



Senior Pathways

**A guide to VCE, VCAL & VET
subjects and course information
at
Rutherglen High School**

2019

Rutherglen High School

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Choosing and following a Pathway

Students going into the Senior School years at Rutherglen High School have a wide variety of programs and pathways open to them. They are able to pursue units and programs from within the Victorian Certificate of Education (V.C.E.) and/or Victorian Certificate of Applied Learning (V.C.A.L.). They can also enrol in Vocational Education & Training in Schools (VETiS) courses and School Based Apprenticeships & Traineeships (S.B.A.T.s). Indeed many students participate in a program with several of these different elements and courses.

Students should find out more about the world of work and life beyond school before making decisions. In part this includes the Industry and Enterprise subject in Year 10 as well as Work Experience and Work Placements and even part-time work. It includes completing a Managed Individual Pathways (MIPs) Plan as well as individual counselling. However it also includes the student showing initiative to undertake individual research and asking questions of people in related occupations.

The most important thing is for students to select a program and individual subjects or courses which will assist them in moving along the pathway that takes them towards their dream career. If they don't have a clear or specific dream, then they should ensure they keep their options open. By law, students are required to be in education or training until they are 17 years old. However there is compelling evidence that there are long term major advantages in completing secondary school and also in completing tertiary education at TAFE or university.

Students should select subjects which are of interest and value to them. They are more inclined to work hard and achieve more in a subject they like. Selecting a subject or program because their friends are doing it is not a wise choice.

In the end, students will get out of their Senior School years what they put in. These years can be stressful and difficult. Anytime you are striving to achieve excellence, it is necessary to push yourself and work hard. However you should also ensure that you achieve a sense of balance between the different aspects of your life. It is still possible to be involved in part-time work, sport and have a social life. However, your dream will not just drop in your lap - you need to go out and make it happen. Make that your approach: dream, research, investigate, select, strive and achieve.

Good luck.



Phil Rogers
Principal

VCE

VCE PROGRAM

This handbook describes the initial unit offerings. From it, students can complete their Initial Program Selections. These selections will then provide the basis for the final unit offerings.

NOTE:

1. If there are insufficient student numbers selection for a particular unit, students will be asked to select an alternative unit.
2. If a unit combination is not possible due to timetabling restrictions, students will be asked to select an alternative unit.
3. Year 11 students are able to revise their programs at mid-year and end-of-year. (Not all student requests for changes are possible though).
4. Students will be counselled before their program is finalised.
5. Whether a unit runs will ultimately depend on the availability of staff and resources. The Principal in consultation with the LAC Committee will make the final decisions on which Units will run.

CHOOSING A PROGRAM

Remember:

1. Choose a program which is realistic to your academic background.
2. Choose a program which is consistent with your future career. Students must make themselves aware of any pre-requisite for a particular career or course. This can be done by contacting the careers teacher
3. Seek guidance from your present teachers on the suitability of your selection of units.
4. Try to broaden your program beyond those subjects strictly required for any particular vocations.

People who can help you in making decision about your program are:

CO-ORDINATORS:	Any queries on program units or general information.
CAREERS TEACHER:	Any questions re careers and pre-requisites for courses.
YEAR 10/11 TEACHERS:	These people probably best know your capabilities, and should be consulted.
PARENTS:	Know your goals, strengths and weaknesses and will do their best to be supportive and helpful.

THE STUDENT PROGRAM

In order to successfully complete the VCE requirements, students enrolled in VCE must satisfactorily complete at least 16 units.

These units must include:

- Three (3) Units of English with at least one Unit at Unit 3 or 4 level.
- Three (3) sequences of level 3 and 4 Units other than English, these sequences can include VCE VET Unit 3 and 4 sequences.
- The 16 units may include an unlimited number of VET units.

To obtain an ATAR score a student must pass Unit 3 & 4 English as well as three other Unit 3 and 4 sequences.

AT RUTHERGLEN HIGH SCHOOL

YEAR 11

In general, Year 11 students would be advised to select from VCE Units 1 and 2. However, some students may wish to attempt some VCE 3 & 4 Units. Such selections will need to be made after careful discussion with the appropriate teacher and a Senior School Coordinator. Year 11 students wishing to study a Unit 3/4 subject will need to fill out and submit an 'Accelerated Subject' form. Students will only be permitted to do a 3/4 sequence if they have performed well in Year 10. The results from the 3 & 4 Unit will be added to the following year's results and so contribute to the student's ATAR score. Year 11 students are expected to study 12 VCE/VET/VCAL Units (6 subjects) throughout the year.

YEAR 12

It is anticipated that the "normal" program in Year 12 will be at least 10 Units. This may include VET subjects and/or some VCE 1 and 2 units, or it could also include 'Enrichment Units' which are offered by some universities.

VCE UNITS OFFERED AT RUTHERGLEN HIGH SCHOOL 2019

UNITS 1 & 2

UNITS 3 & 4

English

English

Arts/Humanity Grouping Art

Geography
 Health and Human Development
 History - 20th Century Legal
 Studies Literature
 Music Performance
 Physical Education
 Sociology
 Visual Communication and Design

Art
 Geography
 Health and Human Development
 Global Politics
 Legal Studies
 Literature
 Music Performance
 Physical Education
 Sociology
 Visual Communication and Design

Maths/Science/Technology Grouping

Agricultural Studies Biology
 Product Design and Technology
 Food & Technology Psychology

Agricultural Studies
 Biology
 Product Design and Technology
 Food & Technology Psychology

Accounting Accounting
Chemistry	
Introduction to Further Maths Further Mathematics
Mathematical Methods CASMathematical Methods CAS
Introduction to Specialist MathsSpecialist Mathematics
Physics.....	

NOTE:represents: Studies for which subjects it is recommended that you do Units 1 and/or 2 before attempting Units 3 and 4.

VET

VOCATIONAL EDUCATION AND TRAINING

VET programs are vocational studies approved by the Victorian Curriculum and Assessment Authority (VCAA) as appropriate for senior secondary school students. This allows a student to complete a nationally recognised Vocational Education and Training (V.E.T) qualification as well as gain credit for VCE/VCAL during Year 10, 11 and 12.

Students study VET subjects to broaden their subject choice and gain another type of qualification.

Some VET modules are recognised as equivalent to VCE units 1 & 2 and 3 & 4. As long as you satisfactorily complete the whole program, these modules will form part of your VCE. They also contribute to VCAL.

Some VET courses have graded assessment tasks and students must sit an end of year exam. This gives the student a study score and contributes to their ATAR. Rutherglen HS offers three VET subjects that add to their VCE results.

VCE VET Studies in Engineering [contributes to ATAR if studied at Year 12 level]

VCE VET Hospitality [contributes to ATAR if studied at Year 12 level]

VET Business Studies [Cert II, contributes to VCE Units 1 & 2 and also VCAL]

These subjects are taught at School and require some training time at either Wodonga TAFE or GOTAFE in Wangaratta.

Most VET courses require you to complete work placement within the relevant industry.

Students may also do external VET subjects through a TAFE. This may require the student to attend TAFE one day per week or complete the course 'On-line'. Examples of these include.

Cert II in Animal Studies

Cert III in Beauty Services

Cert II in Equine Industries

For a more comprehensive list of VET subjects see Mr. Thomas or Mr. Webb.

VCAL

(Victorian Certificate of Applied Learning)

OVERVIEW: The Victorian Certificate of Applied Learning (VCAL) is a senior school certificate that is based on hands on learning. VCAL aims to develop skills that will assist in preparing students for further education, training or employment. It allows students to complete their secondary education and gain hands-on skills, which will help them move into meaningful employment.

VCAL has three levels - Foundation, Intermediate and Senior. Senior is the highest level and is aimed at students who demonstrate high personal motivation and an ability to work independently. Students would start at the level that best suits their skills and capabilities and allows them to proceed through the levels as they gain competency and skills. These levels are not timed based, and as soon as students complete the competency based outcomes they are free to try for the next level.

VCAL has been specifically designed to meet the needs of students in Year 11 and Year 12 who need a course based themed on practical experience.

CAREERS: Since starting VCAL at RHS in 2003 students have gained employment in many Industries including Automotive, Building, Engineering, Hospitality, Hair and Beauty, Nursing, Animal care industry, Warehousing and Logistics, The Aged care industry and many more.

What types of subjects make up the VCAL?

Strand 1 - Literacy and Numeracy

The VCAL learning program must include a form of Literacy and Numeracy. This may involve, for example, VCE English and Maths or actual VCAL Literacy and Numeracy units provided by the Victorian Qualifications Authority.

Strand 2 - Industry specific skills

The VCAL learning program must include units of vocational training based on V.E.T. programs or a School Based Apprenticeship Traineeship (SBAT). eg. VET Business, VET Engineering, VET Hospitality etc.

Strand 3 - Work related skills

The VCAL learning program may include part-time work, new apprenticeships, work experience and work placement units in preparing for work such as Occupational Health and Safety or job interview skills. Students will be required to complete 10 days of structured work placement each semester, in a field of their choice.

Strand 4 - Personal development skills

The VCAL learning program will include local and community based projects, voluntary work and structured activities to help develop self-confidence, personal organisation skills, teamwork and other skills important for life and work.

VCAL ASSESSMENT: Assessment is undertaken as an ongoing process which integrates the student's knowledge and skills with their practical application over a period of time. Evidence is collected through teacher observations, the written records of students work and through the collection of pictures, diagrams, models and projects completed by students.

To successfully complete a VCAL certificate at any level students must achieve 10 credits. These are achieved by successfully completing the 2 units of learning outcomes in each of the 3 levels.

VCAL will give students the opportunity to approach their senior years of secondary education **knowing** that they are working towards a planned desired outcome whilst still at school.

The above strands are pre-requisites in Foundation Intermediate and Senior level VCAL. Subject choices should be made in consultation between student, parents, careers teacher and Senior School Co-ordinators.

An example of a VCAL Course may include:

- VCAL Numeracy **OR** any VCE Maths units (compulsory)
- VCAL Literacy **OR** students could choose to do VCE English Units (compulsory)
- VCAL personal development skills (compulsory)
- VCAL work related skills, (compulsory) **OR** VET Business Studies
- Design and Technology
- Work placement selected by the student.
- A VET course **OR** a School Based Apprenticeship Traineeship (SBAT).

This type of course selection allows students some flexibility in their subject choices; however, the acquiring of a work placement is extremely important.

To gain VCAL, students **MUST** pass all of the learning outcomes within each subject area. VCAL demands that students demonstrate self management and personal motivation.

If you would like to complete your secondary education and gain valuable work skills, consider gaining VCAL.

Careers Information
www.rutherglenhighcareers.com

This section is meant to guide you to the correct source of information rather than supply the information. It is important to remember that prerequisites for post school courses and careers are changing from year to year, so it is vital that you seek out the most recent information.

The correct VCE/VCAL course selection can only result if you have already selected a career direction. Once the career direction has been decided, you should work out which pathway will lead you there (VCE, VCAL, VET, SBAT, external study and/or Work Placements).

When choosing VCE subjects, you may need to ask yourself the following:

- o Do you have some ability in the type of Units you wish to do?
- o Do you enjoy the content of the Units?
- o Are you interested in the industries that completing the Units may lead to?
- o How do the Units relate to your career intention?
- o Are there prerequisite units required for your intended post school pathway? (e.g. Defence Force, Teaching courses)

It is important that you maintain a variety of subjects as:

- o Your own career aims may change over the next couple of years,
- o Prerequisites and demands of tertiary institutions and their courses may change,
- o You may not be able to enter the particular field or course of your choice due to unforeseen circumstances, thus it is essential to have thought of some alternatives.

Visit www.rutherglenhighcareers.com for quick and easy reference materials relating to post school options. This includes job/career information searches, career interests, industries, resumes, tertiary institution information and more. If you log into the student area using an email address you will have access to even more resources. A weekly *Career Newsletter* is also published by the Careers Adviser.

A range of information relating to careers and tertiary institutions is also available in the Careers Room and in the Senior Study Centre. For individual careers counselling and /or advice, make an appointment with the Careers Adviser.

Structured Workplace Learning (SWL) and Work Experience

There are a number of opportunities to participate in either SWL or Work Experience depending on your chosen subjects. Please speak to your Careers Adviser for further information if you would like to do Work Experience outside of a given subject. They can help you to source and organise.

VCE SPORT

VCE students are encouraged to maintain their health and fitness by continuing to be involved in the School's Sports program.

They have the opportunity to participate in interschool sport and are expected to participate in the Interhouse competitions.

VCE students also have the use of the community centre at lunchtime throughout the week.

VCE HOMEWORK EXPECTATIONS

Homework - this is work to be completed outside of formal class time. It may include the completion of unfinished class work, revision for tests and exams, or the completion of specific projects or tasks.

All Year 11 and 12 students are expected to do homework on a regular basis.

They should establish a regular pattern of homework and ensure they use their Diary (Electronic or Hard copy).

Students should also use their school email account for communication with Teachers.

Students should work steadily over the set period of time. They should start on the night the work is set.

Students should list all Work Requirements and their due dates, and then plan their work to meet the due date.

The amount of time necessary for each student will vary. Subjects outline minimum requirements in the course description. On average students can be expected to complete up to 3 hours a day. VCE students should also spend time revising work in preparation for exams.

If you consider a student is doing excessive amount of homework, please contact the year level co-ordinator.

HONOURS POLICY

Honours are not awarded to students studying VCE Units 3 and 4, VET Units or VCAL Units. However, Honours can be awarded to students studying VCE Units 1 and 2.

STUDENTS WHO DRIVE THEMSELVES TO SCHOOL

Any student, who intends to drive themselves to school at some stage, must obtain a 'Car Usage' form from the Senior School Coordinator. This form outlines the School's policy on student car use and must be signed by both the student and a parent/guardian. In short this form states that any student who drives to school can bring to school or take from school any siblings who attend the school but ¹0 other students.

STUDENT EXPECTATIONS AND RESPONSIBILITIES

Senior students are treated as young adults at this school. They are given a number of privileges. With these privileges come a number of responsibilities and expectations.

The school expects the senior students to play a leadership role in the school, to set a good example to younger students and to act in a responsible, adult manner.

Some of the expectations of senior students include:

Q Use the Senior Study Centre responsibly

- Maintain respective locker areas in a tidy manner Q Actively participate in all timetabled classes
- Use the private study periods in an effective manner
- Complete at least 2 hours of home study per week per subject
- Respect the rights of other students to learn
- Make the most of their educational opportunity
- Abide by normal school rules with regard to uniform, attendance (at least 80%), punctuality, motor car usage, lunch passes and leaving the school grounds during the school day.

We trust the senior students will grow and develop into fine young men and women and display levels of maturity and a social conscience expected of 16,17 and 18 year old students.

SCHOOL ASSESSED COURSEWORK (SAC)

WHAT ARE SACS?

SACs must be part of the regular teaching and learning program of all VCE subjects. They must be completed mainly in class. SACs comprises of a variety of tasks that range from projects to essays to tests to completing an experiment. Results of SACs at a Year 12 level count towards a students study score in each subject and ultimately towards their ATAR score. SACs at a Year 11 level are the assessment components of each subject and may count towards a student satisfying the Outcomes of a particular subject.

WHAT HAPPENS IF A STUDENT IS ABSENT FROM CLASS WHEN A SAC IS BEING HELD

It is inevitable that at some stage throughout any particular year a student will be absent from school when a SAC is being held. Especially when it is taken into account that some SACs are held in each lesson over a two-week period in some subjects.

If a VCE student misses a SAC for a school related reason (e.g. Sport, Debating, Excursion etc) the student must be given the chance to complete the SAC or a similar SAC at a mutually agreeable time to the student and the subject teacher.

If a student misses a SAC through illness and can produce a Doctors Certificate, they must be given the chance to complete the SAC or a similar SAC at a mutually agreeable time to the student and the subject teacher.

If a student misses a SAC through illness but doesn't go to a doctor, they must make sure that a parent (or guardian) contacts the School (preferably the Senior School Coordinator) early in the school day (before the SAC is being held). If this happens the student will be given the chance to complete the SAC or a similar SAC at a mutually agreeable time to the student and the subject teacher.

If a student misses a SAC through exceptional pressing family circumstances that are accepted by the Principal, they will be given the chance to complete the SAC or a similar SAC at a mutually agreeable time to the student and the subject teacher. Hopefully, if some such circumstances do occur, the family will make every effort to contact the school prior to the SAC.

