skills and knowledge in a variety of physical activities. Core units of Touch, Softball, Cricket and Fitness will be studied with electives offered in Tennis, Hockey, Soft Crosse. Theory units include Fitness Components, Human Anatomy, Issues Analysis and sport specific topics.

ASSESSMENT: Participation, attitude, skills and theory work are assessed using tests, checklists, assignments and presentations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

HOME ECONOMICS

YEAR LEVEL: 9 
LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: Year 8 HPE.

CONTENT: Food and Technology: Problem solving and practical skill development through the planning and production of a range of dishes including those for easy meals. Students will investigate the technology, past and present of equipment used for preparing food and look at labeling and microwave cookery. Textiles/Sewing: Students will learn how to use a sewing machine and then construct a denim pencil case. If time permits, students can make a cushion in colours of their choice.

ASSESSMENT: Practical and theory.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.
HUMANITIES and SOCIAL SCIENCES – For further information please contact the HASS Coordinator

Year 8
- History (3 Terms)
- Geography (1 Term)

Year 9
- History (3 Terms)
- Geography (1 Term)

Year 10
- History (Semester)
- Geography (Semester)

Year 11
- Modern History 10 credits

Year 12
- Modern History TAS 20 credits
- Geography TAS 20 credits
HUMANITIES AND SOCIAL SCIENCES

HISTORY – (COMPULSORY)

YEAR LEVEL: 8  LENGTH OF SUBJECT:  3 Terms

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: The Year 8 Curriculum provides study of history from the end on the ancient period to the beginning of the modern period, c.650AD – 1750. This was when major civilizations around the world came into contact with each other. The content provides opportunities to develop historical understanding through key concepts, including evidence, continuity and change, cause and effect, perspectives, empathy and significance.

ASSESSMENT: This consists of assignments, reports, bookwork, essays, map reading and interpretation, map-making, oral activities, knowledge tests and inquiry investigations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

HISTORY – (COMPULSORY)

YEAR LEVEL: 9  LENGTH OF SUBJECT:  3 Terms

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: The Year 9 curriculum provides a study of the history of the making of the modern world from 1750 to 1918. It was a period of industrialisation and rapid change in the ways people lived, worked and thought. It was an era of nationalism and imperialism, and the colonisation of Australia was part of the expansion of European power. The period culminated in World War I 1914-1918, the 'war to end all wars'.

ASSESSMENT: Written activities including group and individual assignments, reports, mapping skills, essays, oral activities, tests and participation in excursions.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

GEOGRAPHY – (COMPULSORY)

YEAR LEVEL: 8  LENGTH OF SUBJECT:  1 Term

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: There are two units of study in the Year 8 curriculum for Geography: Landforms and landscapes and Changing nations. Landforms and landscapes focuses on investigating geomorphology through a study of landscapes and their landforms. This unit examines the processes that shape individual landforms, the values and meanings placed on landforms and landscapes by diverse cultures, hazards associated with landscapes, and management of landscapes. Changing nations investigates the changing human geography of countries, as revealed by shifts in population distribution. The spatial distribution of population is a sensitive indicator of economic and social change, and has significant environmental, economic and social effects, both negative and positive.

ASSESSMENT: This consists of fieldwork, assignments, reports, bookwork, essays, map reading and interpretation, map-making, oral activities, knowledge tests and inquiry investigations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.
GEOGRAPHY – (COMPULSORY)

YEAR LEVEL: 9                      LENGTH OF SUBJECT: 1 Term

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: There are two units of study in the Year 9 curriculum for Geography: Biomes and food security and Geographies of interconnections. Biomes and food security focuses on investigating the role of the biotic environment and its role in food and fibre production. Geographies of interconnections focuses on investigating how people, through their choices and actions, are connected to places throughout the world in a wide variety of ways, and how these connections help to make and change places and their environments.

ASSESSMENT: This consists of fieldwork, assignments, reports, bookwork, essays, map reading and interpretation, map-making, oral activities, knowledge tests and inquiry investigations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.
Year 8: Spanish
Year 9: Spanish
Year 10: Spanish A
Year 11: Spanish B
Year 12: Stage 1 Spanish (20 Credits)
LANGUAGE

LANGUAGE - SPANISH

YEAR LEVEL: 8  LENGTH OF SUBJECT: Semester

PREREQUISITE: No pre-requisites.

CONTENT: In this course students will learn about the basics of Spanish grammar, including regular verb conjugation and sentence structure; and basic conversational Spanish, including colours, numbers, family and clothes.

ASSESSMENT: Students will be assessed on a range of written and spoken assignments.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Students will need frequent access to the internet. Internet credit will be assumed.

LANGUAGE - SPANISH

YEAR LEVEL: 9  LENGTH OF SUBJECT: Semester

PREREQUISITE: Year 8 Spanish.

CONTENT: This subject aims to continue the experiences of the Year 8 Spanish. Students will expand their knowledge of grammar to include irregular verb conjugation, and the continuous and future tenses. Students will learn how to converse about school and home life and their free time activities including likes and dislikes. Students will also begin to engage with our sister school students in Spain and explore aspects of Spanish culture including cuisine and movies.

