

Year 9 Course Selections 2020



Introduction

The curriculum at Bendigo South East College follows the Victorian Curriculum F – 10. This curriculum, developed by the Victorian Curriculum and Assessment Authority (VCAA), “is the common set of knowledge and skills required by students for life-long learning, social development and active and informed citizenship.” The Victorian Curriculum F – 10 also incorporates the Australian curriculum, whilst reflecting the key priority areas and standards for Victorian students.

Bendigo South East College also offers a small range of Victorian Certificate of Education (VCE) and Vocational Educational Training (VET) based subject offerings for Year 10 students. Teachers follow the subject specific study design published by the VCAA to construct learning centred upon the set knowledge and skills described. VET subjects knowledge and skills is derived from following the relevant industry-based training package regulated by the Australian Skills Quality Authority (ASQA).

As students move into Years 7 and 8, Bendigo South East College curriculum and subject offerings have a focus on students experiencing a broad range of subject areas and building key knowledge and skills across these offerings. Within Year 9 and 10 students are provided with increasing opportunities to exercise choice. We encourage students to consider their Year 10 program as a strong grounding for their last two years of senior secondary education.

Subject Availability

While subjects are offered within this Course Selection Guide, BSE will, once students undertake their subject selections, make decisions about running subjects based on the demand and resources for each subject. Subjects selected by a small number of students may be withdrawn. When a subject is withdrawn, students will be notified and back-up subject choices will be used and/or further course counselling will be undertaken.

Learning and Student Attendance

Bendigo South East College expects students to maintain a strong attendance record. There is significant research that indicates students who miss 5 – 10% of days in any given year will have significantly lower levels of performance in Literacy and Numeracy. In future years the gaps in knowledge and skills are rarely made up. Strong attendance provides continuity in student’s learning.

Bendigo South East College will work with parents to provide support for a continuation of essential student learning if a student has some short-term absence (up to approximately 2-3 weeks) as a result of illness or injury. For absences that extend beyond this period, student needs are considered on a case-by-case basis, but parents need to be aware that the school is not equipped, nor able to support an “at-home” learning program for students for any great length of time. The school does not provide an individual learning program as part of the student’s absence due to holiday during the term.

Subject Fees

The subjects fees shown in this booklet are indicative only and are reviewed by College Council as part of the annual ratification process. The final list of fees/charges will be included in the 2020 book lists which are distributed later in the year.

Selecting Your Year 9 Program

A Year 9 program at Bendigo South East College seeks to provide subject options that continue to build essential learning skills across a broad range of subject areas. This Course Selection Booklet provides updated information to assist students to make subject choices for 2020; and as such is a live document, which may be subject to change.

Subject Selection

Students are expected to draw upon a variety of resources and people that can assist them to select their subjects and learning program. To be clear of the subject content and expectations, it is essential that students and parents carefully read the description of any subject in which a student has an interest. Subject descriptions start on Page 4 of this booklet. Fees indicated for subjects are indicative only. They are yet to be ratified by the BSE School Council and will be confirmed in the 2020 booklists.

Year 9 Subject Offerings

CORE SUBJECTS				
English	Health and PE	Humanities	Mathematics	Science
	Health and Physical Education, which may include one semester of either: <ul style="list-style-type: none"> Football Codes Skills for Life 			

ELECTIVE SUBJECT CHOICES			
The Arts	Languages	Technology	Multidisciplinary Subjects
Academy of Creative Arts	Chinese	Automotive	Human Powered Vehicles
Digital Photography	German	Digital Technology	STEM
Dance	Indonesian	Electronics	
Drama		Food Studies	
Music		Metalwork	
Media Studies		Robotics	
Multimedia		Textiles	
Production		Woodwork	
Sculpture			
Visual Arts			
Visual Communication and Design			

Requirements of a Year 9 Program

In Year 9 the students undertake the following program made up of both compulsory and elective subject options. Students must undertake two semesters of English, Mathematics, Health and PE (either core or ADP), Science and Humanities.

Students may then undertake four single semester electives of their own choice drawn from the Arts, Technology, Languages and Multidisciplinary learning areas, except in the following situations:

- Students studying ACA must select it in two elective 'slots' (as the subject is a full year course)
- Students studying Music must select it in two elective 'slots' (as the subject is a full year course)
- Students studying a Language must select it in two elective 'slots' (as the subject is a full year course)

Students also have the option to choose **one** elective H&PE subject for one semester only. Costs, as a subject fee, will apply. The subjects that students may elect:

- Football Codes
- Life Skills - Self Defence

*English as an Additional Language (EAL) is an English subject available to students who are new English language learners. This subject is aimed at providing new English learners with the basic English and skills required to socialise in Australia. Typically, these students have not learnt English as their primary language throughout their previous schooling. For further information, contact Mr Wade McMillan, the College's EAL and Inclusion coordinator.