However, if a student misses a SAC and there has been no parental contact with the school to give a reason for the absence beforehand, the student will not be given the chance to catch up on the time missed. The student will be given zero marks for the work missed and in some cases may have to complete extra work to satisfy those parts of a subject's outcomes that the SAC was covering.

Consequently, if a student is in a situation where they are going to be absent from a SAC on a particular day, they must ensure that a parent (or guardian) contacts the school before the time of the SAC to give a reason for the absence.

Please feel free to contact the Senior School Co coordinator should you wish to further discuss this policy.

RUTHERGLEN HIGH SCHOOL ATTENDANCE POLICY

Rationale

Rutherglen High School encourages students to achieve to the best of their abilities. Therefore it is expected that all students take full advantage of their educational opportunities, including regular attendance, completion of all set work and consistently working to their full potential.

Students of school age (5 -17 years) resident in Victoria are required to be in full time attendance at a government or registered non-government school unless they are receiving approved home tuition, have shared enrolment with a specialist setting, have received an exemption from the Regional Director or are enrolled in correspondence education.

Aims

- To maximise learning opportunities by ensuring student absenteeism is kept to a minimum.
- To put into place agreed processes for managing student absences within the school.

Implementation

- All enrolled students are expected to attend all scheduled classes.
- Students must have a valid reason for not attending (these are outlined under Approved Absences)
- The official attendance roll is marked every lesson of each day. Class teachers mark their own rolls for each class.
- Students absent from Period 1 will be recorded by the School Attendance Officer who will contact the parents of absent student to verify the location of the student.
- Attendance data will be reviewed by Year Level Coordinators.
- Parents/Guardians of absent students are required to provide authorisation either in writing or by phone, detailing the reason/s or their child's absence.
- Parents/students are expected to advise the school of any extended absence, prior to the absence.
- Students in Years 7-10 who have more than 10 days unapproved absence per semester may be unable to satisfy the requirements of the subjects unless the Year Level Coordinator makes a special recommendation to the Principal.
 - o Absences with a Medical Certificate, part-day absence approved by First Aid Officer, suspensions, excursions including sport and work placements are approved rather than unapproved absences.
- Students in Years 11 - 12 are required to maintain a 100% attendance rate for each unit of study they undertake. Failure to do this will result in the recording of an N for that Unit unless there is a valid (approved) reason for non-attendance.
 - o Absences with a Medical Certificate, part-day absence approved by First Aid Officer, suspensions, excursions including sport and work placements are approved rather than unapproved absences, o A parent or guardian of a VCE student who is absent or will be absent for School Assessed Coursework (SAC) must notify the Senior School Coordinator prior to the scheduled SAC. o VCAL students are required to complete 100 hours per outcome over the year. The same obligations apply to them as per VCE students.
 - o **Once attendance drops below 80% for a semester, VCE/VCAL students will be unable to satisfy the requirements of the subjects/courses even if the absences are generally approved. They will therefore receive an 'N'.**
- Students who are recorded absent at morning or afternoon roll call will have a half day unapproved absence recorded, unless otherwise advised, which will count towards the yearly tally of unapproved absences.

Approved Absences include:

- Absences covered by a medical certificate
- A student being sent home sick from school
- Attendance at a medical appointment, including dentist
- Approved School excursion or sporting event.
- Suspension
- Notification by phone or a signed note by the parent/guardian explaining the reason for the absence (illness, family trauma, etc.) (While this is generally sufficient for students in Years 7-10, it is only sufficient grounds for VCE/VCAL students with low level absenteeism.)
- Family holidays (the School Attendance Officer should be informed well in advance so that work requirement obligations are met through a form completed and signed by teachers.) (While this is generally sufficient for students in Years 7-10, it is only sufficient grounds for VCE/VCAL students with low level absenteeism.)

Attendance Protocols:

- Rutherglen High School has a 24-hour phone number with an answering machine. The number is (02) 60329818.
- When parents know their son or daughter will be absent from school, they should ring and:
 1. Identify themselves as the parent/guardian of the student
 2. Advise the name and form of the student
 3. Advise the reason for the absence and the expected length of the absence. (A follow-up note may be required.)
- Students who leave the school for an approved appointment or activity must sign out and, if they return, sign back in.
- VCE Students must sign the private study roll at the commencement of each private study period.
- Teachers are to maintain accurate attendance records for each period of instruction.
- Teachers are to monitor attendance and advise Year Level Coordinators of concerns.
- Students are responsible for any missed work and must seek information concerning catch-up requirements.

SPECIAL PROVISION

Please consult a Senior Level Co-ordinator with any questions you may have concerning the information on Special Provision provided in this section.

The purpose of Special Provision in student programs is to help students in defined circumstances to complete the VCE in a reasonable time frame. A student is eligible for Special Provision in Student Programs if, at any time, while studying for VCE, he/she is adversely affected in a significant way by:

- Illness (physical or psychological);
- Any factors relating to personal environment;
- Other serious cause;
- An impairment or disability, including learning disabilities.

The school is responsible for determining eligibility and the nature of the provisions provided.

Individual students may need special provisions in their learning program to achieve outcomes, and in assessment to demonstrate their learning achievement. Special provision provides eligible students with the reasonable opportunity to participate in and complete their senior secondary studies.

The provisions are available to both VCE and VCAL students.

Students who are eligible for Special Provision are not exempt from meeting the requirements for satisfactory completion of the VCE, or from being assessed against the outcomes of a study. Neither does Special Provision include the development of alternative courses of study nor standards of achievement that are different from those specified in VCE study designs.

FORMS OF SPECIAL PROVISION

- Student program alterations
- Special Examination Arrangements
- Derived Examination Score

SPECIAL EXAMINATION ARRANGEMENTS

The VCAA recognises that students with a disability/illness may require Special Examination arrangements to enable them to access the examination questions and communicate their response in a timed examination.

All Special Examination Arrangements for a student must be approved by the VCAA upon application from the school.

Students are eligible for Special Examination Arrangements if it can be demonstrated that their capacity to complete the examination is adversely affected by:

- Significant Health Impairment
- Significant Physical Disability
- Hearing Impairment
- Vision Impairment
- Learning Disability
- Severe Language Disorder

Special Examination Arrangements may take the form of:

- Extra reading time
- Extra writing time
- Rest breaks
- Alternative format examination papers
- Permission to use special technological aids
- A reader and/or a scribe
- A clarifier
- Alternative examination venue

DERIVED EXAMINATION SCORE

The Derived Examination Score (DES) is calculated by the VCAA and may be used as the student's examination result where the student has met the eligibility requirements for the provision.

The purpose of a DES is to ensure that a student's final result on an examination reflects as accurately as possible the level of achievement that would be expected based on the learning and achievement he/she has demonstrated in his/her study over the year/semester.

Students are only eligible for a DES for a VCE examination if:

1. They have completed the course of study leading to the examination and have a result for at least on other Graded Assessment in the same study.
2. They experience the onset of an illness or the occurrence of an injury or personal trauma within two weeks before the actual exam.
3. They experience a serious intervening event in the period two days before or on the day of an examination.
4. They provide written evidence that demonstrates that the illness, injury, personal trauma or serious intervening event has affected their performance in the examination or has prevented them from attending the examination.

A student applying for a DES must do so within seven days of their last exam in the particular examination period.

UNITS 1 & 2

ACCOUNTING UNITS 1 & 2

OVERVIEW: In this subject students are introduced to establishing a business and the financial management of a business. The student will be able to explain and apply the knowledge and skills necessary to set up a business, record and report data for a business and make sound financial decisions. The study of Accounting will enable students to develop their financial knowledge and skills.

CAREERS/PATHWAYS: This subject is recommended for those who may wish to operate their own business in the future or who have a desire to enter a TAFE or university course which has a business focus such as Accounting, Law, Finance, Economics, Management or Commerce. **NATURE OF WORK AND**

ASSESSMENT: The class work comprises completing set exercises, assignments and topic test that demonstrate the student's knowledge and understanding of the rules and concepts of accounting.

THE **VC A A handbook** sets out the following compulsory areas of study.

AREA OF STUDY 1 - Unit 1 - The role of accounting

Outcome 1: Describe the resources required to establish and operate a business, and select and use accounting reports and other information to discuss the success or otherwise of the business.

AREA OF STUDY 2 - Unit 1 - Recording financial data and reporting accounting information for a service business.

Outcome 2: Identify and record financial data, report and explain accounting information for a service business, and suggest and apply appropriate financial and non - financial indicators to measure business performance.

AREA OF STUDY 1- Unit 2 - Accounting for inventory

Outcome 1: Record and report for inventory and discuss the effect of relevant financial and non-financial factors, and ethical considerations, on the outcome of business decisions.

AREA OF STUDY 2 - Unit 2 - Accounting for and managing accounts receivable and accounts payable.

Outcome 2: Record and report for accounts receivable and accounts payable, and analyse and discuss the effect of relevant decisions on the performance of the business including the influence of ethical considerations.

AREA OF STUDY 3 - Unit 2 - Accounting for and managing non-current assets.

Outcome 3: Record and report for non-current assets and depreciation.

OTHER COURSE REQUIREMENTS:

Students will be required to purchase a textbook. It is strongly advised that students have access to a computer if studying Unit 2.

HOMEWORK:

Students will be required to revise and complete any unfinished class work out of class.

AGRICULTURE AND HORTICULTURE UNITS 1&2

OVERVIEW: This subject provides opportunities for students to experience and understand the Agriculture and Horticulture industries. Students complete a variety of practical and theoretical aspects as well as developing skills of running a small enterprise. The subject covers a broad range of systems in terms of biological, social

and economic development of Agriculture and Horticulture in Australia. At the completion of these Units, students will gain a more thorough understanding of the operation of enterprises/small businesses, the principles of sustainable Agriculture and the importance of Agricultural/Horticulture in a changing world.

CAREER PATHWAY: Agricultural scientists, Farm Manager, Agronomist, Manager in Land Care, Irrigation Services, Wine Maker, Vineyard Manager, Food Technologist, Water Policy Adviser, Business Manager, Horticulturalist, Stock and Station Agent.

NATURE OF WORK/ASSESSMENT: Throughout the unit students will be required to complete a small Agricultural and Horticultural enterprise (i.e. Steers, Lambs). Students will complete practical fieldwork at Farms and Enterprises. Students will complete a number of discussions, complete work from textbooks, presentations, tests and written responses. The subject combines practical and theoretical aspects of Agriculture and Horticulture.

Note: Opportunities to attend the Royal Melbourne Show are available as part of this study.

UNIT 1-Agricultural and Horticultural Systems

Area of study 1 - Influences on Agricultural and Horticultural Systems

Students examine a range of issues which influence Australian Agricultural and Horticultural Systems. This includes varieties of beef cattle, Carcase analysis, plant production/cropping. Students also visit a local Farming enterprise and complete fieldwork.

Area of study 2 - Agricultural and Horticultural Systems

Students work on an Enterprise of their own choice. Students complete planning, marketing and risk assessment on their chosen enterprise. This is a practical enterprise and if working with animals, an Animal Welfare Assessment must be completed.

UNIT 2 - Production

Area of study 1 - Biological and Environmental Factors

This area of study examines reproduction, nutrition and genetics and plants. Students consider the influence of biological factors such as disease causing organisms and pests which increase or decrease production, along with the impacts of climate extremes such as frost or wind chill.

Area of study 2 - Production Systems and Processes

In this area of study students explore the role of agricultural and horticultural businesses in adding value to primary products. The student's small agricultural and /or horticultural business project is used to investigate and report on factors related to production processes, risk management and marketing.

HOMEWORK: Students are expected to complete at least two hours of homework per week. Additional time will also be needed to monitor the Enterprise, especially if dealing with Animals.

ART UNITS 1 & 2

OVERVIEW: This subject caters for students who enjoy and have skills in self expression and creating visual imagery. This can take the form of painting, drawing, photography, printmaking, sculpture, fashion, design, digital media and many more. Students have the opportunity to express themselves in visual terms showing imagination, creativity and innovation. Art acknowledges the value of originality and encourages students to be flexible, think analytically and solve problems.

CAREERS: Art provides access to a wide range of TAFE and University courses and is recommended for students who have an interest in Fine Arts, design, illustration, fashion, teaching, advertising, photography, film, theatre and television etc. This subject also compliments the work done in VCD and Design and Technology.

NATURE OF WORK: Students create Practical Folios that explore themes as well as areas of personal interest. Developmental sketches, trials and experiments are an important of this folio. Finished works are generated from these experiments.

In order to develop a greater understanding of Art students will also study artists and styles from Australia and overseas. They will produce written responses to works and research individual artists.

ICT: ICT is used extensively in Art, both as a research tool as well as a medium in itself. Students explore rich inspiration to broaden their own folios as well as researching artists through the internet.

Digital photography and manipulation of images in Photoshop, scanning and internet research are areas that students will use to generate images and present different visual solutions.

The VCAA handbook sets out the following compulsory areas of study.

UNIT 1&2 OUTCOMES:

1. Folio.

- Exploration of techniques, materials and processes
- Create a broad range of experiments that explore ideas and themes
- Explore issues and areas of personal interest
- Generate folio of completed artworks

2. Response to Art.

- Demonstrate ability to discuss and interpret a variety of artworks
- Learn to interpret the meanings and messages in Art
- Gain an understanding of how an artwork may reflect the artist's interests, experiences and thinking

EXCURSIONS: Visit Art galleries in both Melbourne and regional areas. View 'Top Arts' and 'Top Designs' which showcase the best student folios from previous year.

HOMEWORK: 2 to 3 hours per week of research, experimenting, and working on final solutions. Additional studio time is available in the Art centre after school.

BIOLOGY UNITS

UNITS 1 & 2

OVERVIEW: This subject provides students with the opportunity to study living things that survive in the many different habitats of our biosphere. Biology enables students to understand that despite the diverse ways of meeting the challenges of survival, all living things have many structural and functional characteristics in common.

CAREERS: The study of biology prepares students for continuing studies in bioscience and entry into the workforce in a wide range of careers.

Examples include Biochemistry, Biotechnology, Botany, Marine Biology, Environmental Science, Conservation, Science, Ecology, Agriculture, Animal Technician, Food Science and Nutrition, Forensic Science, Forestry, Medicine, Microbiology, Sports Science, and Zoology.

NATURE OF WORK: Students will be set chapter questions that will require them to show that they have attained key knowledge. Practical classes will support students to improve their confidence when using scientific equipment and develop key investigative skills. Students will be expected to participate in class discussions and oral presentations. End of unit exams will provide one aspect of the assessment.

ICT: Students will use the Internet to research information and new technologies. They will present Power Points on research tasks. The Digital microscope will be used to observe cells and specimens.

AREAS OF STUDY:

The VCAA handbook sets out the following compulsory areas of study.

UNIT 1: How do living things stay alive?

OUTCOMES

- Cells size, structure and function
- Energy transformations, animal adaptations and regulation
- Functioning systems, biodiversity, ecosystems and a practical investigation in relation to the survival of an organism

UNIT 2: How is continuity of life maintained?

OUTCOMES

- Genomes, genes and alleles, patterns of inheritance, analysis of pedigree charts and genetic crosses
- DNA, Human Genome project, chromosomes
- Genetic decision making and an investigation in relation to a genetics and/or reproductive science issue

EXCURSIONS: Students may be expected to participate in an excursion to a local ecosystem or the Melbourne Zoo.

HOMEWORK: At least 2 hours per week for chapter check and review questions, glossary terms, practical reports and test/exam revision.

**CHEMISTR
Y UNITS
1&2**

OVERVIEW: This subject provides students with the opportunity to further develop their knowledge of the Periodic table and its historical development. It will also provide a look at atoms, their structure, how amounts of atoms are measured as well as how atoms bond to each other. This subject also explores the physical and chemical properties of water, reactions that occur in water and various methods of water analysis.

CAREERS / PATHWAYS: Chemistry is part of many careers including Agriculture, Biochemistry, Dietetics, Engineering, Environmental studies, Food, Forensic science, Forestry, Horticulture, Medicine, Oceanography, Pharmacy, Sports Science and Winemaking.

NATURE OF WORK / ASSESSMENT: Students will be set questions, assignments, practical reports, a research investigation and topic tests that will allow them to demonstrate their knowledge of the concepts that have been taught. They will also be set an exam at the end of each Unit.