ASSESSMENT: Students will be assessed on a range of written and spoken assignments, including creating and engaging with bilingual texts both oral and written.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Students will need frequent access to the internet. Internet credit will be assumed.
MATHEMATICS – For further information please contact the Maths Coordinator

Year 8
Mathematics (Full Year)

Year 9
Mathematics

Year 10
Mathematics

Mathematics A
10 credits

Mathematics B
10 credits

Mathematics C
10 credits

General Mathematics A
10 credits

General Mathematics B
10 credits

Essential Mathematics A
10 credits

Essential Mathematics B
10 credits

Year 11
Mathematics A
10 credits

Mathematics B
10 credits

Mathematics C
10 credits

General Mathematics A
10 credits

General Mathematics B
10 credits

Essential Mathematics A
10 credits

Essential Mathematics B
10 credits

Year 12
Mathematical Methods
20 credits

Specialist Mathematics
20 credits

Essential Mathematics
20 credits
MATHEMATICS

MATHEMATICS – (COMPULSORY)

YEAR LEVEL: 8  LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This course is designed to continue the student’s development of Mathematics and Numeracy. It exposes students to more open-ended problems, developing high order problem solving skills and abstract thinking required for senior Mathematics. This will be done through the topics: ‘Functions and Graphs’, ‘Measurement and Geometry’, Number and Algebra’ and ‘Statistics and Probability’.

ASSESSMENT:

SPECIAL REQUIREMENTS/COSTS OF COURSE: Scientific Calculator $25 (compulsory), Geoliner $0.90, compass $1.10, ruler $1.00.

MATHEMATICS

YEAR LEVEL: 9  LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: High success in Year 8 Mathematics.

CONTENT: This course is designed to prepare students for high level senior mathematics (Mathematical Studies and Specialist Mathematics). It exposes students to more open-ended problems, developing high order problem solving skills and abstract thinking required for senior Mathematics. This will be done through the topics: ‘Functions and Graphs’, ‘Measurement and Geometry’, Number and Algebra’ and ‘Statistics and Probability’.

ASSESSMENT: Skills and Application Tasks (SATs) and Folio.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Graphics Calculator $200 (compulsory), Geoliner $0.90, compass $1.10 and ruler.
SCIENCE – For further information please contact the Science Coordinator

Year 8
- General Science (Full Year)

Year 9
- General Science (Full Year)

Year 10
- General Science (Full Year)

Year 11
- Physics A
  - Semester 1: 10 credits
  - B
  - Semester 2: 10 credits

  - Biology 1
    - Semester 1: 10 credits

  - Biology 2
    - Semester 2: 10 credits

  - Chemistry A
    - Semester 1: 10 credits

  - Chemistry B
    - Semester 2: 10 credits

Year 12
- Physics
  - TAS: 20 credits

- Biology
  - TAS: 20 credits

- Chemistry
  - TAS: 20 credits

- Agriculture
  - TAS: 20 credits

Agricultural Studies 1
- Viticulture and Wine Production: 10 credits

Agricultural Studies 2
- Animals: 10 credits
SCIENCE

SCIENCE – (COMPULSORY)

YEAR LEVEL: 8  LENGTH OF SUBJECT: Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This course is designed to introduce students to all four sciences: Biology, Chemistry, Earth Science and Physics. It exposes students to an inquiry based approach, developing high order problem solving skills and abstract scientific thinking. They will learn how to use fine motor skills, observation, measuring devices while doing experiments and predict the outcomes of these experiments. This will be done through the topics: ‘Cells and Multicellular Organisms’ (Biological Science), ‘Change Matters’ (Chemical Science), ‘Energy Changes’ (Physical Science) and ‘Rock Star’ (Earth and Space Science).

ASSESSMENT: Skills and Application Tasks (SATs), Folio.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions: Fossicking - $30; Mining Camp - $100 (Burra/Moonta).

SCIENCE – (COMPULSORY)

YEAR LEVEL: 9  LENGTH OF SUBJECT: Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This course is designed to introduce students to all four sciences: Biology, Chemistry, Earth Science and Physics. It exposes students to an inquiry based approach, developing high order problem solving skills and abstract scientific thinking. They will learn how to use fine motor skills, observation, measuring devices while doing experiments and predict the outcomes of these experiments. This will be done through the topics: ‘Systems’ (Biological Science), ‘Chemical Reactions’ (Chemical Science), ‘Energy Transfer’ (Physical Science) and ‘Plate Tectonics and Earth History’ (Earth and Space Science).

Students will also use the scientific method to complete an in-depth investigation of their own choosing to be entered into the state PICSE Science competition.

ASSESSMENT: Skills and Application Tasks (SATs), Folio.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions / camps: Flinders Ranges Camp - $170.

AGRICULTURE 1

YEAR LEVEL: 9  LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This unit is centered on the following areas: Vegetable growing, Soils, Dairy Industry and Pastures.

ASSESSMENT: Skills and Assessment tasks (Tests), and Folio (Research and Practical Investigation).

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions.
AGRICULTURE 2

YEAR LEVEL: 9  
LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This unit is centered on studies in the following areas: Poultry Management, Animal Digestion, Vegetable Growing and cropping.