The Arts Learning Area Subjects

Academy of Creative Arts (ACA)

Subject Length: 2 semesters

Subject Fee: \$600 (TBC)

If you are interested in furthering your development in the field of Dance, Drama, Visual Arts or Vocals, this subject is for you! The Academy of Creative Arts (ACA) program offers aspiring artists the opportunity to develop their own goals to work towards in their chosen field. The program also invites practicing artists to run Masterclasses for students. These Masterclasses occur before and after school each week.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Artist biographies
- Artist Statements
- Concepts
- Folios

What type of work is done?

Within this subject student learning is developed and assessed through:

- Theme development
- Creating works
- Presenting works
- Critiques

Additional Information

This is a SELECT ENTRY program. Entry into the program undertaken through a separate ACA application and audition/interview. In timetabled classes, students will be engaging in a coaching environment to work independently or in collaboration with their peers to generate and present works in their chosen field.

Dance

Subject Length: Semester 1 only

Subject Fee: \$40

Do you have a story to tell? A great story can change the way people think about the world around them. Wakakirri is a Story Dance Festival where schools aim to do just that. Students create a 3-7 minute performance by a group of students that theatrically tells a story using a combination of dancing, acting and creative movement to pre-recorded music. Schools can tell any story and use any combination of dance, creative movement, acting, music, props, costumes, sets, and in some cases; film, projections and singing.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Exploration into aspects of choreography to create a performance piece.
- How to create a performance for specific target audience.
- How to lead and teach ensemble choreography
- How to successfully communicate with different audiences through the use of dance and movement.
- Develop a variety of ideas, designs and concepts for a theme.
- Investigate themes and issues that could be communicated through dance and movement.
- Use convincingly integrate costumes, makeup, sound and lighting design into a performance piece.
- Design and create sets, props, makeup and costume designs.

What type of work is done?

Within this subject student learning is developed and assessed through:

- Student workbook of ideas, stagecraft and self-reflection
- Annotation of design concepts and ideas
- Rehearsal, development and refinement of dance technique
- Performance at Ulumbarra Theatre in a National Competition event.
- Exam

Additional Information

Students are required to attend all Wakakirri performances and competition events (www.wakakirri.com).

Drama

Subject Length: 1 Semester

Subject Fee: \$35

If you would like to develop your self-confidence through games and performances (both scripted and self-devised), then Drama is for you! In this class, you will have the opportunity to build your skills and knowledge about acting in the theatre by playing games, learning about a range of theatre practitioners and developing performances to present to your peers.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Improvisation
- Character Development
- Script analysis
- Naturalism and Non-Naturalism
- Ensemble building

What type of work is done?

Within this subject student learning is developed and assessed through:

- Play
- Note taking
- Script Writing
- Live Performances
- Peer reviews

Additional Information

Students will create original performances based on different stimuli.

Digital Photography

Subject Length: 1 Semester

Subject Fee: \$40

Photography is a subject that encourages and challenges students to interpret and view the world in which we live, in different ways. Students develop their photography skills and knowledge through practical and theory based workshop activities, focusing on photographic techniques and processes, theoretical and technical skills of a DSLR camera as well as the manipulation of imagery using Adobe Photoshop and mixed media practices. Students also have opportunities to showcase their creative abilities and build upon their literacy skills through the development of a folio and written annotations.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

History and evolution of the camera

- Technical and theoretical aspects of digital SLR camera
- Technical and theoretical aspects of industry-standard editing software
- Analysing photographic works using the Analytical Frameworks
- Development of a folio
- Development of technical skills through the Art Elements and Principles
- Mixed media experimentation, incorporating photography

What type of work is done?

Within this subject student learning is developed and assessed through:

Workshop notes

- Development of a Folio
- Produce and experiment with photographic works
- Written and visual analysis activities
- Annotations of photographic works
- End of semester exam

Additional Information

- Opportunities for students to use their interests/passions to further explore applications and show individual understanding
- Opportunities for students to develop their knowledge and skills on the program Photoshop to further experiment and manipulate photographs
- Year 9 Digital Photography can lead into year 11 and 12 VCE Studio Arts and VCAL Arts where students can choose to specialise in Digital Photography

Media Studies

Subject Length: 1 semester

Subject Fee: No fee

In Year 9 Media, students will learn skills and techniques of film-making through theoretical and practical tasks. These include cinematography, acting, sound, lighting, costume, mis-en-scene and editing. Students will also choose a film to study relating to a particular genre and analyse how these Production Elements are used. They will then use skills and understanding learned to create their own film based on their chosen genre.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Production Elements of Film
- Film Analysis
- Design Process
- Film Production

What type of work is done?