The VCAA website sets out the following areas of study in detail.

UNIT 1 OUTCOMES:

1. The student should be able to relate the position of elements in the Periodic table to their properties, investigate the structures and properties of metals and ionic compounds, and calculate mole quantities.

2. The student should be able to explain the properties of carbon lattices and molecular substances with reference to their structure and bonding.
3. The student should be able to investigate a question to the development, use and or modifications of a selected material and communicate a response to the question.

UNIT 2 OUTCOMES:

1. The student should be able to relate the properties of water to its structure and bonding, and explain the importance of the properties and reaction of water in selected contexts.
2. The student should be able to measure amounts of dissolved substances in water and analyse water samples for salts, organic compounds and acids and bases.
3. The student should be able to design and undertake a quantitative laboratory investigation related to water quality and draw conclusions based on evidence from collected data.

OTHER COURSE REQUIREMENTS: Students may be expected to go on an excursion to a local Tertiary Institution. Students studying this subject will be expected to have a scientific calculator and a text book.

HOMEWORK: At least 2 hours per week completing set questions and assessment tasks as well as revising completed work for topic tests and end of unit exams.

PRODUCT DESIGN AND TECHNOLOGY UNITS 1&2

OVERVIEW: This study is designed to enable students to understand the design process and product development. Students are encouraged to develop thinking and practical skills to enable creative problem solving. They will work through the design process to develop a design folio based on a design brief, develop research and analytical skills that will enable them to design and produce quality items. Students work with a variety of materials such as wood, metal, plastics, glass and textiles and learn to use a range of tools, equipment and machinery in a safe, competent manner.

UNIT 1 OUTCOMES:

Materials Processes and Design

1. On completion of the unit the students should be able to describe the methods used by designers to design products. They will then apply similar processes to develop their own design folio.
2. On completion of the unit the student should be able to use and evaluate materials, tools, equipment and processes to make a product related to Outcome 1.

Areas of Study

1. Sustainable Product redevelopment.
2. Producing and evaluating a redeveloped product.

UNIT 2 OUTCOMES

Parameters of Design

1. On completion of the unit the student should be able to individually and as a member of a team, identify design problems and issues, develop a design brief, undertake appropriate research, develop design options and compile a design folio.
2. On completion of the unit the student should be able to use and evaluate material, equipment and process to make a product related to outcome 1. Students will be required to work tools both individually and as a member of a team.

AREAS OF STUDY

1. Designing as a team
2. Producing and evaluating a collaboratively designed product

ASSESSMENT

Units 1&2 - School Assessed Coursework

EXCURSIONS AND OTHER EXPENSES

Excursion to Melbourne to view "Top Designs" and Ikea Furniture. Approximate cost \$45.00. Students will be required to meet the cost of materials used in completing practical tasks.

ENGLISH UNITS 1&2

OVERVIEW: This subject focuses on the reading of a range of texts, the development of writing skills and the use of a variety of oral language skills.

CAREERS: English is a compulsory pre-requisite for a range of TAFE and University courses.

NATURE OF WORK: Students will identify and discuss ideas, themes and issues in set texts, and construct responses. Rutherglen High School has had much success with expository and persuasive writing styles. Students will develop effective communication skills in writing taking into account context, purpose and audience. Students will explore ideas and issues orally giving considered reasons for a point of view and listening actively to the views of others.

ICT: In VCE English ICT will focus on word processing and be used for writing essays and researching topics for discussion and orals.
The VCAA handbook sets out the following compulsory areas of study:-

UNIT1 OUTCOMES:

1. Reading and creating texts
2. Analysing and presenting argument

UNIT 2 OUTCOMES:

1. Reading and comparing texts
2. Analysing and presenting argument

HOMEWORK: In VCE English, 3 hours per week of reading texts, completing class work, writing essays, preparing for assessment tasks and revision.

EXCURSIONS: In VCE English students may visit a live production of a play or a film or lectures. Also students will be required to purchase individual texts.

FOOD STUDIES

UNITS 1&2

COURSE DESCRIPTION:

Unit One (Food Origins) focuses on food from historical and cultural perspectives. Students investigate the origins and roles across the world. They will consider the influence of technology and Globalisation on food patterns.

Unit Two (Food Makers) focuses on both small scale (domestic) and commercial food production. Students gain insight into the significance of food industries to the Australian economy and investigate the capacity of industry to provide safe, high-quality food that meet the needs of consumers.

CAREERS/PATHWAYS: This subject is recommended for students who have a desire to enter TAFE or University courses with a food focus such as Hospitality, Food Technology and Dietetics. Food Technology is also very applicable to students who have a passion to work with food.

NATURE OF WORK/ASSESSMENT: Students will complete both practical and theoretical work. They will work independently and as a member of a team to produce products as well as research and implement solutions to a design brief. The emphasis is on the development of practical skills complemented by the associated theory. Students will be assessed using a variety of tasks, including production work, tests, short written reports and oral reports

ICT: In this subject ICT is used for research and for presentation of written work.

THE VC A A handbook sets out the following compulsory areas of study.

UNIT 1: AREAS OF STUDY

1. **Foods around the world:** This unit explores the origins and cultural roles of food, from early civilisations through to today's industrialised and global world.
2. **Food in Australia:** This unit focuses on the history and culture of food in Australia.

UNIT 2: AREAS OF STUDY

1. **Food Industries:** This unit looks at Australia's major food industries, analyses relationships between food suppliers and consumers, discuss measures in place to ensure a safe food supply and design a brief and a food product that demonstrates the application of commercial principles.
2. **Food in the home:** This unit looks at comparing and evaluating similar foods prepared in different settings, explains the influences on effective food provision and preparations in the home, and involves designing and creating a food product that illustrates potential adaptation in a commercial context.

OTHER COURSE REQUIREMENTS: Students will be required to purchase a textbook. The cost of food used during these units is to be met by the student through subject levies.

HOMEWORK: 2 -3 hours per week of research, revision and completing incomplete work.

GEOGRAPHY UNITS:

UNITS 1&2

OVERVIEW: Geography is the study of where geographical features are located, why they are there, what makes one place different from another, and how and why these differences matter. It looks at the interaction between human activities and natural processes to develop understanding of the distribution of human and natural phenomena. This study design focuses on the following spatial concepts: location, scale, distance, distribution, region and movement, spatial change over time, spatial association and spatial interaction. These spatial concepts are all interconnected and, to some degree, overlap.

CAREER/PATHWAYS: Through studying Geography, students develop knowledge and skills that enable them to understand the complex interactions of their world from a spatial perspective. They learn to participate effectively as global citizens in the sustainable use and management of the world's resources. Some career pathways linked to the study in this field are; cartography, environmental management, librarian, education, information science, urban planning, community development, writer/researcher, climatology, GIS specialist.

NATURE OF WORK/ASSESSMENT: Successful completion of Units 1 and 2 will be based on the student's satisfactory completion of a selection of school based assessment tasks. These may include; multimedia/oral presentations; essay/written response tasks and a detailed study. One task must include a field work component.

Within these tasks, students will demonstrate the following key skills; recording and reporting on data collected in the field; data processing, analysis and presentation; collect, sort, process and represent spatial data related to the formation of natural environments using geographic techniques and media, such as fieldwork data; identifying and describe the geographic characteristics of selected natural environments in different locations at two different scales; analysing and explain data about the geographic characteristics of natural environment produced by the interaction of natural processes.

ICT: Student forums, podcasting, internet based research, GIS software programming tools, data collection, analysis/presentation, multimodal presentations

The VC A A handbook sets out the following compulsory areas of study.

Unit 1: Outcome: Natural environments:

This unit investigates the geographic characteristics of at least two natural environments and explores how they are developed by natural processes and can change due to human activities.

Unit 2: Outcome: Human environments:

This unit investigates the characteristics of rural and urban environments which are developed by human activities and their interactions with natural environments.

Other Course Requirements:

Students will be required to purchase a text book.

Homework: It is an expectation that students complete 2-3 hours home work/study each week.

HISTORY - 20TH CENTURY HISTORY 1900 - 2000

UNITS 1 & 2

OVERVIEW: History is the practice of understanding and making meaning of the past. Students learn about their historical past, their shared history and the people, ideas and events that have created present societies

and cultures. It seeks to extend students' cultural, economic, social and political understanding.

CAREERS/PATHWAY: VCE History is relevant to students with a wide range of expectations, including those who wish to pursue formal study at tertiary level, as well as providing valuable knowledge and skills for an understanding of the underpinnings of contemporary society. Some of the career opportunities and fields of work linked to the study of History are; law, journalism, writer/editor, business sector, education, research work, archaeology, curator, government services.

NATURE OF WORK/ASSESSMENT: *Outcomes in Units 1 and 2 are based on the student's performance in three Areas of Study within each Unit.*

These school assessed tasks can take the form of; analytical exercises; annotated maps; short reports; essays; oral presentations; multimedia presentations; film reviews; biographical studies; tests; responses to literature.

Key skills: Students will demonstrate the ability to; locate and select relevant sources; compare and annotate maps, analyse written and visual evidence; use key concepts relevant to the selected historical conflict; synthesise evidence to draw conclusions; present historical material using conventions such as quotations, footnotes and a bibliography.

ICT: Internet research and multimodal presentations, creating podcasts, access to school subscription of vcehistory.info to; participate in student forums, webcasts of history lectures, providing access to archives for research analysis.

The VC A A handbook sets out the following compulsory areas of study.

UNIT 1: Outcomes: Twentieth century history 1918 - 1939

This unit explores the significant changes caused by modernisation and world conflict.

Area Study 1: Ideology and Conflict - This focuses on the impact treaties which concluded World War One had on nations and people. Students examine the dominant ideologies of the period and the impact post-war treaties, developing ideologies and the economic crisis have on the events leading up to World War Two.

Area Study 2: Social and Cultural Change - This focuses on continuity and what change is evident between the 1920s and 1930s in social and cultural life. Students examine how ideologies affect the daily lives of people and how cultural life both reflected and challenged the prevailing political, economic and social circumstances.

UNIT 2: Twentieth century history 1945 - 2000

This unit explores the fundamental developments that enable us to understand world interactions today.

Area Study 1: Competing Ideologies - This focuses upon the causes of the Cold War and the key characteristics of the ideologies of communism in the USSR and democracy and capitalism in the USA. Students examine the impact of the Cold War on nations and people and what led to the end of the Cold War.

Area Study 2: Challenge and Change - This focuses on the significant causes of challenge to and change in existing political and social orders in the second half of the twentieth century. Students examine how the actions and ideas of popular movements and individuals contribute to change. They also look at the impact that challenge and change have on nations and people.

HOMEWORK: Students are expected to complete 2 hours of home work/study per week.

Health & Human Development

Units 1 & 2

OVERVIEW:

Unit 1 looks at health and wellbeing as a concept with varied and evolving perspectives and definitions. It takes a view that health and wellbeing are subject to a wide range of contexts and interpretations, with different meanings for different people. With a focus on youth, students will consider their own health as individuals and as a cohort. Unit 2 investigates transitions in health and wellbeing, and development, from lifespan and societal perspectives. Students look at changes and expectations that are part of the progression from youth to adulthood. Students will also enquire into the Australian healthcare system and extend their capacity to access and analyse health information.

CAREER / PATHWAY:

This subject is recommended for students who have a desire to enter TAFE or complete a university course in areas such as Childcare, Nursing, Teaching, Coaching, Nutrition, Beauty Therapy, Physiotherapy, and many other allied health areas or working with people related jobs / careers e.g. Aged Care. It is also recommended for those students that have a keen interest in improving their understanding of their own Health and Human Development.

NATURE OF WORK / ASSESSMENT:

Throughout each unit students will be required to contribute to discussions, complete research tasks, textbook activities, note taking and experience looking after a simulation baby. Assessment tasks for each unit will include a variety of tasks including; case study analysis, data analysis, visual presentations, multimedia presentations, oral presentations, tests and written responses. It will also include exams mid and end of year

Unit 1 Outcomes - UNDERSTANDING HEALTH AND WELLBEING Area of study 1 - Health perspectives and

influences

This area of study takes abroad, multidimensional approach to health and wellbeing.

Area of study 2 - Health and nutrition

This area of study explores food and nutrition as foundations for good health and wellbeing.

Area of study 3 - Youth health and wellbeing

In this area of study students focus on the health and wellbeing of Australia's youth, and conduct independent research into a selected area of interest.

Unit 2 Outcomes - MANAGING HEALTH AND DEVELOPMENT Area of study 1 - Developmental transitions

This area of study examines the developmental transitions from youth to adulthood, with a focus on expected changes, significant decisions, and protective factors, including behaviours.

Area of study 2 - Health care in Australia

This area of study investigates the health system in Australia.

OTHER COURSE REQUIREMENTS:

Students will be expected to purchase a textbook. As this is a new study design it will be a brand new text book for 2018.

HOMEWORK:

Students will be expected to complete **at least 2 hours homework / revision / study each week**. This will include reading, revision, completion of class work and some assessment tasks.

LEGAL STUDIES UNITS 1 & 2

OVERVIEW: VCE Legal Studies investigates the ways in which the law and the legal system relate to

and serve individuals and the community. Students examine the processes of lawmaking, dispute resolution and the administration of justice in Australia. There are opportunities to apply legal reasoning and decision-making to contemporary cases and issues and make comparisons with international structures and procedures. Skills for independent inquiry, critical thinking and legal reasoning to solve legal problems are fostered.

CAREERS: Legal studies will benefit those who wish to develop their analytical and critical thinking skills whilst learning very practical general knowledge about the legal system that affects all Australian citizens. It will be very useful for those who wish to pursue a career in the following areas: justice system roles such as a police officer, lawyer or court registrar; social work; youth and corrective service workers; roles in crime prevention research and policy making; community education; and public service roles such as policy development. **NATURE OF WORK:** Students develop an ability to identify, collect and process information from a range of sources. There is an emphasis on key skills, particularly those relating to interpretation, analysis, application, research, evaluation, and comparison. A variety of assessment tasks to cater for different learning styles will be set. These will be selected from the following: structured assignment, essay, mock court or role play, folio and report, case study, test and/or report (written, visual, oral or multi-media).

UNIT 1 OUTCOMES - Criminal Law in Action

1. Law in Society: explain the need for effective laws and describe the main sources and types of law in society.
2. Criminal Law: explain the key principles and types of criminal law, apply the key principles to relevant cases, and discuss the impact of criminal activity on the individual and society.
3. The Criminal Courtroom: describe the processes for the resolution of criminal cases, and discuss the capacity of these processes to achieve justice.

UNIT 2 OUTCOMES - Issues in Civil Law

1. Civil law: explain the principles of civil law, law-making by courts, and elements of torts, and apply these to relevant cases.
2. The civil law in action: explain and evaluate the processes for the resolution of civil disputes.
3. The law in focus: explain one or more area/s of civil law, and discuss the legal system's capacity to respond to issues and disputes related to the selected area/s of law.
4. A question of rights: describe an Australian case illustrating rights issues, and discuss the impact of the case on the legal system and the rights of individuals.

Other Course Requirements:

Students will be required to purchase a text book.

EXCURSIONS: Students will attend the local Magistrates Court and possibly the Supreme Court in Melbourne.

HOMEWORK: This will include 2-3 hours per week.

LITERATUR

E UNITS

1&2

OVERVIEW: This subject enables students to explore the use of language in various kinds of texts and the ways in which readers respond to and interpret them.

CAREERS: This subject is recommended for students who have a desire to enter TAFE or university courses such as Arts, Creative Writing, Journalism, Professional Writing and Editing, Public Relations, Personal Assistants.

NATURE OF WORK: Students explore the language, themes and ideas in a range of texts and the ways in which literature interprets personal, social and cultural experiences.

ICT: Students will use computers to write essays and for research.

The VCAA handbook sets out the following compulsory areas of study:-

UNIT1 OUTCOMES:

1. Reading Practices
2. Ideas and Concerns

UNIT 2 OUTCOMES:

1. The text, the reader and their contexts
2. Exploring connections between texts

EXCURSIONS: It may be appropriate to visit a live production of a play.

EXPENSES: Purchase of texts as required.

HOMEWORK: 3 hours per week of reading texts, class work preparation and completion, regular revision of notes.