ASSESSMENT: Skills and Assessment tasks (Tests), and Folio (Research and Practical Investigation).

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions.
TECHNOLOGY – For further information please contact the Technology Coordinator

Year 8
- General Technology (Full Year)
  - Woodwork (Semester)
  - Metalwork (Semester)
  - Digital Technologies/Robotics (Semester)
  - Electronics (Semester)

Year 9
- Woodwork (Semester)
- Metalwork (Semester)
- Digital Technologies (Semester)
- Electronics (Semester)
- F1 In Schools STEM (Semester)

Year 10
- Woodwork (Semester)
- Metalwork (Semester)
- Digital Technologies (Semester)
- Electronics (Semester)
- Concrete and Masonry 10 credits

Year 11
- Woodwork Contemporary 10 credits
- Woodwork Traditional 10 credits
- Metalwork A 10 credits
- Cert III in IT - Programming - General IT
- ASBA → Cert IV

Year 12
- Woodwork (Materials) TAS Semester 10 credits
- Metalwork (Materials) TAS Semester 10 credits
- Electronics (Systems and Control) TAS Semester 10 credits

The pre-requisites for the Year 12 subjects are many and varied; too complex to show as arrows. Please read each subject very carefully to find out its pre-requisites.
TECHNOLOGY

TECHNOLOGY – (COMPULSORY)

YEAR LEVEL: 8                  LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: Emphasis is placed on gaining skills and confidence in design and digital technology areas. Students achieve practical solutions to various design problems. The following four areas will be studied:

Digital Technologies: Students will immerse themselves into various ‘Digital Technologies’ throughout the course. These will include: Computer Aided Design (C.A.D.) using Autodesk Inventor, 3D Printing and Programming/Coding to produce a basic web page using HTML language (Line Coding) and Gaming using scratch (Block Coding).

Metalwork: Using sheet-metals, marking, cutting, folding, bending, soldering, and spot welding.

Woodwork: Using timber, marking, cutting, planing, gluing, using a bandsaw, drill press and disc sander.

Electronics: Using basic electronic components and equipment to make a basic circuit using circuit wizard

Other: Students will be introduced to CAD (Computer Aided Design) and 3D printing in specific technology subjects. Students will also use the design process to design and create various projects.

ASSESSMENT: Students are assessed in the following areas: Practical skills, Book work and homework, Achievement in tests, Behaviour and Attitude.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

METALWORK

YEAR LEVEL: 9                  LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

N.B.: This course is compulsory if the student intends to study any future metalwork.

CONTENT: Students complete practical activities designed to develop basic skills in oxy-acetylene welding, fitting and machining, metal fabrication. Emphasis is also given to safe working habits and developing problem solving and design skills. Theory assignments are used to reinforce practical tasks and develop communication and graphics skills. A CAD and 3D printing component will be added into the course, to strengthen design ideas and processes.

ASSESSMENT: Practical work assessment, written work assessment and testing are amongst the range of assessment strategies used.

SPECIAL REQUIREMENTS/COSTS OF COURSE: If a student uses more than their allocated amount of materials then they will incur a charge for any extra materials that they use. This course enables the students to study Metalwork at Years 10, 11 and 12.
ELECTRONICS

YEAR LEVEL: 9   LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: Students will develop and build projects which will develop skills in the use of electronic test equipment, circuit interpretation, circuit board production and population, soldering, component identification, faultfinding and use circuit wizard to create electronic circuit diagrams. Picaxe programing is used to set circuit outputs. Written assignments will be used to further their understanding in the practical tasks.

ASSESSMENT: Students will be assessed in projects, practical tasks, written, design work and tests.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

WOODWORK

YEAR LEVEL: 9   LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

NB: This course is highly recommended if the student intends to study future woodwork.

CONTENT: Students will use the design process to engineer and produce various practical projects made from wood. Students will be introduced into STEM (Science, Technology, Engineering and Math) through the CO² Dragster Challenge. Students will use mathematic and physic principals in their design process as well as producing CAD drawings to demonstrate their design ideas in a folio format. Students will produce their CO² Dragster and compete against their class members. Emphasis is placed on developing safe work habits when using a wide range of tools and machinery. Note: Students wishing to enrol into the ‘F1 in Schools’ course in Yr. 10, must successfully complete this course.

ASSESSMENT: Students will complete a set range of projects, practical tasks and written work. They will be assessed on the quality and completion of the set tasks.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

DIGITAL TECHNOLOGIES/ROBOTICS

YEAR LEVEL: 9   LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: Students will enhance and build upon their knowledge from Yr. 8 Digital Technologies in the form of Robotics and Programing/Coding. Students will use block coding through the Lego Mindstorm Program to perform various tasks with Lego EV3 Robots. Students will build more complex games using scratch and create Web Pages using Dreamweaver. An introduction to Automated Drone technology will further enhance the students programing capabilities.

Note: This course is designed around self-paced learning and the use algorithms and computational thinking to complete tasks.

This course is compulsory if students intend to study Digital Technologies in Year 10.

ASSESSMENT: Practical tasks and a folio of work examples.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.