Within this subject student learning is developed and assessed through:

- Theory tasks and practical workshops relating to the Production Elements.
- Analytical perspectives of cinema to understand codes and conventions of genre.
- Design Process; Pre-Production work to create a narrative and guidelines to create a short film.
- Film Production; Using knowledge gained from the production elements and following their design process, students will create a short film.
- Documented Production Journal

Multimedia

Subject Length: 1 semester

Subject Fee: No fee

This subject would suit you if you are interested in computers - you will look at animation, film, digital art, and minor elements of coding.

Content:

Multimedia is a wide ranging subject that covers a huge range of digital applications, including but not limited to; digital art and design, animation, film, 3D modelling, website design, game development, app development and coding. Students learn about the processes involved in designing, developing and creating digital media for a range of audiences and needs.

Assessment:

Students engage in short directed tasks to demonstrate and develop skills in a range of software packages and techniques. Students are given the opportunity to work collaboratively on some task. This subject culminates in a self directed major project using their chosen software. During the major project students will need to manage their time and self monitor their learning whilst seeking feedback and assistance from the teacher throughout the project.

Music

Subject Length: 2 semesters

Subject Fee: Check applicable fees in Music Enrolment Form

This subject suits students who enjoy singing or playing an instrument and want to experience working in bands and ensembles. Each class involves playing music and working towards performances. Learning music has recently been discovered to have huge benefits for brain development. It is also a brilliant way to learn more about working with other people to create something amazing!

Lessons and instrument hire are available. More information can be found here:

<https://www.bse.vic.edu.au/music-program/>

If you have questions about ability level or instruments available please talk with Mr. Briggs or Music staff.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Building awareness of music style
- Developing group performance and presentation skills
- Developing teamwork and rehearsal skills
- Building greater musical skills
- Weekly instrumental lessons
- Use of composition software
- Theory and knowledge of musical terminology
- Practical skills in sound and audio production
- Creative skills in improvising, composition and interpreting music

What type of work is done?

Within this subject student learning is developed and assessed through:

- Creative tasks and assignments.
- Performance review and reflection
- External feedback from guest artists
- Use of digital applications
- Practical instrumental and theory exam

Production

Subject Length: Semester 2 only

Subject Fee: \$60

Production is a highlight of the secondary school calendar. BSE has a reputation of producing high-quality performances every year. The production is for students who are ready to take up new opportunities and for those who already have lots of experience. There is an important role for everyone.

What is studied?

- Students learn music, script and movement from a professional stage show
- Students have the opportunity to learn how lighting, sound, movement, music, dance, costumes and makeup work together to communicate to an audience.
- Students learn the value of critical feedback through creative expression
- students develop their cognitive abilities and build confidence
- Students develop creative thinking
- growth in independence and interdependence
- students develop their communication skills
- students develop their critical thinking

What type of work is done?

Within this subject student learning is developed and assessed through:

- Voice and movement work
- Character analysis - analysing and perfecting character
- Participation in the rehearsal process - working in a collaborative setting
- Students have the opportunity to perform in a professional theatre environment

Additional Information

On selecting this subject, students will be called upon to audition for a role early in the year. They will be allocated roles based on their demonstration of their acting, singing and dancing abilities. All students will perform on stage in two matinees and two evening shows in November.

***Students in lead roles will begin working during Semester 1, with rehearsals to be held outside of school hours. There are opportunities to volunteer during Production week for lighting, sound, makeup, hair, music, props and costumes. Please contact Mr. Murray.**

Sculpture

Subject Length: 1 semester

Subject Fee: \$35

Within the subject area of Sculpture, students will explore and develop hand-building techniques and processes by using a range of mixed medium materials such as clay, mod rock, modelling wire, and paper clay. Students will create and hand sculpt unique 3-dimensional forms, implementing various mixed medium materials.

What is studied?

- Student's will develop their creative skills by carving, modelling and welding a variety of mixed medium materials
- Application of glazes and varnishes will be applied to add appeal to a finished sculpture
- Student's will develop how to successfully display sculptures within an exhibition space
- The design process will be applied in the development of final folios and sculptural outcomes
- Students will develop their analytical skills, and Art language through exploration and investigation of other artists'/sculptors work.
- Student's will have the opportunity to develop their skills using the wheel, and the kiln.

What type of work is done?