MATHEMATICAL METHODS

UNITS 1 AND 2

OVERVIEW: This course of study is designed as preparation for Mathematical Methods Units 3 and 4. It is suitable for students who are seeking employment or entrance to University courses at the completion of Year 12 where Mathematical Methods is a prerequisite. An integral part of this course involves students using the CAS Graphics Calculator to assist in solving mathematical problems.

CAREERS AND PATHWAYS:

Mathematical Methods is used for employment and tertiary courses such as Mathematics, some Sciences, Engineering, Medicine and Economics.

NATURE OF WORK AND ASSESSMENT:

Demonstration of achievement will be based on performance from a selection of the following tasks: Assignments, tests, projects, modelling tasks, use of technology, mid-year and final-year exams.

The VCAA website sets out the following areas of study in detail:

Unit 1 will cover the following areas of study.

Functions and graphs: Covers the graphical representation of simple algebraic functions and the key features of these graphs.

Algebra: Provides further support for students' work in the Functions and Graphs, Calculus and Probability and Statistics areas of study.

Calculus: Covers constant and average rates of change and an introduction to instantaneous rate of change which includes graphical and numerical approaches to estimating and approximating these rates of change.

Probability and Statistics: Covers the concepts of event, frequency, probability and representation of finite sample spaces and events using various forms.

Unit 2 will cover the following areas of study.

Functions and graphs: Covers the graphical representation of a single real variable and the key functions of graphs such as axis intercepts, domain, co-domain and range, asymptotic behaviour, periodicity and symmetry.

Algebra: Provides further support for students' work in the Functions and Graphs, Calculus and Probability and Statistics areas of study.

Calculus: Covers the first principles approach to differentiation, differentiation and antidifferentiation of polynomial functions by rule and related application including analysis of graphs.

Probability and statistics: Covers introductory counting principle and techniques and their application to probability and the law of total probability in the case of two events.

OTHER COURSE REQUIREMENTS: Students studying this subject are required to purchase a (CAS) graphics calculator from the school and a text book.

HOMEWORK/PRIVATE STUDY: 2-3 hours per week minimum of homework, completing set work and study for tests and exams is required.

GENERAL MATHEMATICS

UNITS 1&2

OVERVIEW: This course of study caters for a broad range of students who may either wish to undertake General Maths Units 1 and 2 in Year 11 only, or continue on with Further Maths at the Unit 3 and 4 Level. For each unit, content is selected from three of the six areas of study.

CAREERS AND PATHWAYS: This subject is recommended for students wishing to pursue a career in Business Management, Apprenticeships related to Technical Trades such as Mechanical, Building and Construction or those wishing to study the mathematics used in everyday life. Further Maths Unit 3&4 in Year 12 can contribute towards the calculation of an ATAR score for further study.

NATURE OF WORK AND ASSESSMENT: Demonstration of achievement will be based on performance from a selection of the following tasks: Assignments, tests, projects, modelling tasks, use of technology (in particular the CAS graphics calculator), Mid Year and Final Year exams.

The VCAA handbook sets out in detail the following areas of study:

UNITS 1 and 2 will cover a selection from at least 4 of the following 6 areas of study.

Linear relations and equations: Covers the representation and manipulation of linear relations and equations, including simultaneous equations, and their applications.

Arithmetic and number: Covers the mental, by-hand and technology assisted computation with rational numbers, practical arithmetic and financial arithmetic, including estimation, order of magnitude and accuracy.

Discrete mathematics: Covers matrices, graphs and networks, and number patterns and recursion, and their use to model practical situations.

Geometry, measurement and trigonometry: Covers shape, measurement and trigonometry and their application to solve two and three-dimensional problems.

Graphs: Covers continuous models involving linear and non-linear relations and their graphs, inequalities and programming and variation.

Statistics: Covers representing, analysing and comparing data distributions and investigating relationships between two numerical variables.

OTHER COURSE REQUIREMENTS: Students studying this subject are required to purchase a CAS graphics calculator from the school and a text book.

HOMEWORK/PRIVATE STUDY: 2-3 hours per week of homework and private study is required.
Where do these subjects lead to?

Unit 3 & 4 Further Mathematics: Used for employment and general tertiary entrance.

Unit 3 & 4 Mathematical Methods: Used for employment, and tertiary courses such as Mathematics, Science, Medicine, Economics.

Types of unit choices made at Rutherglen are:

Year 11	Leads to	Year 12
VCAL Numeracy		VCAL Numeracy
General Mathematics 1 & 2 Mathematical Methods 1&2	----- ► ----- ►	Further Mathematics 3 & 4 or Mathematical Methods 3 & 4

We advise students to discuss their course selections for mathematics with their subject teachers.

HOMEWORK: Completion of homework is of great importance in mathematics. It will be expected that all students spend sufficient time out of class on a regular basis completing exercises and assignments, and revising their work. This should average out at between two and three hours per week. Students are also expected to see teachers in their private study.

MUSIC

UNITS 1 & 2

OVERVIEW: This subject provides students with the opportunity to further their knowledge and skills in the areas of music performance, theory, listening and composition.

CAREERS: This subject is recommended for students who have a desire to enter TAFE or University Music courses. It also provides an opportunity to develop the knowledge and skills needed to work as a professional musician or composer.

NATURE OF WORK: These units focus on building performance and musicianship skills. Students present performances of selected group and solo music works using one or more instruments. They study the work of other performers and explore strategies to optimize their own approach to performance. They identify technical, expressive and stylistic challenges relevant to works they are preparing for performance and practice technical work to address these challenges. They also develop skills in performing previously unseen music. Students study aural, theory and analysis concepts to develop their musicianship skills and apply this knowledge when preparing and presenting performances.

ICT: Students will make use of software such as Garageband and Sibelius for composition and notation work. Websites activities are also used frequently for developing aural skills. Students will use the Internet for research and print music sourcing.

UNIT 1 OUTCOMES

1. **Performance**
On completion of this unit the student should be able to prepare and perform a program of group and solo works.

2. **Preparing for Performance**
On completion of this unit the student should be able to demonstrate and discuss techniques relevant to the performance of selected works.

3. **Music Language**
On completion of this unit the student should be able to identify, re-create, notate and transcribe elements of music, and describe elements of music, and describe ways in which expressive elements of music may be interpreted.

UNIT 2 OUTCOMES

1. **Performance**
As per Unit 1
2. **Preparing for Performance**
As per Unit 1
3. **Music Language**
As per Unit 1
4. **Organisation of Sound**
On completion of this unit the student should be able to devise a composition or an improvisation that uses music language evident in work/s being prepared for performance.

HOMEWORK: Students are expected to be receiving instrumental or vocal lessons and maintaining a regular routine of effective practice. This combined with aural training and assignment work will require at least 2-3 hours per week.

PSYCHOLOGY

UNITS 1 & 2

OVERVIEW: Psychology is a broad discipline that incorporates both the scientific study of human behaviour through biological, psychological and social perspectives and the systematic application of this knowledge to personal and social circumstances in everyday life. VCE Psychology enables students to explore how people think, feel and behave through the use of biopsychosocial approach. As a scientific model, this approach considers biological, psychological and social factors and their complex interactions in the understanding of psychological phenomena. The study explores the connection between the brain and behaviour by focusing on several key interrelated aspects of the discipline: the interplay between genetics and environment, individual differences and group dynamics, sensory perception and awareness, memory and learning, and mental health. Students examine classical and contemporary research and the use of imaging technologies, models and theories to understand how knowledge in psychology has evolved and continues to evolve in response to new evidence and discoveries.

CAREER PATHWAYS: The study of Psychology leads to opportunities in a range of careers that involve working with children, adults, families and communities in a variety of settings. These include academic and research institutions, management and human resources, and government, corporate and private enterprises. Fields of applied psychology include educational, environmental, forensic, health, sport and organisational psychology. Specialist fields of psychology include counselling and clinical contexts, as well as neuropsychology, social psychology and developmental psychology.

NATURE OF WORK/ASSESSMENT: Assessment tasks are designed to ensure students have demonstrated achievement of the outcomes and may include: structured questions, research investigations and evaluations, an annotated folio of practical activities, media responses, multimedia presentations, essays and exams. The VCAA handbook sets out the following compulsory areas of study.

UNIT 1 OUTCOMES:

1. How does the brain function?

Advances in brain research methods have led to new ways of understanding the relationship between the mind, brain and behaviour. In this area of study students examine how our understanding of brain structure and function has changed over time and how the brain enables us to interact with the external world around us.

2. What influences psychological development?

The psychological development of an individual involves complex interactions between biological, psychological and social factors. In this area of study students explore how these factors influence different aspects of a person's psychological development

3. Student-directed research investigation

In this area of study students apply and extend their knowledge and skills developed in Areas of Study 1 and/or 2 to investigate a question related to brain function and/or psychological development.

UNIT 2 OUTCOMES:

1. What influences a person's perception of the world?

Human perception of internal and external stimuli is influenced by a variety of biological, psychological and social factors. In this area of study students explore two aspects of human perception - vision and taste - and analyse the relationship between sensation and perception of stimuli.

2. How are people influenced to behave in particular ways?

A person's social cognition and behaviour influence the way they view themselves and the way they relate to others.

3. Student-directed practical investigation

In this area of study students design and conduct a practical investigation related to external influences on behaviour.

HOMEWORK: 2-3 hours per week of readings, structured questions and revision.

PHYSICAL EDUCATION

UNITS 1 & 2

OVERVIEW:

VCE Physical Education examines the biomechanical and skill acquisition principles that can be applied when analysing and improving movement skills used in physical activity and sport. It also examines how the major body and energy systems work together to enable movements to occur, and explain fatigue factors and suitable recovery strategies.

CAREER/PATHWAY:

This subject is recommended for students who have the desire to enter TAFE or complete a University course in areas such as Teaching, Coaching, Personal Training, Biomechanics, Physiotherapy, Chiropractic and many other allied health jobs/careers. It is also recommended for those students that have a keen interest in improving their understanding of how their bodies work and perhaps wish to further their own sporting endeavours.

NATURE OF WORK/ASSESSMENT:

Throughout the unit students will be required to contribute to discussions, complete research tasks, textbook activities, note-taking and participate in practical sessions. Assessment tasks for this unit are selected (by the teacher) from a practical laboratory report, case study analysis, data analysis, reflective diary/folio of participation in practical activities, visual presentation, multimedia presentation, oral presentation, a physical simulation or model, test and written response. It will also include an exam at the end of each semester.

UNIT 1 OUTCOMES - THE HUMAN BODY IN MOTION

Area of study 1 - How does the musculoskeletal system work to produce movement?

Systems of the human body and how they translate into movement.

Area of study 2 - How does the cardiorespiratory system function at rest and during physical activity?

The study of the cardiovascular and respiratory systems function and the limiting conditions of each system.

UNIT 2 OUTCOMES - PHYSICAL ACTIVITY, SPORT AND SOCIETY

Area of study 1 - Relationships between physical activity, sport, health and society

Focusses on the role of physical activity, sport and society in developing and promoting healthy lifestyles and participation in physical activity across the lifespan.

Area of study 2 - Contemporary issues associated with physical activity

Focusses on a range of contemporary issues associated with physical activity and/or sport at the local, national and global level.

HOMEWORK:

Students will be expected to complete at least 2 hours homework each week. This will include reading, revision, completion of class work and some assessment tasks.

PHYSICS

UNITS 1 & 2

OVERVIEW: Physics is a science subject that allows the student to explore the physical world. It is taught through a contextual approach to ensure students appreciate the relevance of physics to their everyday experiences of the physical, technological and social environments. Students learn about physics through experiments, research, application problems, use of technology and discussion.

CAREERS AND PATHWAYS: Units 1 and 2 of the Physics study provide Students with the opportunity to engage in a range of learning activities. In addition to demonstrating their understanding and mastery of the content and skills specific to the study, students may also develop employability skills through their learning activities. The nationally agreed employability skills are: Communication, Planning and organising, Teamwork, and Problem solving, Self-management, Initiative and enterprise, Technology and Learning.

AREAS OF STUDY:

Unit 1: What ideas explain the physical world?

1. How can thermal effects be explained?
 - Thermodynamics principles
 - Thermodynamics and climate science
 - Issues related to thermodynamics
2. How do electric circuits work?
 - Concepts used to model electricity
 - Circuit electricity
 - Using electricity
3. What is matter and how is it formed?
 - Origins of atoms
 - Particles in the nucleus
 - Energy from the atom

Unit 2: What do experiments reveal about the real world?

1. How can motion be described and explained?
 - Concepts used to model motion
 - Forces and motion
 - Energy and motion
2. Option
 - Twelve options are available for study. Each option is based on a different observation of the physical world. See study design for details

<http://www.vcaa.vic.edu.au/Documents/vce/physics/PhvsicsSD-2016.pdf>

NATURE OF WORK AND ASSESSMENT: Assessment tasks for this unit to ensure students have demonstrated achievement of the outcomes are:

- short reports, oral, poster or multimedia presentations
- preparation of web pages, response to media articles
- practical work, including written reports
- Short answer / extended response assignments
- Written tests

HOMEWORK: Students are expected to complete two to three hours of homework per week. This includes assessed and non assessed coursework such as completing set exercises, chapter review questions and revision for each area of study.

SOCIOLOGY

UNITS 1 & 2

OVERVIEW: VCE Sociology focuses on the study of human behaviour and social interaction to understand how societies are organized, develop and change. In Units 1 and 2, Sociology students examine key theories regarding youth, family, deviance and crime. In Unit 1 the social category of youth, the differing experiences of young people and the range of the potential negative impacts of categorization, including stereotyping, prejudice and discrimination are explored. The social institution of the family is examined from various sociological perspectives as well as the factors impacting on the notion of

'family'. In Unit 2 different explanations of what constitutes deviant behaviour is considered and factors influencing crime and punishment is investigated.

VCE Sociology provides valuable knowledge and skills for participation in everyday life. It develops a capacity for detailed observation of social patterns and group behavior, and encourages students to become aware of and to think about daily life and activities from a sociological perspective. This study broadens students' insights into key sociological frameworks and social institutions, enabling them to pursue further formal study at a tertiary level or in vocational education and training settings.

CAREER PATHWAYS: The study of Sociology leads to opportunities in a range of careers that involve working with children, adults, families and communities in a variety of settings. These include academic and research institutions, management, human resources in government, corporate and private enterprises. VCE Sociology can lead to tertiary pathways related to work with social groups and social processes; such as in culture resource management and community development, or work with minority and ethnic groups. It can lead to work in fields that address issues such as crime and substance abuse, youth and family matters, industrial relations, social justice and social issues related to health care.

NATURE OF WORK/ASSESSMENT: Assessment tasks are designed to ensure students have demonstrated achievement of the outcomes and may include: multimedia presentations, short and extended response questions, an interview and written report, essays and exams, an annotated media file and a film analysis. The VC A A handbook sets out the following compulsory areas of study.

UNIT 1 OUTCOMES: Youth and family

1. Category and experience of youth

On completion of this unit students should be able to describe the nature of sociological inquiry and discuss, in an informed way, youth as a social category

2. The family

On completion of this unit students should be able to analyse the institution of family.

UNIT 2 OUTCOMES: Social norms, breaking the code

1. Deviance

On completion of this unit the student should be able to analyse a range of sociological theories explaining deviant behaviour and the impact of moral panic on those considered deviant.

2. Crime

On completion of this unit students should be able to discuss crime in Australia and evaluate the effectiveness of methods of punishment in the judicial system for shaping human behaviour.

HOMEWORK: Students are expected to complete 2 hours of homework/study a week.

VISUAL COMMUNICATION AND DESIGN

UNITS 1&2

OVERVIEW: This subject provides students with the opportunity to learn and develop skills in design and creating visual solutions. The fields of architecture, advertising and marketing, multimedia, engineering, fashion, product design are presented to the students as a focus for creative visual design. Drawing, photography, market research, designing, computer graphics are skills that are enhanced.

CAREERS: This subject is recommended for students who have a desire to enter TAFE or University design courses such as Graphic Design, Architecture, Landscape Design, Photography, Advertising, Event Promotion, Fashion, Furniture, Cartography, Engineering and Design.

NATURE OF WORK: Students will be set assignment work that will require them to show that they have attained key knowledge and developed key skills through individual design solutions. They will develop their work using the Design Process and with the needs and influence of a client and intended audience. Drawing, both instrumental and freehand form a vital part of the generation of design ideas. The significant part of the course is the practical application of skills. Research and theory is necessary to the understanding of these processes and systems.