Within this subject student learning is developed and assessed through:

- Workshops and demonstrations to expand individual knowledge
- An excursion to Bendigo Pottery
- A Folio of ideas and final Sculptural outcomes
- Annotation of thumbnail sketches, ideas and inspiration of other artists,
- Use of mixed medium materials
- Artwork analysis and an exam

Visual Communication and Design

Subject Length: 1 semester

Subject Fee: No charge

Visual Communication is for any student who likes to create designs using Photoshop and enjoys designing logos, advertisements and products. Students will learn how to use Photoshop whilst learning other drawing techniques and skills. Students investigate their ideas through using the design process to create a range of different digital and hand drawn designs and presentations.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Exploration into different areas of design to create a series of different designs
- How to use Photoshop to create and refine designs
- Develop a variety of drawing skills
- How to communicate with different audiences through the use of the design elements
- Investigate the design process to generate and develop ideas

What type of work is done?

Within this subject student learning is developed and assessed through:

- Student Folio of ideas and final presentations
- Annotation of design concepts and ideas
- Drawing and Photoshop
- Design Analysis
- Exam

Visual Arts

Subject Length: 1 semester

Subject Fee: \$25

Year 9 Visual Art is a subject for students who are interested in expanding their skills and knowledge of the visual arts through the use of a variety of mediums and techniques including:

- Painting
- Drawing
- Collage
- Printmaking

Students are introduced to a variety of artists, both contemporary and historical, and will be provided with a range of practical workshops to expand students' individual practice. The course is structured around developing an artistic skill set and then applying this skill set to design and create a major artwork of students' choice. Students will be given opportunities to visit local galleries and will be mentored by specialist teaching staff who will assist students to meet their goals.

Within this subject student learning is based upon the following key knowledge and concepts:

- Students are introduced to a variety of mediums and practical techniques
- Students are introduced to a variety of artists both contemporary and historical
- Students use the design process to create a major artwork of their choice

Within this subject student learning is developed and assessed through:

- Developmental folios
- Artwork Analysis Tasks
- Major Artwork
- Exam

English Learning Area Subjects

English

Subject Length: 2 semesters

Subject Fee: \$10 levy

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Independent Reading Program
- Text studies – novel and film
- Poetry and song lyrics
- Persuasive and Fictional writing
- Public speaking

What type of work is done?

Within this subject student learning is developed and assessed through:

- Research tasks
- A variety of writing pieces
- Short answer questions and essays
- Text analysis – film and novel
- Discussions
- Oral presentations

Additional Information

BSE will provide novels and films for semester one's novel and film study units, but students will need to source and provide their own autobiography/biography during second semester.

English as an Additional Language (EAL)

Subject Length: 2 semesters

Subject Fee: No charge

English as an Additional Language (EAL) is an English subject available to students who are new English language learners. This subject is aimed at providing new English learners with the basic English and skills required to socialise in Australia. Typically, these students have not learnt English as their primary language throughout their previous schooling. For further information, contact Mr Wade McMillan, the College's EAL and Inclusion coordinator.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Vocabulary to develop basic English and add increasing amounts of subject specific and colloquial language.
- Grammar functions to move from basic to the specific types demanded by different subjects and tasks.
- Building use of English confidence across reading, writing, speaking and listening.

What type of work is done?

Within this subject student learning is developed and assessed through:

- Games
- Speaking, listening, reading, comprehension, writing tasks
- Life skills as negotiated
- General knowledge – usually to support mainstream subject learning

Additional Information

Based on the learning needs of the student, work may be varied to support individual student learning. Students who qualify for English as an additional language (EAL) can study EAL for two semesters.

Health and PE Learning Area Subjects

Health and Physical Education (Core)

Subject Length: 2 semesters

Subject Fee: \$5 levy

Health and Physical Education is a compulsory subject for all students which involves both a practical and theoretical component. Students participate in Sport Education which develops the students Leadership, Sportsmanship and Teamwork skills. In Year 9 students move towards developing their skills in a variety of Major Games.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Factors that impact upon healthy lifestyles and strategies to improve lifestyle habits
- Character strengths and strategies to build resilience
- Effective participation in Sport Education program
- Athletics
- Cultural Games – Students will be taught a variety of Australian Indigenous games.
- Fitness Testing
- Game Sense – space, time and effort

What type of work is done?

Within this subject student learning is developed and assessed through:

- Observational assessment of application within practical activities
- Sport Education delivery
- Health units are assessed through completion of workshops, collaborative activities and workbook tasks.
- Summative assessment task at the conclusion of health unit.

Athlete Development Program

Subject Length: 2 semesters

Subject Fee: \$1000

ADP provides a program dedicated to improving educational and sporting outcomes for students. The program provides an opportunity for student-athletes to pursue their passion in a holistic academic and sport-based partnership.

The foundations are underpinned by the individualisation and specialist nature of this program. All staff have specialised and extensive skills & experiences to facilitate this program.

At a physical level, the program aims to provide student-athletes with long-term athletic development training within a secondary college environment. To complement this physical preparation, the program provides high level technical coaching in a variety of sports.

Emphasis is placed on integrating students' passions, academic progress, behavioural expectations and effort requirements. These are the cornerstone of the ADP program.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Personalised training program, strength and conditioning
- Technical skills development
- Personal development
- Sports medicine support
- Victorian F – 10 Health and PE curriculum

What type of work is done?

Within this subject student learning is developed and assessed through:

- Continued Development of 'Talent', specific movement towards 'Mastery'
- Goal Setting & Individual Athlete Performance Plans
- Training Sessions specifically linked to Squad/Sport
- Individualisation of programming specific to Squad/Sport Movements (Primarily Prehabilitation)
- Consistent consultation between external coaches and ADP staff
- Continuation of Sport Performance Psychology
- Exploration of Sports Science and Training Concepts related to training and performance (Inquiry)

Additional Information

The Athlete Development Program is a SELECT ENTRY course. Entry into subject is undertaken via a separate ADP application. Contact the ADP Manager for further information. Students wishing to be part of the ADP program, who are not continuing from the previous year should contact the ADP Manager to discuss potential entry into the program.

Football Codes

Subject Length: 1 semester

Subject Fee: No fee

Football codes is a practical based unit aimed at students who enjoy playing sports such as Australian Rules Football, Soccer, Futsal, Rugby etc. Students will learn the skill fundamentals, movement concepts and game play strategies across the various sports. Students will be able to demonstrate their strengths in sports they are familiar with plus be expected to adapt and persist when challenged by new concepts.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Factors that impact upon healthy lifestyles and strategies to improve lifestyles habits
- Character strengths and strategies to build resilience
- Effective participation in Sport Education program
- Football codes such as: AFL, Soccer, Futsal, Gaelic, Speedball, Rugby and NFL
- Cultural Games – Students will be taught a variety of Australian Indigenous games.
- Fitness Testing
- Game Sense – space, time and effort

What type of work is done?

Within this subject student learning is developed and assessed through:

- Observational assessment of application within practical activities
- Sport Education delivery
- Health units are assessed through completion of workshops, collaborative activities and workbook tasks.
- Summative assessment task at the conclusion of health unit.

Skills for Life - Self Defence

Subject Length: 1 semester

Subject Fee: \$200 - which include multiple visits to a Martial Arts Centre and coaching

This subject gives students the opportunity to learn self-defence skills from professional coaches. Students are taught the history of martial arts and the cultural significance it has through frequent visits to the martial arts complex at Fit Republic. Throughout the unit students will also complete the same core health as all other year 9 students.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Development of martial arts (Karate) skills and establish an understanding of the discipline required
- Factors that impact upon healthy lifestyles and strategies to improve lifestyles habits
- Character strengths and strategies to build resilience
- Effective participation in Sport Education program
- Fitness Testing

What type of work is done?

Within this subject student learning is developed and assessed through:

- Instructor workshops and skill development towards awarding of martial arts belt
- Theory and practical work
- Observational assessment of application within practical activities
- Sport Education delivery
- Health units are assessed through completion of workshops, collaborative activities and workbook tasks.
- Summative assessment task at the conclusion of health unit.

Humanities Learning Area

Humanities (Core)

Subject Length: 2 semesters

Subject Fee: \$5 levy

The Humanities includes four interdisciplinary strands: Civics and Citizenship, Economics and Business, Geography and History. These four strands will be covered over the two year band of Years 9 and 10. The Humanities provide a framework for students to examine the complex processes that have shaped the modern world and to investigate responses to different challenges including people's interconnections with the environment. At a Year 9 Level, students also undertake opportunities relating to Career Development, which sets them in good stead for Year 10 Work Experience.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- **Economics and Business**
 - Resource Allocation and Making Choices
 - The Business Environment and Decision Making
 - Resource Allocation
 - Enterprising behaviours that are transferable into life, work and business opportunities
 - Reasoning and Interpretation
- **History – World War I**
 - Cause, Effects and Significance
 - Historical Studies
- **Geography – Environmental and Social Impacts**
 - Collect and Record Data, Processes and Interconnections
 - Biomes and Food Security
 - Town Planning
- **Civics and Citizenship**
 - Students learn about Australia's role in global systems, and are encouraged to appreciate democratic principles and to contribute as active, informed and responsible citizens.
- **Careers Education and Pathways**
 - Morrisby Online Career Diagnostic Assessment and 1:1 Counselling Session opportunity.