ICT: Photoshop®, InDesign® and Google Sketch-up® are the main programs that students will learn and use in the generation of their images. Digital photography, scanning, Web research are essential components of generating imagery and visual solutions.

The VCAA handbook sets out the following compulsory areas of study.

UNIT 1: Introduction to visual communication and design OUTCOMES:

1. Create drawings for different purposes using a range of drawing methods, media and materials.
2. Select and apply design elements and design principles to create visual communications that satisfy stated purposes.
3. Describe how a visual communication in a design field has been influenced by past and contemporary practices, and by social and cultural factors.

UNIT 2 : Applications of visual communication within design fields OUTCOMES:

1. Create presentation drawings that incorporate relevant technical drawing conventions and effectively communicate information and ideas for a selected design field.
2. Manipulate type and images to create visual communications suitable for print and screen-based presentations, taking into account copyright.
3. Apply stages of the design process to create a visual communication appropriate to a given brief.

EXCURSIONS: Students will travel to Melbourne for the 'Top Designs' exhibition as well as visiting other galleries and/or exhibitions.

HOMEWORK: 2-3 hours per week of research, drawing and working on design options and solutions.

UNITS 3 & 4

ACCOUNTING: UNIT 3 & 4

Overview:

Unit 3 focuses on financial accounting for a single activity trading business as operated by a sole trader and emphasises the role of accounting as an information system. Accounting procedures are developed in each area of study. In Unit 4 unit provides an extension of the recording and reporting processes from Unit 3 and the use of financial and non-financial information in assisting management in the decision-making process.

Career/Pathways:

This subject is recommended for those who may wish to operate their own business in the future or have a desire to enter TAFE or university course which has a small business focus such as Accounting, Law, Economics, Management or Commerce.

Nature of Work and Assessment:

Class work will include bookwork, regular tests involving recording and reporting and case studies involving preparation of reports using ICT.

The VCAA handbook sets out the following compulsory areas of study:

AREA OF STUDY 1 - Unit 3 - Recording and analysing financial data

Outcome 1: Record financial data using a double entry system; explain the role of the General Journal, General Ledger and inventory cards in the recording process; and describe, discuss and analyse various aspects of the accounting system, including ethical considerations.

AREA OF STUDY 2 - Unit 3 - Preparing and interpreting accounting reports

Outcome 2: Record transactions and prepare, interpret and analyse accounting reports for a trading business.

AREA OF STUDY 1- Unit 4 - Extension of recording and reporting

Outcome 1: Record financial data and balance day adjustments using a double entry system, report accounting information using an accrual-based system and evaluate the effect of balance day adjustments and alternative methods of depreciation on accounting reports.

AREA OF STUDY 2 - Unit 4 - Budgeting and decision-making

Outcome 2: Prepare budgeted accounting reports and variance reports for a trading business using financial and other relevant information, and model, analyse and discuss the effect of alternative strategies on the performance of a business.

Unit 3 School-assessed Coursework: 17 per cent Unit 4 School-assessed Coursework: 17 per cent Mid-year examination: 33 per cent End-of-year examination: 33 per cent.

Other course requirements:

Students will be required to purchase a text book.

AGRICULTURE AND HORTICULTURE UNITS 3&4

OVERVIEW: This subject focuses on a range of technologies that are currently used by commercial Agricultural and Horticultural businesses and reviews areas where change and innovation are occurring. Students will also study the management of agricultural and/or horticultural systems within the context of ecological sustainability. It looks at issues associated with land, plant and animal management.

CAREER/PATHWAY: Agricultural Scientists, Farm Manager, Agronomist, Manager in Landcare, Irrigation Services, Wine Maker, Vineyard Manager, Food Technologist, Water Policy Adviser, Business Management, Horticulturist, Stock and Station Agent.

NATURE OF WORK/ASSESSMENT: Throughout the Unit students will be required to contribute to discussions, complete research tasks, textbook activities, note taking and prepare for the end of year examination. Assessment tasks for this unit are selected by the teacher.

UNIT 3

Area of study 1-Technology, Innovation and Business Practices

Students will use case studies to focus on new technology, innovation and business practices. In 2014 this was based on a visit to the Howlong Nursery. These technologies may be used to modify climate, soil/growing media and topography. It also looks at how soil and water resources, pests and weeds are managed. Students also analyse the relationship between decision making and the application of technology that may affect the business.

Area of study 2 - New and Emerging Technologies

This study focuses on new and emerging technologies that is either in the early stages of production or is in the research phase. Students will need to research these technologies. Students should be able to describe the range and evaluate the predicted impact of innovations that are likely to affect a specific business in the near future.

UNIT 4

Area of study 1 - Sustainability in agriculture and/or horticulture

This area focuses on concepts of sustainability and how they relate to productivity. The ability to identify, rectify and prevent environmental degradation is also studied at length. Students also cover how ecological and production management practices work together to create sustainable business

Area of study 2 - Resource management and maintenance

This area of study focuses on resource management practices within agricultural and/or horticulture systems and the role of government agencies.

Area of study 3 - Business implementation and evaluation

Students look at actual Agricultural and Horticultural business and examine small business practices. This includes OH&S, Production Plans, Financial Plans and Quality Assurance.

OTHER COURSE REQUIRMENTS: Students will be required to run a small business. Some time will be given to monitor/assess the running of the business during class time, but the majority of the work will be required out of school hours.

HOMEWORK: Students will be expected to complete at least 3 hours homework each week. This will include reading, revision, completion of class work, running a small business and some assessment tasks.

ART UNITS 3 &4

OVERVIEW: This subject caters for students who enjoy and have skills in self expression and creating visual imagery. This can take the form of painting, drawing, photography, printmaking, sculpture, fashion, design, digital media and many more. Students have the opportunity to express themselves in visual terms showing imagination, creativity and innovation. Art acknowledges the value of originality and encourages students to be flexible, think analytically and solve problems.

CAREERS: Art provides access to a wide range of TAFE and University courses and is recommended for students who have an interest in Fine Arts, design, illustration, fashion, teaching, advertising, photography, film, theatre and television etc. This subject compliments the work done in VCD and Design and Technology.

NATURE OF WORK: Students create Practical folios that explore themes as well as areas of personal interest.

Developmental sketches, trials and experiments are an important part of this folio. Finished works are generated from these experiments.

In order to develop a greater understanding of Art students will study Artists and styles from Australia and overseas. They will produce written responses to works and research individual artists. Contemporary Art, art from other cultures and times and Issues in Art are also studied.

ICT: ICT is used extensively in Art both as a research tool as well as a medium in itself. Students explore rich inspiration to broaden their own folios as well as researching Artists through the internet.

Digital photography and manipulation of images in Photoshop, scanning and internet research are areas that students will use to generate images and present different visual solutions.

THE VCAA handbook sets out the following compulsory areas of study.

UNIT 3 & 4 OUTCOMES:

1. Folio.

Exploration of techniques, materials and processes

Create a broad range of experiments that explore ideas and themes

Explore issues and areas of personal interest

Generate a body of work and at least one finished artwork for Unit 3
Generate a body of work and at least one finished artwork for Unit 4

2. Response to Art.

Demonstrate ability to discuss and interpret a variety of artworks
Interpret the meanings and messages in Art
Gain an understanding of how an artwork may reflect the artist's interests, experiences and thinking

ASSESSMENT: School Assessed Task (Body of Work) - 50%

School Assessed Coursework Unit 3 - 10%, Unit 4 - 10%, Final Exam - 30%.

EXCURSIONS: Visit Art galleries in both Melbourne and regional areas. View 'Top Arts' and 'Top Designs' which showcase the best student folios from previous year.

HOMEWORK: 3 to 4 hours per week of research, experimenting, and working on final solutions. Additional studio time is available in the Art centre after school.

BIOLOGY UNITS 3 & 4

OVERVIEW

Biology is the study of living things and their interactions with the environment. Unit 3 focuses on the molecules and biochemical processes that are indicators of life. In the second semester students will examine evidence for evolution of life forms over time. Students also investigate technological advances that have contributed to our knowledge and understanding.

CAREER / PATHWAY

The study of biology prepares students for continuing studies in bioscience and entry into the workforce in a wide range of careers. Examples include Biochemistry, Biotechnology, Botany, Marine Biology, Environmental Science, Conservation, Ecology, Science, Ecology, Agriculture, Animal Technician, Food Science and Nutrition, Forensic Science, Forestry, Medicine, Vet Science, Microbiology, Sports Science and Zoology.

NATURE OF WORK/ASSESSMENT

Throughout the year students will be required to contribute to discussions and complete research tasks, textbook activities, note taking, practical tasks and written responses.

The student's level of achievement will be determined by School-assessed Coursework selected by the teacher and an exam.

Unit 3 School-assessed Coursework: 16%
Unit 4 School-assessed Coursework: 24%
End-of-year examination (set by VCAA): 60%

UNIT 3: How do cells maintain life?

Area of Study 1: How do cellular processes work?

Students will examine the following key areas: the activities of cells, the nature of the plasma membrane, the role of enzymes, energy transformations and the expression of the genetic code.

Area of Study 2: How do cells communicate?

Students investigate how nerves and hormones assist in coordinating cell activities. Students will study how cells detect 'self' and 'non-self' molecules and the mechanisms of the immune system.

UNIT 4: How does life change and respond to challenges over time?

Area of Study 1: How are species related?

Students analyse evidence for evolutionary change, explain how relatedness between species is determined, and elaborate on the consequences of biological change in human evolution.

Area of Study 2: How do humans impact on biological processes?

Students will be required to describe how tools and techniques can be used to manipulate DNA, explain how biological knowledge is applied to biotechnical applications, and analyse the interrelationship between scientific knowledge and its applications in society.

Area of study 3: Students design, conduct and analyse data from a practical investigation.

OTHER COURSE REQUIREMENTS:

Students will be required to attend a practical session at La Trobe University, Wodonga during Unit 4.

Students will be required to submit work from this session to achieve satisfactory results for the School Assessed Coursework.

HOMEWORK:

Students will be expected to complete at least 4 hours homework each week. This will include reading, chapter questions and glossaries, completion of class work, revision, and completing past exams.

CHEMISTRY

UNITS 3 & 4

OVERVIEW: This subject enables students to explore key processes related to the efficient production and use of energy and materials. It also allows students to investigate how carbon based compounds are important components of body tissue and materials used in society.

CAREERS/PATHWAYS: Chemistry is applied in many fields of endeavour including agriculture, bushfire research, dentistry, dietetics, education, engineering, environmental sciences, forensic science, forestry, horticulture, medicine, metallurgy meteorology, pharmacy, sports science, toxicology, veterinary science and viticulture.

NATURE OF WORK/ASSESSMENT: Students will be set questions, assignments, and topic tests that will allow them to demonstrate their knowledge of the concepts that have been taught. They will also be set SACs (in most cases these are Lab reports), the results of which will count towards their study score. They will also be set an end of year (2 Zz hrs) exam whose result will contribute 60% towards their study score.

UNIT 3 OUTCOMES:

1. On completion of this unit the student should be able to compare fuels quantitatively with reference to combustion products and energy outputs, apply knowledge of the electrochemical series to design, construct and test galvanic cells, and evaluate energy resources based on energy efficiency, renewability and environmental impact.

2. On completion of this unit the student should be able to apply rate and equilibrium principles to predict how the rate and extent of reactions can be optimised, and explain how electrolysis is involved in the production of chemicals and in the recharging of batteries.

UNIT 4 OUTCOMES:

1. On completion of this unit the student should be able to compare the general structures and reactions of the major organic families of compounds, deduce structures of organic compounds using instrumental analysis data, and design reaction pathways for the synthesis of organic molecules.
2. On completion of this unit the student should be able to distinguish between the chemical structures of key food molecules, analyse the chemical reactions involved in the metabolism of the major components of food including the role of enzymes, and calculate the energy content of food using calorimetry.
3. On completion of this unit the student should be able to design and undertake a practical investigation related to energy and/or food and present methodologies, findings and conclusions in a scientific poster.

OTHER COURSE REQUIREMENTS: Students may be expected to go on an excursion to one or two Tertiary Institutions to use their Laboratory facilities.

HOMEWORK: At least 2 - 3 hours per week completing set questions and assessment tasks as well as revising completed work for end of unit exams.

PRODUCT DESIGN AND TECHNOLOGY: UNITS 3 & 4

OVERVIEW: This study is designed to enable students to: Develop an understanding of design and product development, identify design problems and develop solutions through the design and production processes. Students will understand the relationship between the properties of materials and their selection and use as part of the design process. It will enable them to acquire, extend and apply a range of practical skills related to design, safe use of tools, equipment and machines and develop an understanding of the process used in manipulation of material. They will develop sequential planning, organisational and efficient work skills and practices, an understanding of different manufacturing methods and processes applied in a range of settings and develop skills in evaluation of products and processes using specified criteria.

OUTCOMES UNIT 3 - PRODUCT DEVELOPMENT

1. Explain the role of a designer and how products are designed and produced to meet the needs of a client.
2. Explain how products are designed and produced within an industrial/commercial setting.
3. Develop a folio that documents the procedure and decision making process in addressing the requirements of a design brief. Commence production of the designed product.

AREAS OF STUDY

1. The designer, client and user in product development.
2. Product development in industry.
3. Designing for others.

EXCURSIONS AND OTHER EXPENSES: Students will be required to attend an excursion to Melbourne to view the "Top Designs" exhibition. Approximate cost - \$45.00.
Cost of materials utilised in the completion of production tasks will need to be met by students.

OUTCOMES UNIT 4 - PRODUCT EVALUATION AND MARKETING

1. Analyse similar product types through a comparison of innovative features, aesthetic appeal, function and user needs. Economic, social and environmental benefits and costs will also be identified.
2. Competently and safely apply a range of production skills and processes to implement the production

- plan, make the product designed in Unit 3, Outcome 3, and manage time and resources efficiently.
3. Evaluate the outcomes of the design and production activities and promote the product's design features to the client and/or end user.

AREAS OF STUDY

1. Product analysis and comparison
2. Product manufacture
3. Product evaluation and promotion

ASSESSMENT:

School Assessed Coursework - 20%, School Assessed task (Folio & Product) - 50%
End of Year Examination-30%

HOMEWORK: Students will be expected to complete an additional 2 - 3 hours per week outside of class time, in areas of design, research and practical work.

EXCURSIONS AND OTHER EXPENSES: Cost of materials utilised in the completion of production tasks will need to be met by students.

ENGLISH

UNITS 3 & 4

OVERVIEW: Students read and respond both orally and in writing to a range of texts. Students analyse how the authors of texts create meaning and the different ways in which texts can be interpreted. They develop competence in creating written texts by exploring ideas suggested by their reading within the chosen context, and the ability to explain choices they have made as authors.

The VCAA handbook sets out the following compulsory areas of study:

UNITS 3 OUTCOMES:

Area of Study 1 - Reading and Creating Texts.

Students analyse texts and prepare analytical and creative responses to them.

Area of Study 2 - Analysing argument:

Students analyse and compare the arguments and language in texts that debate a topical issue.

UNIT 4 OUTCOMES:

Area of Study 1 - Reading and Comparing Texts.

Students explore the connections between two texts, producing a written analysis comparing said texts.

Area of Study 2 - Presenting argument.

Students develop a point of view on an issue and deliver their viewpoint orally, to persuade their audience to their point of view.

End of year examination (October)

Description

All outcomes and the key knowledge and skills that underpin the outcomes in Units 3 and 4 are examinable. The examination will be set by a panel appointed by the VCAA.

Reading and Creating Texts

Students will be required to write a response to one of two texts selected from English/ESL Text List 1 published annually by the VCAA for Outcome 1.

Comparing Texts

Students will be required to write for a nominated audience and purpose drawing on ideas suggested by their selected Context drawing directly from at least one text selected from English/ESL Text List published annually by the VCAA for Outcome 2.

Analysing Argument

Students will be required to analyse the use of language in unseen persuasive text/s.

FOOD STUDIES

UNITS 3 &4

COURSE DESCRIPTION:

Unit three investigates the many roles and everyday influences of food.

Unit four examines debates about global and Australian food systems.

CAREERS / PATHWAYS: This subject is recommended for students who have a desire to enter TAFE or University courses with a food focus such as Hospitality, Food Technology and Dietetics. Food & Technology is also very applicable to students who have a passion to work with food.

NATURE OF WORK / ASSESSMENT: Students will complete both practical and theoretical work. They will work independently and as a member of a team to produce products as well as research.

School assessed coursework for Unit 3 will contribute 30% to the final assessment. It consists of two equal outcomes (50% each).

School assessed coursework for Unit 4 will also contribute 30% to the final assessment and consists of two outcomes (outcome 1 - 60% and outcome 2 - 40%).

The 1 K hour end of year examination contributes 40% to the final assessment.

ICT: In this subject ICT is used for research and for presentation of written work as well as completion of outcomes.

THE VCAA handbook sets out the following compulsory areas of study.

UNIT 3: Food in daily life

AREAS OF STUDY

1. **The science of food:** On completion of this unit the student should be able to explain the processes of eating and digesting food and absorption of macronutrients, explain causes and effects of food allergies, food intolerances and food contamination, analyse food selection models, and apply principles of nutrition and food science in the creation of food products.
- 2 **Food choice, health and wellbeing:** On completion of this unit the student should be able to explain and analyse factors affecting food access and choice, analyse the influences that shape an individual's food values, beliefs and behaviours, and apply practical skills to create a range of healthy meals for children and families.

UNIT 4: Food issues, challenges and futures

AREAS OF STUDY

1. **Environment and ethics:** On completion of this unit the student should be able to explain a range of food systems issues, respond to selected debate with analysis of problems and proposals for future solutions, apply questions of sustainability and ethics to the selected food issue and develop and create a food repertoire that reflects personal food values and goals.
2. **Navigating food information:** On completion of this unit the student should be able to explain a variety of food information contexts, analyse the formation of food beliefs, evaluate a selected food trend, fad or diet and create food products that meet the Australian Dietary Guidelines.

OTHER COURSE REQUIREMENTS: Students will be required to purchase a textbook. The cost of food used during these units is to be met by the student through subject levies.

HOMEWORK: Students will be expected to complete at least 3 hours homework each week. This will include reading, completion of class work and revision activities.

GEOGRAPHY

UNITS 3 & 4

OVERVIEW: Geography is the study of where geographical features are located and why they are there, and what makes one place different from another, and how and why these differences matter. It looks at the interaction between human activities, natural processes and develops understanding of the distribution of human and natural phenomena.

This study design focuses on the following spatial concepts: location, scale, distance, distribution, region and movement, spatial change over time, spatial association and spatial interaction. These spatial concepts are all interconnected and to some degree overlap.

CAREER/PATHWAY: Through studying Geography, students develop knowledge and skills that enable them to understand the complex interactions of their world from a spatial perspective. They learn to participate effectively as global citizens in the sustainable use and management of the world's resources. Some career pathways linked to the study in this field are; cartography, environmental management, librarian, education, information science, urban planning, community development, writer/researcher, climatology, GIS specialist.

NATURE OF WORK/ASSESSMENT: Successful completion of Units 3 and 4 will be based on the student's satisfactory completion of a selection of school based and external assessments. These may include; a data analysis, a case study, a multimedia presentation, a structured essay, a report and structured short answer questions. Within these tasks, students will demonstrate some of the following key skills;

- conduct fieldwork, process and represent fieldwork data using a range of geographic techniques and media;
- interpret processed fieldwork data;
- synthesise fieldwork data to justify a future policy for sustainable resource use;
- understand the resource in its regional context; identify, locate and extract data from print and electronic sources about global perspectives on the human population and one other global phenomenon.

ICT: Student forums, podcasting, internet based research, GIS software programming tools, data collection, analysis/presentation, multimodal presentations

AREA OF STUDY 1 - Unit 3 - Land use change

Outcome 1: Analyse, describe and explain land use change and assess its impacts.

AREA OF STUDY 2 - Unit 3 - Land cover change

Outcome 2: Analyse, describe and explain processes that result in changes to land cover and discuss the impacts and responses resulting from these changes.

AREA OF STUDY 1 - Unit 4 - Population Dynamics

Outcome 1: Analyse, describe and explain population dynamics on a global scale.

AREA OF STUDY 2 - Unit 4 - Population issues and challenges

Outcome 2: Analyse, describe and explain the nature of significant population issues and challenges in selected locations and evaluate responses.

Fieldwork: A field work component is a requirement in this area of study.

Homework: Student's are required to complete 2-3 hours of homework/study each week.

HISTORY

UNITS 3 &4 - AUSTRALIAN HISTORY

OVERVIEW: History is the practice of understanding and making meaning of the past. Students learn about their historical past, their shared history and the people, ideas and events that have created present societies and cultures. It seeks to extend students' cultural, economic, social and political understanding.

CAREER/PATHWAY: VCE History is relevant to students with a wide range of expectations, including those who wish to pursue formal study at tertiary level, as well as providing valuable knowledge and skills for an understanding of the underpinnings of contemporary society. Some of the career opportunities and fields of work linked to the study of History are; law, journalism, writer/editor, business sector, education, research work, archaeology, curator, government services.

NATURE OF WORK/ASSESSMENT: Outcomes in Units 3 and 4 are based on the student's performance in two Areas of Study. The assessment tasks must take the form of the following; a research report, analysis of visual and/or written documents and historiographical exercises.

ICT: Internet research and multimodal presentations, creating podcasts, access to school subscription of vcehistory.info to participate in; student forums, webcasts of history lectures, providing access to archives for research analysis.

AREA OF STUDY 1 - Unit 3 - The reshaping of Port Phillip District/Victoria, 1834 -1860

Outcome 1: Analyse the nature of change in the Port Phillip District/Victoria in the period 1834-1860.

AREA OF STUDY 2 - Unit 3 - Making People and a nation 1890 -1920

Outcome 2: Analyse the visions and actions that shaped the new nation from 1890 to 1920, and the changes and continuities to these visions that resulted from participation in World War One.

AREA OF STUDY 1- Unit 4 - Crises that tested the nation 1929 - 1945.

Outcome 1: Analyse the social, economic and political consequences of a crisis on the nation.

AREA OF STUDY 2 - Unit 4 - Voices for change 1965 - 2000

Outcome 2: Analyse and evaluate two key social, economic and political changes in late twentieth century Australia.

The following four assessment tasks must be taken over Units 3 and 4:

- **research report**
- **historiographical exercise**
- **analysis of visual and/or written documents**
- **essay.**

Course work: 25% of study score. End of year exam: 50% of study score.

Homework: Students are required to complete 2-3 hours of home work /study per week.

MUSIC PERFORMANCE

UNITS 3 & 4

OVERVIEW: This subject provides students with the opportunity to further their knowledge and skills in the areas of preparing and presenting music performances. Theory and aural skills are also developed

further.

CAREERS: This subject is recommended for students who have a desire to enter TAFE or University Music courses. It also provides an opportunity to develop the knowledge and skills needed to work as a professional musician.

NATURE OF WORK: Throughout the year, students will prepare a program of musical works for an external, end-of-year performance examination as a soloist OR a member of a group. Regular in-class performances are expected. They develop instrumental techniques that enable them to interpret the works and expressively shape their performances. They also develop an understanding of performance conventions they can use to enhance their performances. Students develop skills in unprepared performance, aural perception and comprehension, transcription, music theory and analysis.

ICT: Students will make use of ICT to present work and record performances. Websites activities are also used frequently for developing aural skills. Students will use the Internet for research and print music sourcing.

The VCAA handbook sets out the following compulsory areas of study.

OUTCOMES: UNIT 3 and 4

1. **Performance:** On completion of this unit the student should be able to present an informed, accurate and expressive performance of a program of group and solo works.
2. **Performance Technique:** On completion of this unit the student should be able to demonstrate performance techniques, technical work and exercises, and describe their relevance to the performance of selected group and/or solo works, and present an unprepared performance.
3. **Musicianship:** On completion of this unit the student should be able to identify, recreate, notate and transcribe short excerpts of music, and discuss the interpretation of expressive elements of music in pre-recorded works.

HOMEWORK: Students are expected to be receiving instrumental or vocal lessons and maintaining a regular routine of effective practice. This combined with aural training and assignment work will require at least 3-4 hours per week.

POLITICS

UNITS 3 & 4 - GLOBAL POLITICS

OVERVIEW: VCE Global Politics is the study of contemporary power at both regional and global levels. Through this study students explore, explain and evaluate global political issues, problems and events, the forces that shape these and responses to them. Global Politics examines the recent past and current events and importantly how states (countries) deal with these events.

CAREER/PATHWAY: VCE Global Politics provides students with an insight into the political, social, cultural and economic forces that shape our rapidly changing world. VCE Global Politics provides knowledge and skills that prepare students for formal study at the tertiary level or in vocational education and training settings. It also leads to opportunities in a range of careers, including academia, management, and government. Students may also pursue occupations in corporate and private enterprises in fields such as journalism, law, research and politics.

NATURE OF WORK/ASSESSMENT: Outcomes in Units 3 and 4 are based on the student's performance in two Areas of Study. The assessment tasks mimic the end of year exam; which takes the form of short answer questions and an essay.

ICT: Internet research, multimodal presentations, creating podcasts, access to online resources including student forums, webcasts of lectures, and to archives for case studies analysis.

AREA OF STUDY 1 - Unit 3 - Global actors

Outcome 1: Evaluate the power of key global actors and assess the extent to which they achieve their aims and are able to challenge state sovereignty.

AREA OF STUDY 2 - Unit 3 - Power in the Asia-Pacific

Outcome 2: Analyse and evaluate the effectiveness of the use of various types of power by a specific Asia-Pacific state in pursuit of its national interests.

AREA OF STUDY 1 - Unit 4 - Ethical issues and debates

Outcome 1: Analyse the debates relating to TWO global ethical issues, and evaluate the effectiveness of global actors' responses to these issues.

AREA OF STUDY 2 - Unit 4 - Global crises

Outcome 2: Analyse TWO contemporary global crises and evaluate the effectiveness of global actors' responses to these.

The four assessment tasks taken over Units 3 and 4 prepare students for the end of year exam which consists of short answer questions and an essay response.

Course work: 25% of study score. End of year exam: 50% of study score.

Homework: Students are required to complete 2-3 hours of homework / study per week.
Including watching relevant news programs and reading the newspapers.

HEALTH AND HUMAN DEVELOPMENT UNITS 3 & 4

COURSE DESCRIPTION: Unit 3, students begin to explore health and wellbeing as a global concept and to take a broader approach to inquiry. Students look at the fundamental conditions required for health improvement, as stated by the World Health Organization (WHO). Students look at various public health approaches and the interdependence of different models as they research health improvements and evaluate successful programs. Unit 4 examines health and wellbeing, and human development in a global context. Students use data to investigate health status and burden of disease in different countries, exploring factors that contribute to health inequalities between and within countries. They consider the health implications of increased globalisation and worldwide trends relating to climate change, digital technologies, world trade and the mass movement of people. Students will look at global action to improve health and wellbeing and human development, focusing on the United Nations' (UN's) Sustainable Development Goals (SDGs) and the work of the World Health Organization (WHO). Students also investigate the role of non-government organisations and Australia's overseas aid program.

CAREERS / PATHWAYS: This subject is recommended for students who have the desire to enter TAFE or complete a University course in areas such as Childcare, Nursing, Teaching, Nutrition, Health Promotion, Physiotherapy, Speech Therapy and many other allied health or working with people related jobs / careers. It is also recommended for those students that have a keen interest in improving their understanding of Health, Human Development and local and global health issues.

NATURE OF WORK / ASSESSMENT:

School assessed coursework for Unit 3 will contribute 25% to the final assessment. It consists of two outcomes. School assessed coursework for Unit 4 will also contribute 25% to the final assessment and also consists of two outcomes. The end-of-year examination contributes 50% to the final assessment.

ICT: Students will have the ability to stay in contact with the teacher on a regular basis by using their school email and web based programs such as EDMODO. Students will use ICT to research content and watch various videos relating to the content.

THE VCAA handbook sets out the following compulsory areas of study.

UNIT 3: AREAS OF STUDY - Australia's health in globalised world.

1. **Understand Health and Wellbeing-** On completion of this unit the student should be able to explain the complex, dynamic and global nature of health and wellbeing, interpret and apply Australia's health status data and analyse variations in health status.
2. **Promoting Health and Wellbeing** - On completion of this unit the student should be able to explain changes to public health approaches, analyse improvements in population health over time and evaluate health promotion strategies.

UNIT 4: AREAS OF STUDY - Health and human development in a global context.

1. **Health and wellbeing in a global context** - On completion of this unit the student should be able to analyse similarities and differences in health status and burden of disease globally and the factors that contribute to differences in health and wellbeing.
2. **Health and sustainable development goals** - On completion of this unit the student should be able to analyse relationships between the SDGs and their role in the promotion of health and human development, and evaluate the effectiveness of global aid programs.

OTHER COURSE REQUIREMENTS: Students will be required to purchase a textbook.

HOMEWORK: Students will be expected to complete at least 3 hours homework each week. This will include reading, completion of class work and revision activities.

LEGAL STUDIES UNITS 3 & 4

OVERVIEW: VCE Legal Studies investigates the ways in which the law and the legal system relate to and serve individuals and the community. Students examine the processes of law-making, dispute resolution and the administration of justice in Australia. There are opportunities to apply legal reasoning and decision-making to contemporary cases and issues and make comparisons with international structures and procedures. Skills for independent inquiry, critical thinking and legal reasoning to solve legal problems are fostered.

CAREERS: Legal studies will benefit those who wish to develop their analytical and critical thinking skills whilst learning very practical general knowledge about the legal system, parliament and the constitution, that affects all Australian citizens. It will be very useful for those who wish to pursue a career in the following areas: politics; justice system roles such as a police officer, lawyer or court registrar; social work; youth and corrective service workers; roles in crime prevention research and policy making; community education; and public service roles such as policy development.

NATURE OF WORK: Students develop an ability to identify, collect and process information from a range of sources. There is an emphasis on key skills, particularly those relating to interpretation, analysis, application, research, evaluation, and comparison. A variety of assessment tasks to cater for different learning styles will be set. These will be selected from the following: case study, structured questions, essay, test, report (written or multi-media), and a folio of exercises. The student's level of achievement for Units 3 and 4 will be determined by School-assessed Coursework (50%) and an end-of-year examination (50%).

UNIT 3 OUTCOMES - Law-making

1. Parliament and the citizen: explain the structure and role of parliament, including its processes and effectiveness as a law-making body, describe why legal change is needed, and the means by which such change can be influenced.
2. The constitution and the protection of human rights: explain the role of the Commonwealth Constitution in defining law-making powers within a federal structure, analyse the means by which law-making powers may change, and evaluate the effectiveness of the Commonwealth Constitution in protecting human rights.
3. Role of the courts in law-making: describe the role and operation of courts in law-making, evaluate their effectiveness as law-making bodies and discuss their relationship with parliament.

UNIT 4 OUTCOMES - Resolution and justice

1. Dispute resolution methods: describe and evaluate the effectiveness of institutions and methods for the determination of criminal cases and the resolution of civil disputes.
- 2 Court processes and procedures, and engaging in justice: explain the processes and procedures for the resolution of criminal cases and civil disputes, and evaluate their operation and application, and evaluate the effectiveness of the legal system.

EXCURSIONS: These may include visits to the local Magistrates Court, Supreme Court, State Parliament, and the Victorian Civil and Administrative Tribunal (VCAT).

HOMEWORK: This will include 3-4 hours per week.

LITERATURE

UNITS 3 &4

OVERVIEW: This subject enables students to explore the use of language in various kinds of texts and the ways in which readers respond to and interpret them.

CAREERS: This subject is recommended for students who have a desire to enter TAFE or university courses such as Arts, Creative Writing, Journalism, Professional Writing and Editing, Public Relations, Personal Assistants.

NATURE OF WORK: Students will analyse how meaning changes when the form of the text changes. They will be able to analyse and interpret the views and values of a text in terms of the ideas, conventions and beliefs that the text appears to explore, endorse, challenge or leave unquestioned. Students will be able to evaluate alternative views of a text and make comparisons with their own interpretation.

ICT: Students will use computers to write essays and for research.

The VCAA handbook sets out the following compulsory areas of study.

UNIT 3 OUTCOMES

1. Adaptations and transformation
2. Creative responses to texts

UNIT 4 OUTCOMES

1. Literary perspectives

2. Close analysis

EXCURSIONS: It may be appropriate to visit a live production of a play.