What type of work is done?

Within this subject student learning is developed and assessed through:

- Product and Business Creation Activities
- Analysis and Short Answer Response
- Historical/geographical Inquiry & Fieldwork
- Primary and Secondary Source Analysis
- Essay Writing
- Documentary Development
- Exam

Languages Learning Area Subjects

Chinese

Subject Length: 2 semesters

Subject Fee: \$33

Chinese is a vibrant, exciting and interactive course intended to have practical value for students to listen, read, speak and write the language as it is written and spoken in China.

Exciting extension activities outside the classroom are also provided, which can enrich students' personal and social skills, making learning Chinese fun.

Participating in speech competitions, cultural immersion days, languages evening, Chinese dancing, a fashion show, festivals and celebrations, calligraphy art workshops, Chinese food tasting and authentic restaurant visits are some of the many enjoyable activities which help foster the spirit of language learning.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Learn to indicate preferences and intentions
- Obtain the gist of a listening or written text, produce multi-model presentations to deliver information and
- express opinions and perspectives
- Create a short performance/rap to demonstrate Chinese people's life and compose a creative account
- imagined experience and create short plays for imagined characters
- Share information about membership of diverse groups and explores how this is expressed in Chinese
- Explore and compare the Australian and Chinese cultural influences such as beliefs, values and norms

What type of work is done?

Within this subject student learning is developed and assessed through:

- Completing the unit booklet
- Completing the unit language and cultural project
- Completing the listening, speaking, reading and writing learning assessment tasks

German

Subject Length: 2 semesters

Subject Fee: \$33

Students electing German continue to develop greater independence in listening, speaking, reading and writing skills to enhance effective communication. Year 9 students are able to host a German exchange student for 4 – 6 weeks (and then travel to Germany in Year 10) which provides an opportunity to excel in their language and cultural studies. Students participate in authentic conversation during the German exchange students visits in the classroom.

Topics studied throughout the year can include sport, places around town, modes of transport, shopping, clothing, excursions and holidays. Year 9 German students attend excursions such as the Calder Region German Day Out, Bendigo Art Gallery, restaurant visits, Languages evening and an interdisciplinary science workshop run by the Goethe Institute.

In order to further advance in their German, the Year 9 students will have the opportunity to participate in the Certificate II in Applied Language in German in Year 10 where real life situations are actively practiced. This a nationally recognised certificate.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Develop greater independence in listening, speaking, reading and writing skills to enhance effective communication
- Host a German exchange student for four to six weeks (and then travel to Germany in Year 10), which provides an opportunity to excel in their language and cultural studies
- Topics studied throughout the year include sport, places around town, modes of transport, shopping, clothing, excursions and holidays

What type of work is done?

Within this subject student learning is developed and assessed through:

- Showcasing oral skills through presentations, role play scenarios, movie making and performances
- Completion of interactive tasks on Education Perfect and assessment aligned with these tasks
- End of semester summative assessment exams
- Creating German written pieces linking with topics

Additional Information

Cultural immersion opportunities available include; excursions to the Calder Region German Day Out, Bendigo Art Gallery, restaurant visits and an interdisciplinary science workshop run by the Goethe Institute.

Indonesian

Subject Length: 2 semesters

Subject Fee: \$33

What is studied?

Indonesia is Australia's closest neighbour and is the fourth most populated country in the world with over 260 million speakers of Indonesian. What better reason do you need Bahasa Indonesia?

Learning another language opens your awareness of how other people communicate and live their daily lives. These skills are vital for your communication with and acceptance towards cultures other than your own. Another language can enrich not only your personal communication skills but also increase your career opportunities. Students are provided with many opportunities to enhance their language skills through immersion activities such as hosting exchange students, cooking and dining on Indonesian cuisine, participating in cultural excursions and activities both inside and outside of school.

Within this subject student learning is based upon the following key knowledge and concepts:

- Consolidating students' communication skills by collaborating with peers to engage in bargaining conversations, which form the basis of daily Indonesian market life
- Developing students' Indonesian socialising confidence in preparation for the study tour offered in Year 10
- Creating a range of their own engaging texts and translating texts from a variety of sources
- Reflecting on Indonesian language learning and cultural values of Indonesian life
- Building upon known Indonesian grammar and vocabulary to extend understanding to new concepts;
- Connecting and comparing Indonesian culture through pop culture; music, city living and slang

What type of work is done?

Within this subject student learning is developed and assessed through:

- Showcasing oral skills through presentations, role play scenarios, movie making and performances
- Completion of interactive tasks on Education Perfect and assessment aligned with these tasks
- End of semester summative assessment exams
- Creating Indonesian written pieces linking with topics
- Invitation to participate in statewide Sayembara Lisan speaking competition
- Restaurant excursion; Participation in Harmony Day

Additional Information

Students wishing to participate in the 2020 Indonesian study tour must be currently studying Indonesian.

Mathematics Learning Area

Mathematics

Subject Length: 2 semesters

Subject Fee: \$76 (for online Maths resource)

Mathematics provides students with access to important mathematical ideas, knowledge and skills that they will draw on in their personal and work lives. The curriculum also provides students, as life-long learners, with the basis on which further study and research in mathematics and applications in many other fields are built.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Number & Algebra
- Measurement & Geometry
- Statistics & Probability

What type of work is done?

Within this subject student learning is developed and assessed through:

- Teacher Directed Instruction
- Differentiated Maths Workshops
- Note Taking
- Application/Rich Task Activities
- Topic Tests
- End of Semester Summative Exam

Additional Information

The BSE Maths program provides a continuum of mathematical learning and allows for the differentiation for each student

Science Learning Area

Science

Subject Length: 2 semesters

Subject Fee: \$5 levy

The Year 9 Science program aims to equip students with valuable experiences to expand their knowledge of scientific theories and build on the application skills necessary to conduct interesting practical activities. Students will also work with scientific equipment, conduct research and write scientific reports. Students will also be introduced to some exciting new Science topics and research tasks.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Control and coordination of the human body
 - The Brain
 - Neuroplasticity
 - The nervous system
 - Endocrine system
- Energy
 - Types of energy
 - Energy transformations and transfers
 - Renewable energy sources
- Chemistry
 - Chemical reactions
 - Conservation of mass
 - Electronic structure of an atom
 - Alpha and beta particles and gamma radiation
- Global Patterns
 - Tectonic plates
 - Geological activity
 - Continental movement

What type of work is done?

Within this subject student learning is developed and assessed through:

- Collaborative work
- Research tasks
- STILE lessons
- Laboratory techniques
- Practical report
- Tests and exams

Technology Subjects

Automotive

Subject Length: 1 semester

Subject Fee: \$20

Students will explore the area of Automotive Technology by investigating the basic principles of mechanical systems. They will learn how they operate in automobiles and motorcycles through problem-based learning in assembly and disassembly projects. They will explore areas such as engine operation and performance, suspension systems, transmission and final drive. Students will get the opportunity to learn this through practical based work and simulated workshop practical tasks.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Different types of vehicle engines and fuels
- Vehicle subsystems
- Performance enhancements and modifications
- Vehicle safety systems and testing
- Practical learning contexts on small engines

What type of work is done?

Within this subject student learning is developed and assessed through:

- Individual and Collaborative Learning
- Theoretical and practical based approaches
- Mechanical component identification, operation and repair
- Folio compilation and submission

Digital Technologies

Subject Length: 1 semester

Subject Fee: No fee

This subject provides the opportunity for students to develop skills in data representation and compression, understanding networks, understanding operating systems, studying the National Broadband Network (NBN), and data security, malware and data collection. Students also investigate web-site development, developing algorithms, writing programs and managing projects.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Design, create, manage and evaluate sustainable and innovative digital solutions to meet and redefine current and future needs
- Computational thinking and the key concepts of abstraction
- Systems thinking to monitor, analyse, predict and shape the interactions within and between information systems and the impact of these systems on individuals, societies, economies and environments
- Use digital systems to efficiently and effectively automate the transformation of data into information and to creatively communicate ideas in a range of settings
- Apply protocols and legal practices that support safe, ethical and respectful communication and collaboration with known and unknown audiences.

What type of work is done?

Within this subject student learning is developed and assessed through:

- Data collection
- Representation and interpretation
- Specification and algorithms
- Development to create digital solutions
- Folio compilation and submission

Electronics

Subject Length: 1 semester

Subject Fee: \$40

Students will develop skills in the electronics area. Included is the safe use of equipment, solving practical problems, the development of a design folio and evaluation of the design and production process. Students are required to complete practical tasks using electronics componentry, soft solder and associated equipment. A theory research task will be undertaken and students can design their own project which includes researching, designing, producing and evaluating

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Understand and use of design briefs
- Combination of electronics technologies, such as inputs, outputs and microprocessors within electronic circuits
- Electronics systems and materials to build working models to solve a problem
- Designing, creating, managing and evaluation of sustainable and innovative solutions to meet and redefine current and future needs
- Applications of electronics and engineering electronic solutions

What type of work is done?