EXPENSES: Purchase of texts as required

HOMEWORK: 5 hours per week of reading and re-reading texts, preparation and completion of class work, regular revision of notes.

FURTHER MATHEMATICS

UNITS 3 & 4

OVERVIEW: A general course of mathematics which is a recognised Level 3 and 4 Mathematics subject as well as a prerequisite subject to certain University Entrance requirements. Further Mathematics consists of a Core area of study to be completed in Unit 3 and an Applications area of study to be completed in Unit 4. Further Mathematics must be taken as a complete Unit 3/4 sequence.

CAREERS AND PATHWAYS: This subject is recommended for students wishing to pursue a career in Psychology, Business Management or those wishing to study the mathematics used in everyday life. Further Maths Unit 3&4 in Yr 12 can contribute towards the calculation of an ATAR score for further study.

NATURE OF WORK AND ASSESSMENT: The student's level of achievement for Units 3 and 4 will be determined by school-assessed course work and two end-of-year examinations. School assessed coursework for Unit 3 will contribute 20 per cent and Unit 4 will contribute 14 per cent to the final assessment. Unit 3 and 4 end-of-year examinations will contribute 66 per cent to the final assessment.

School assessed coursework will consist of:

Unit 3 Application Task **40** marks towards SAC
 Analysis Task **20** marks towards SAC

Unit 4 Analysis Task 20 marks towards SAC
 Analysis Task 2 20 marks towards SAC

Each analysis task will focus on a separate applications module and will consist of: an assignment
Or a short and focused investigation
Or a set of application questions
Or item response analysis of multiple choice questions.

The VC A A website sets out the following areas of study in detail:

COURSE OUTLINE:

Unit 3 and 4

Core Unit: Data Analysis and Recursion and Financial Modelling.

Applications: Two of the following four modules to be studied:

 Matrices
 Networks and Decision Mathematics
 Geometry and Measurement Graphs
 and Relations

OTHER COURSE REQUIREMENTS: Students studying this subject are required to purchase a CAS graphics calculator from the school and a text book.

HOMEWORK/PRIVATE STUDY: 2-3 hours per week of homework and private study is required.

MATHEMATICAL METHODS UNITS 3 AND 4

OVERVIEW: Mathematical Methods Units 3 and 4 is designed for employment and for entrance to University courses where Mathematics is a pre-requisite. Mathematical Methods is considered the mainstream Unit 3 and 4 Mathematics subject. It is a fully prescribed course. The students have access to the use of Computer Algebra Systems (CAS) calculator to solve complex problems.

CAREERS AND PATHWAYS: It is one of the two mathematical subjects required for specialised courses such as Engineering, Medicine, some Sciences and Economics at University.

NATURE OF WORK AND ASSESSMENT:

Unit 3 and 4

Functions and Graphs

Calculus - differentiation and integration

Algebra - polynomials; exponentials and logarithms; trigonometry

Probability

ASSESSMENT:

The student's level of achievement for Units 3 and 4 will be determined by school assessed course work and two end-of-year examinations. School assessed coursework for Unit 3 will contribute 17 per cent and Unit 4 will contribute 17 per cent to the final assessment. Unit 3 and 4 end-of-year examinations will contribute 66 per cent to the final assessment.

Unit 3

The school assessed coursework in this unit will consist of an Application task.

This will be a function and calculus based mathematical investigation of a practical or theoretical context.

The application task will be of 4 to 6 hours duration over a period of 1 to 2 weeks.

Unit 4

The school assessed coursework in this unit will consist of 2 modelling or problem solving tasks. One of these modelling or problem solving tasks must be related to the Probability and Statistics area of study.

The modelling or problem solving tasks are each to be of 2 to 3 hours duration over a period of one week.

OTHER COURSE REQUIREMENTS: Students studying this subject are required to purchase a CAS graphics calculator (Casio Class Pad) from the school and a text book.

HOMEWORK/PRIVATE STUDY: At least 3 hours per week of homework and private study is required.

Where do these subjects lead to?

Unit 3 & 4 Further Mathematics: Used for employment and general tertiary entrance.

Unit 3 & 4 Mathematical Methods: Used for employment, and tertiary courses such as Mathematics, Science, Medicine, Economics.

Types of unit choices made at Rutherglen are:

Year 11	Leads to	Year 12
VCAL Numeracy		VCAL Numeracy
General Mathematics 1 & 2 Mathematical Methods 1&2	----- ► ^----- ►	Further Mathematics 3 & 4 or Mathematical Methods 3 & 4

We advise students to discuss their course selections for mathematics with their subject teachers.

HOMEWORK: Completion of homework is of great importance in mathematics. It will be expected that all students spend sufficient time out of class on a regular basis completing exercises and assignments, and revising their work. This should average out at between two and three hours per week. Students are also expected to see teachers in their private study.

MUSIC PERFORMANCE

UNITS 3 & 4

OVERVIEW: This subject provides students with the opportunity to further their knowledge and skills in the areas of preparing and presenting music performances. Theory and aural skills are also developed further.

CAREERS: This subject is recommended for students who have a desire to enter TAFE or University Music courses. It also provides an opportunity to develop the knowledge and skills needed to work as a professional musician.

NATURE OF WORK: Throughout the year, students will prepare a program of musical works for an external, end-of-year performance examination as a soloist OR a member of a group. Regular in-class performances are expected. They develop instrumental techniques that enable them to interpret the works and expressively shape their performances. They also develop an understanding of performance conventions they can use to enhance their performances. Students develop skills in aural perception and comprehension, transcription, music theory and analysis.

ICT: Students will make use of ICT to present work and record performances. Websites activities are also used frequently for developing aural skills. Students will use the Internet for research and print music sourcing.

The VCAA handbook sets out the following compulsory areas of study.

OUTCOMES: UNIT 3 and 4

1. **Performance:** On completion of this unit the student should be able to prepare and perform a program of group and solo works, and demonstrate a diverse range of techniques and expressive qualities and an understanding of a wide range of music styles and performance conventions.
2. **Preparing for Performance:** On completion of this unit the student should be able to demonstrate and discuss techniques relevant to performance of selected works.
3. **Music Language:** On completion of this unit the student should be able to identify, re-create, notate and transcribe short excerpts of music, and discuss the interpretation of expressive elements of music in pre-recorded works.

HOMEWORK: Students are expected to be receiving instrumental or vocal lessons and maintaining a regular routine of effective practice. This, combined with aural training and assignment work will require at least 3-4 hours per week.

PHYSICAL EDUCATION UNITS 3 & 4

OVERVIEW:

VCE Physical Education examines the biomechanical and skill acquisition principles that can be applied when analysing and improving movement skills used in physical activity and sport. It also examines how the major body and energy systems work together to enable movements to occur, and explain fatigue factors and suitable recovery strategies.

CAREER/PATHWAY:

This subject is recommended for students who have the desire to enter TAFE or complete a University course in areas such as Teaching, Coaching, Personal Training, Biomechanics, Sport Science, Physiotherapy, Chiropractic and many other allied health jobs/careers. It is also recommended for those students that have a keen interest in improving their understanding of how their bodies work and perhaps wish to further their own sporting endeavours.

NATURE OF WORK/ASSESSMENT:

Throughout the unit students will be required to contribute to discussions, complete research tasks, textbook activities, note-taking and participate in practical sessions. The level of achievement will be determined by School assessed Coursework and the end of the examination. (50% School assessed Coursework and 50% end of year examination).

ICT: Students can use PE related websites and VCCA to access relevant course material.

UNIT 3 OUTCOMES - MOVEMENT SKILLS AND ENERGY FOR PHYSICAL ACTIVITY Area of study 1 - How

are movements skills improved.

Focusses on the biomechanical and skill acquisition principles that can be applied when analysing and improving movement skills used in physical activity and sport.

Area of study 2 - How does the body produce energy

Explores the various systems and mechanics associated with the production of energy required for human movement.

UNIT 4 OUTCOMES - TRAINING TO IMPROVE PERFORMANCE

Area of study 1 - What are the foundations of an effective training program.

Focusses on the information required to form the foundation of an effective training program.

Area of study 2 - How is training implemented effectively to improve fitness

Focusses on the implementation and evaluation of training principles and methods from a practical and theoretical perspective.

HOMEWORK: Students will be expected to complete at least 3 hours homework each week. This will include reading, revision, completion of class work and some assessment tasks.

PSYCHOLOGY

UNITS 3 & 4

OVERVIEW

Psychology is a broad discipline that incorporates both the scientific study of human behaviour and the systematic application of this knowledge to personal and social circumstances in everyday life. VCE Psychology enables students to explore how people think, feel and behave through a biopsychosocial approach.

CAREERS

The study of Psychology leads to opportunities in a range of careers that involve working with children, adults, families and communities in a variety of settings. These include academic and research institutions, management and human resources, government, corporate and private enterprises. Fields of applied psychology include educational, environment, forensic, health, sport and organizational psychology. Specialist fields of psychology include counseling and clinical contexts, as well as neuropsychology, social psychology and developmental psychology.

NATURE OF WORK

A variety of assessment tasks will be set for Units 3 and 4. These will be selected from the following: a folio of annotated learning activities, a report of a research investigation, data analysis, evaluation of research, visual presentation, media analysis/response, response to questions, a test and a reflective journal. The level of achievement for Units 3 and 4 is determined through school-assessed coursework (40%) and an end-of-year examination (60%).

UNIT 3 OUTCOMES

1. **Nervous System and Psychological Functioning** - Explain how the structure and function of the human nervous system enables a person to interact with the external world and analyse the different ways in which stress can affect nervous system functioning.
2. **Learning and Memory** - Apply biological and psychological explanations for how new information can be learnt and stored in memory, and provide biological, psychological and social explanations of a person's inability to remember information.

UNIT 4 OUTCOMES

1. **Consciousness and Sleep** - Explain consciousness as a continuum, compare theories about the purpose and nature of sleep, and elaborate on the effects of sleep disruption on a person's functioning.
2. **Mental Wellbeing** - Explain the concepts of mental health and mental illness including influences of risk and protective factors, apply a biopsychosocial approach to explain the development and management of specific phobia, and explain the psychological basis of strategies that contribute to mental wellbeing.
3. **Practical Investigation** - Design and undertake a practical investigation related to mental processes and psychological functioning, and present methodologies, findings and conclusions in a scientific poster.

HOMEWORK

This will include 3-4 hours per week of readings, structured questions and revision.

PHYSICS

UNIT 3 & 4

OVERVIEW: Physics is a natural science based on observations, experiments, measurements and mathematical analysis with the purpose of finding quantitative explanations for phenomena occurring from the subatomic scale through to the planets, stellar systems and galaxies in the Universe. While much scientific understanding in physics has stood the test of time, many other areas continue to evolve. In undertaking this study, students develop their understanding of the roles of careful and systematic experimentation and modelling in the development of theories and laws. They undertake practical activities and apply physics principles to explain and quantify both natural and constructed phenomena.

ENTRY: There are no prerequisites for entry to Units 1, 2 and 3. Students must undertake Unit 3 prior to undertaking Unit 4. Students entering Unit 3 without Units 1 and/or 2 may be required to undertake additional preparation as prescribed by their teacher. Units 1 to 4 are designed to a standard equivalent to the final two years of secondary education. All VCE studies are benchmarked against comparable national and international curriculum.

Areas of study:

Unit 3: How do fields explain motion and electricity?

Areas of Study 1 - How do things move without contact? •

- Fields of interaction
- Effects of fields
- Application of field concepts

Area of Study 2 - How are fields used to move electrical energy?

- Generation of electricity
- Transmission of electricity

Area of Study 3 - How fast can things go?

- Newton's laws of motion
- Einstein's theory of special relativity

Unit 4: How can two contradictory models explain both light and matter?

Area of Study 1 - How can waves explain the theory of light?

- Properties of mechanical waves
- Light as a wave

Area of Study 2 - How are light and matter similar?

- Behaviour of matter
- Matter as particles or waves
- Similarities between light and matter

Area of Study 3 - Practical matter

- A student-designed practical investigation related to waves, fields or motion is undertaken either in Unit 3 or Unit 4, or across both Units 3 and 4. The investigation relates to knowledge and skills developed across Unity 3 and 4 and is undertaken by the student through practical work.

ASSESSMENT:

UNIT 3 - School Assessed Coursework 21%

UNIT 4 - School Assessed Coursework 19%

End of Year Exam 60% of final assessment score.

UNITS 3 & 4- SOCIOLOGY

OVERVIEW: VCE Sociology focuses on the study of human behaviour and social interaction to understand how societies are organized, develop and change. In Unit 3 students explore expressions of culture and ethnicity within Australian society in two different contexts - Australian Indigenous culture and ethnicity in relation to migrant groups. Culture and ethnicity refer to groups connected by shared customs, culture or heritage. Students learn how these classifications can define inequality and opportunity, shape cultural activities and provide a sense of purpose, in Unit 4 students explore the ways sociologists have thought about the idea of community and how the various forms of community are experienced. They examine the changing definitions and experiences of community and the challenges posed by political, social, economic and technological change. The relationship between social movements and social change is examined. This study broadens students' insights into key sociological frameworks and social institutions, enabling them to pursue further formal study at a tertiary level or in vocational education and training settings.

CAREER PATHWAYS: The study of Sociology leads to opportunities in a range of careers that involve working with children, adults, families and communities in a variety of settings. These include academic and research institutions, management and human resources, in government, corporate and private enterprises. VCE Sociology can lead to tertiary pathways related to work with social groups and social processes, such as in culture resource management and community development, or work with minority and ethnic groups. It can lead to work in fields that address issues such as crime and substance abuse, youth and family matters, industrial relations, social justice and social issues related to health care.

AREA OF STUDY 1- Unit 3

Outcome 1: Australian Indigenous culture

On completion of this unit students should be able to analyse and evaluate changes in public awareness and views of Australian Indigenous Culture.

Outcome 2: Ethnicity

On completion of this unit students should be able to identify and analyse experiences of ethnicity within Australian Society.

AREA OF STUDY 2- Unit 4

Outcome 1: Community

On completion of this unit the student should be able to analyse the experience of community generally and analyse and evaluate a specific community.

Outcome 2: Social movements and social change

On completion of this unit the student should be able to analyse the nature and purpose of social movements and evaluate their influence on social change.

The four assessment tasks taken over Units 3 and 4 prepare students for the end of year exam which consists of extended response questions and Course work which accounts for 50% of the study score.

Homework: Students are required to complete 2-3 hours of homework/study per week.

VISUAL COMMUNICATION AND DESIGN

UNITS 3 & 4

OVERVIEW: This subject provides students with the opportunity to produce sophisticated design solutions, drawing on the skills developed in Unit 1 & 2. The fields of architecture, advertising and

marketing, multimedia, engineering, fashion, product design are presented to the students as a focus for creative visual design. Drawing, photography, market research, designing, computer graphics skills are show-cased in their final folios.

CAREERS: This subject is recommended for students who have a desire to enter TAFE or University design courses such as Graphic Design, Architecture, Landscape Design, Photography, Advertising, Event Promotion, Fashion, Furniture, Cartography, Engineering and Design.

NATURE OF WORK: The course requires students to spend the majority of their time working through the design process to generate final Design solutions. All the experimenting and decision making that goes into the final work needs to be shown and annotated in a support folio. The majority of work is practical in nature and uses hand drawing skills along with computer generated work. The work is presented as final solutions. Research and study of the design industry and design products requires students to prepare written responses. This subject compliments work done in Art.

ICT: Photoshop®, InDesign® and Google Sketch-up® are the main programs that students will learn and use in the generation of their images. Digital photography, scanning, Web research are essential components of generating imagery and visual solutions.

UNIT 3: - Visual Communication design Practices.

OUTCOMES:

1. Create visual communications for specific contexts, purposes and audiences that are informed by their analysis of existing visual communications, in three design fields.
2. Discuss the practices of a contemporary designer from each of the design fields and explain factors that influence these practices.
3. Apply design thinking skills in preparing a brief, with two communication needs for a client, undertaking research and generating a range of ideas relevant to the brief.

UNIT 4 - Visual Communication design development, evaluation and presentation.

OUTCOMES:

1. Develop distinctly different concepts for each communication need and devise a pitch to present concepts to an audience, evaluating the extent to which these concepts meet the requirements of the brief.
2. Produce final visual communication presentation for each communication need that satisfies the requirements of the brief.

SAC unit 3 outcome 1 and 2 [20%] unit 4 outcome 3 [5%] total **25%**

SAT unit 3 outcome 3 / unit 4 outcome 1 & 2 **40%**

End of year Exam /A hours, both theory and practical activities **35%**

EXCURSIONS: Students will travel to Melbourne for the 'Top Designs' exhibition [a showcase of last years top VCD students' work] as well as visiting some other galleries.

HOMEWORK: 3-4 hours per week of research, drawing and working on design options and solutions. The Graphics room and computers are available after school for additional studio time.

VICAL

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VET

VCAL LITERACY

OVERVIEW: The purpose of this unit is to enable students to develop skills and knowledge to read and write simple or short texts. Texts deal mainly with personal and familiar topics but may include some unfamiliar aspects. At this level students use the writing process with an awareness of the purpose and audience of the text. In reading students are able to identify the main point of the text, some key details and express an opinion about the text.

LEARNING OUTCOMES:

Writing:

1. Writing for Self Expression
2. Writing for Practical Purposes
3. Writing for Knowledge
4. Writing for Public Debate

Reading:

1. Reading for Self Expression
2. Reading for Practical Purposes
3. Reading for Knowledge
4. Reading for Public Debate

Oral Communication:

1. Oral Communication for Practical Purposes
2. Oral Communication for Knowledge
3. Oral Communication for Exploring Issues

ASSESSMENT:

Assessment for tasks are criteria based. The learning outcome is achieved when students demonstrate competence at a level appropriate to their VCAL level. Assessment methods used may include written text, teacher observation and oral response.

HOMEWORK AND PRIVATE STUDY

2-3 hours per week of homework, completing set work and study for tests is required. In particular students are expected to catch up on set work missed due to work placements.

VCAL NUMERACY FOUNDATION

OVERVIEW: VCAL Numeracy studies are designed to develop the everyday numeracy skills needed to function in society. In particular design, measurement using graphical information, money, time and travel.

CAREERS AND PATHWAYS: The curriculum is based on developing the student's skills to facilitate the practical application of maths at home, work and in the community. It is aimed particularly (but not exclusively) for students seeking employment through apprenticeships. It is **not** suitable as a mathematics subject for use as an ATAR score for entrance to University.

NATURE OF WORK

The following areas of study are conducted across the whole year.

Numeracy for Practical Purposes - Design
Numeracy for Practical Purposes - Measurement
Numeracy for Personal Organisation - Money and Time
Numeracy for Personal Organisation - Location
Numeracy for Interpreting Society - Data
Numeracy for Interpreting Society - Numerical Information.

ASSESSMENT

Assessment is undertaken as an ongoing process that integrates the student's knowledge and skills with their practical application over a period of time. Evidence is collected through teacher observations, the written records of students work, topic tests and through the collection of assignments, posters, diagrams and models created by students.

ICT: Use of computers to conduct research, Excel Spreadsheet and Word.

OTHER COURSE REQUIREMENTS:

Students are required to have a general scientific calculator. They are **not** required to have the CASIO Class Pad graphics calculator.

HOMEWORK AND PRIVATE STUDY:

2-3 hours per week of homework, completing set work and study for tests is required. In particular students are expected to catch up on set work missed due to work placements.

VCAL NUMERACY INTERMEDIATE

OVERVIEW: VCAL Numeracy studies are designed to develop the everyday numeracy skills needed to function in society. In particular design, measurement using graphical information, money, time and travel.

CAREERS AND PATHWAYS: The curriculum is based on developing the student's skills to facilitate the practical application of maths at home, work and in the community. It is aimed particularly (but not exclusively) for students seeking employment through apprenticeships. It is **not** suitable as a mathematics subject for use as an ATAR score for entrance to University.

NATURE OF WORK AND ASSESSMENT:

The following areas of study are conducted across the whole year.

Numeracy for Practical Purposes - Design
Numeracy for Practical Purposes - Measurement
Numeracy for Personal Organisation - Money and Time
Numeracy for Personal Organisation - Location
Numeracy for Interpreting Society - Data
Numeracy for Interpreting Society - Numerical Information.
Numeracy for Knowledge - Formulae Numeracy
for Knowledge - Problem Solving

Assessment is undertaken as an ongoing process which integrates the student's knowledge and skills with their practical application over a period of time. Evidence is collected through teacher observations, the written records of students work, topic tests and through the collection of assignments, posters, diagrams and models created by students.

ICT: Use of computers to conduct research, Excel Spreadsheet and Word.

OTHER COURSE REQUIREMENTS: Students are required to have a general scientific calculator. They are **not** required to have the CASIO Class Pad graphics calculator.

HOMEWORK AND PRIVATE STUDY: 2-3 hours per week of homework, completing set work and study for tests is required. In particular students are expected to catch up on set work missed due to work placements.

VCAL PERSONAL DEVELOPMENT SKILLS

OVERVIEW:

VCAL Personal Development Skills units are focussed on the development of self through the development of personal organisation and planning skills, knowledge, practical skills, problem solving and interpersonal skills through participation in experiences of a practical nature.

CAREERS AND PATHWAYS:

The curriculum is based on developing the student's skills applicable to relevant social, personal, health and well being, education and team work goals. It is not a suitable use as an ATAR subject to score for entrance to University.

NATURE OF WORK AND ASSESSMENT:

Students participate in learning experiences to develop skills in the areas of;

- The development of self
- Social responsibility
- Building community
- Civic and Civil responsibility
- Improved self confidence and self esteem

ASSESSMENT:

The award of satisfactory achievement for a unit is based on evidence that the student has demonstrated achievement of the learning outcomes specified for the unit. A range of assessment methods can be used and they can include a portfolio of student work, check list, evidence of participation in project, award or oral reports.

HOMEWORK/PRIVATE STUDY:

2-3 hours per week completing set work, practical projects and written components is required. In particular students are expected to catch up on set work missed due to work placements.

V.C.A.L. WORK RELATED SKILLS INTERMEDIATE UNIT 1

Nominal duration 100 hours

Unit purpose

The purpose of this unit is to provide a focus for more complex development of appropriate skills and knowledge in order to provide the necessary OH&S preparation for the workplace.

Learning outcomes

Students must show competence in all six learning outcomes.

Context of the learning outcomes

At Intermediate level, a work related goal involves work undertaken at Certificate I/II level conducted under supervision and reasonably autonomous in regard to planning and work activities. In this unit there is a strong focus on the development of knowledge regarding OH&S in the workplace.

Learning outcomes:

1. Learn about basic conditions and entitlements of a specific industry.
2. Obtain and communicate information in response to a work related OH&S issue.
3. Develop knowledge and understanding of OH&S in a work related context.
4. Identify problems or safety hazards that can affect the safety of the work environment.
5. Contribute to team objectives to achieve safe work procedures.
6. Use information and communications technology in relation to a work related activity.

V.C.A.L WORK RELATED SKILLS INTERMEDIATE UNIT 2 Nominal duration 100 hours Unit purpose

This unit provides a focus for more complex development of work related and pre-vocational skills in a context appropriate to the task through:

- integrating more complex learning about work related skills with prior knowledge and experiences
- enhancing the development of employability skills at a more complex level in relevant work-related contexts
- developing more complex critical thinking skills that can be applied to work related problem solving situations
- developing more complex work related planning and organisational skills that incorporate evaluation and review
- developing more complex work related skills, which can be transferred to other work contexts.

Learning outcomes:

1. Learn to analyse and organise information for a work related goal.
2. Communicate information and ideas for a work related goal.
3. Plan, organise and manage activities for a work related goal.
4. Identify and solve problems for a work related purpose.
5. Work with others and in teams to achieve a work related goal.
6. Use information and communications technology in relation to a work related activity.

Much of the course is based around real world work experiences. Therefore it is very difficult to meet course requirements unless you have Work Placements organised for the year. This will also assist in meeting the Industry Specific Strand of V.C.A.L.

In Year 12, most students achieve VCAL Work Related Skills at the Intermediate Level.

Students who are highly motivated and are capable of independent and high quality work have the option of striving to attain the Senior Level. Students considering Senior Level should consult with Mr Rogers at the time of subject selection or as soon as possible.

V.E.T. CERTIFICATE II IN BUSINESS

Students undertaking VCAL at Year 11 are generally enrolled in a VET Certificate II course in Business.

The course is delivered at the school using Aspire Workbooks (provided by school upon enrolment) and a combination of school based and workplace based practical activities. The arrangement used in

2011/12 is shown below but it is subject to negotiation each year with the Registered Training Organisation (RTO) which in recent years has been The Centre in Wangaratta.

This table outlines the 12 modules, the mode of delivery of each module and the nominal hours for each module.

Code	Unit	Nominal Hours
	<i>Modules completed primarily based on Aspire Workbooks</i>	
BSBWHS201A	Contribute to the Health and safety of self and others	20
BSBINM201A	Process and Maintain Workplace Information	30
BSBCMM201A	Communicate in the Workplace	40
	<i>Modules completed using Aspire Workbooks and practical work at school</i>	
BSBITU203A	Communicate Electronically	20
BSBINM202A	Handle Mail	15
	<i>Modules completed primarily in a practical manner at school</i>	
BSBITU201A	Produce Simple Word Processed Documents	60
BSBITU202A	Create and use Spreadsheets	30
BSBWOR204A	Use Business Technology	20
	<i>Modules completed primarily in a practical manner at work placements</i>	
BSBCUS201A	Deliver a Service to Customers	40
BSBWOR203A	Work effectively with others	15
BSBWOR202A	Organise and Complete Daily Work	20
BSBIND201A	Work Effectively in a Business Environment	30

Students demonstrating competency in all 12 modules gain a nationally recognised VET certificate.

In addition they satisfy the Work Related Skills strand, and if they have completed work placements, they can also meet the Industry Specific strand of VCAL.

Much of the course is based around real world work experiences. Therefore it is very difficult to meet course requirements unless you have Work Placements organised for the year. This will also assist in meeting the Industry Specific Strand of V.C.A.L.

CERTIFICATE II VET. ENGINEERING.

UNIT 1, 2, 3 & 4 VCE

OVERVIEW. Student's completing this course will gain a certificate 2 in engineering. This program is at a specified level within the Australian Qualifications Framework. It is recognized by the State Training board. Students must complete the year 10 metal work program before being selected by interview to continue engineering in year 11 and 12.

Students undertaking this subject in Year 12 will sit the VET exam which will give them a VCE study score for the subject.

NATURE OF THE WORK: Students will complete the set TAFE modules that cover the theory aspect of cert.2 engineering as well as developing practical skills. Students will learn basic operating procedures for the metal lathe centre drill, the geared head mil drill and the turret head milling machine. The use of measuring instruments such as Vernier callipers and micrometers will be learnt

as students will generally work to measurement tolerances of 0.1 of a millimetre on finished tasks.

Set out in the table is the program students must complete to gain the Cert II in Engineering.

Year level	Course	TAFE Unit	
10	Metal (2 semesters)	MEM13014A MEM 18.1 MEM 18.2	Apply principles of OH&S in a work environment Use hand tools Use power tools
	Work Education	VU20909	Develop and individual career plan
	I.T. (1 semester)	MEM16006A	Organise and communicate information
11 & 12	VET Engineering at RHS	VU20911 MSAENV272B MEM12024A MEM16006A VU20910 MSS402040A VU20903 VU20912 VU20913	Handle engineering materials Participate in environmentally sustainable work practices Perform computations Organise and communicate information Produce basic engineering sketches and drawings Apply 5S procedures Produce basic engineering components and products using fabrication and machining (elective) Perform basic machining processes Apply basic fabrication techniques

UOC'S: (unit of competency) will be assessed by GOTAFE instructors and the VET Engineering classroom teacher.

VCE VET Hospitality CERTIFICATE III Catering Operations

Year 11

OVERVIEW: This subject provides students with the opportunity to gain their Certificate II in Hospitality in partnership with GOTAFE Wangaratta. The students will learn and develop skills in the areas of:

CODE	UNITS OF COMPETENCE
BSBWOR203	Work effectively with others
SITHCCC002	Prepare and Present simple dishes
SITHIND002	Source and use information on the Hospitality Industry
SITXFSA001	Use hygienic practices for food safety
SITXINV002	Maintain the quality of perishable items
SITXWHS001	Participate in safe work practices
BSBSUS201	Participate in environmentally sustainable work practices
SITHIND003	Use hospitality skills effectively
SITXCCS003	Interact with customers
SITXCOM002	Show social and cultural sensitivity
SITHCCC003	Prepare and Present sandwiches
SITHFAB002	Provide Responsible service of alcohol

CAREERS/PATHWAYS: This subject is recommended for students who have a desire to enter into apprenticeships, TAFE or a part time job as a food and beverage attendant, bar/bottle shop attendant,

front office/receptionist, catering assistant, kitchen hand, cook's assistant or short order cook. Also very applicable to students who have a passion to work with food.

NATURE OF WORK AND ASSESSMENT: Students must complete 80 hours of structured work placement in the Hospitality area. Students must contribute to a minimum of 3 functions performed by the school's restaurant "The Vine" (they will contribute to the required 80 hours) Assessment tasks are in the form of written tasks, poster, PowerPoint presentation and a Portfolio with 6 major outcomes.

ICT: In this subject ICT is used for research and for presentation of written work including PowerPoint presentation. It is also through Didasko (TAE program) to complete worksheets and Tests

WHAT CREDIT WILL I RECEIVE TOWARDS MY VCE OR

VCAL VCE

You will be eligible for a credit of up to five VCE VET units towards your VCE: up to three units at Units 1 and 2 levels and a Units 3 and 4 sequences for each qualification in this program.

A Study Score is available for each Units 3 and 4, which can contribute directly to your ATAR - either as one of your best four studies ('the primary four') or as your fifth or sixth study.

VCAL

The VCE VET Hospitality program (either partial or full completion) may contribute at the Foundation, Intermediate or Senior levels.

EXCURSIONS/OTHER COURSE REQUIREMENTS:

Students will 'Fine Dine' at the Commercial Club.

The cost of food used during these units is to be met by the student through subject levies.

Students will be required to access modules online using Didasko (TAFE program).

HOMEWORK: Work placement of 80 hours and work that has not been completed in class eg: written assessment, reading and research.

VCE VET HOSPITALITY CERTIFICATE III Catering Operations YEAR 12

OVERVIEW: This subject provides students with the opportunity to gain their Certificate III in Catering Operations in partnership with GOTAFE Wangaratta. The students will learn and develop skills in the areas of:

CODE	UNITS OF COMPETENCE
SITHFAB004	Prepare and serve no-alcoholic beverages
SITHFAB005	Prepare and serve espresso coffee
SITHFAB007	Serve food and beverage
SITHFAB016	Provide advice on food
SITXFIN001	Process financial transaction

CAREERS/PATHWAYS: This subject is recommended for students who have a desire to enter into apprenticeships, TAFE or a part time job as a food and beverage attendant, bar/bottle shop attendant, front office/receptionist, catering assistant, kitchen hand, cook's assistant or short order cook. It is also very applicable to students who have a passion to work with food.

NATURE OF WORK AND ASSESSMENT: Students must complete 120 hours of structured work placement in the Hospitality industry. Students must contribute to a minimum of 3 functions performed by the school's restaurant "The Vine" (they will contribute to the required 120 hours) Assessment tasks are in the form of written tasks, poster, PowerPoint presentation and a Portfolio with 6 major outcomes.

ICT: In this subject ICT is used for research and for presentation of written work including PowerPoint presentation. It is also used through Didasko (TAFE program) to complete worksheets and Tests.

WHAT CREDIT WILL I RECEIVE TOWARDS MY VCE OR VCAL:

VCE:

You will be eligible for a credit of up to five VCE VET units towards your VCE: up to three units at Units 1 and 2 levels and a Units 3 and 4 sequences for each qualification in this program.

A Study Score is available for each Units 3 and 4, which can contribute directly to your ATAR - either as one of your best four studies ('the primary four') or as your fifth or sixth study.

VCAL:

The VCE VET Hospitality program (either partial or full completion) may contribute at the Foundation, Intermediate or Senior levels.

EXCURSIONS/OTHER COURSE REQUIREMENTS:

Students will 'Fine Dine' at the Commercial Club

The cost of food used during these units is to be met by the student through subject levies. Students will be required to access modules online using Didasko (TAFE program).

HOMEWORK: Work placement of 120 hours and work that has not been completed in class eg: written assessment, reading and research.