Within this subject student learning is developed and assessed through:

- Investigating, designing, producing and evaluating electronic products
- Research of client profile and client needs
- Application of knowledge to analyse needs and problems using electronic hardware and software
- Develop skills in investigative research
- Utilise electro technology applications
- Folio compilation and submission

Food Studies

Subject Length: 1 semester

Subject Fee: \$80

In this class students will undertake Design Briefs in: making a healthier biscuit, designing and producing a gourmet burger and creating a salad meal. They will follow the process of investigating, generating design ideas and evaluating products utilizing planning and managing strategies. Students will develop food preparation skills and knowledge of food properties to enable them to individualise outcomes considering the nutritional needs for good health in adolescence. Students will also focus on developing their skills of teamwork and reflection to improve learning.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Students will learn to understand and use design briefs
- Global and consumer issues from around the world
- Food preparation skills and nutritional needs for good health in adolescence
- Designing, modifying, producing and evaluating food products

What type of work is done?

Within this subject student learning is developed and assessed through:

- Investigating, designing, producing and evaluating a variety of food products.
- Research of their own nutritional needs
- Application of knowledge to analyse personal diet using computer program tasks.
- Food preparation, consumption and evaluation
- Folio compilation and submission

Metalwork

Subject Length: 1 semester

Subject Fee: \$80

Students will develop skills in the engineering area. Included is the safe use of equipment, solving practical problems, the development of a design folio and evaluation of the design and production process. Students are required to complete practical tasks using ferrous metals, non ferrous metals and alloys. A theory research task will be undertaken and students can design their own project which includes researching, designing, producing and evaluating.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Strategies for understanding design needs and opportunities to use metals as a material
- Visualising and generating creative and innovative metalwork projects
- Planning, and analysing and evaluating the ideas that best meet the criteria
- Different metals and their joining technologies
- Using metals to build projects to solve a problem or need

What type of work is done?

Within this subject student learning is developed and assessed through:

- Investigating, designing, producing and evaluating metalwork products.
- Research of client profile and client needs
- Application of knowledge to analyse needs and problems using metals as a material and joining technologies
- Develop skills in investigative research
- Utilise tools and equipment appropriate to metals
- Folio compilation and submission

Robotics

Subject Length: 1 semester

Subject Fee: \$20

Students undertaking this elective will learn about innovative technologies. Robotics and Mechatronics (mechanics and electronics) are increasingly becoming more significant in our lives and opening up new careers. This is a project based course that will introduce students to designing and building intelligent microprocessor-controlled electromechanical devices. Students will work to design and fabricate one as a final project.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Understanding and use of design briefs
- Robotics as a technology in past, current and future uses
- Inputs, outputs and processes employed within robotics
- Solving problems and need using robotics
- Designing, creating, managing and evaluation of sustainable and innovative solutions to meet and redefine current and future needs
- Applications of robotics solutions

What type of work is done?

Within this subject student learning is developed and assessed through:

- Investigating, designing, producing and evaluating
- Research of client profile and client needs
- Application of knowledge to analyse needs and problems using robotics and robotic software
- Develop skills in investigative research
- Utilise electro technology applications
- Folio compilation and submission

Textiles

Subject Length: 1 semester

Subject Fee: \$30 in 2019 - may increase

Textiles offers students the opportunity to understand design needs and the use of textiles as a material with a broad range of purposes. Students will investigate and generate creative ideas for solutions to problems that utilise textiles. They will explore the properties of different fibres and fabrics, increasing their knowledge and skills in the production of textile items and the sustainable and responsible use of resources.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Strategies for understanding design needs and opportunities to use textiles as a material
- Visualising and generating creative and innovative textile projects
- Planning, and analysing and evaluating the ideas that best meet the criteria
- Different textile material and their uses
- Using textiles as a material to manufacture a product that solves a problem or need

What type of work is done?

Within this subject student learning is developed and assessed through:

- Investigating, designing, producing and evaluating products.
- Research of client profile and client needs
- Application of knowledge to analyse needs and problems using textile materials
- Develop skills in investigative research
- Utilise tools and equipment appropriate to a product
- Folio compilation and submission

Woodwork

Subject Length: 1 semester

Subject Fee: \$55

Students develop skills in the woodwork area. This includes the safe use of equipment, solving practical problems, development of a design folio and evaluation of the design and production process. Areas of Study will include:- Safe and responsible work practices. Identification and correct use of relevant equipment and tools required for a range of working systems. Study of techniques used in the design and construction of a product.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Strategies for understanding design needs and opportunities to use wood as a material
- Visualising and generating creative and innovative woodwork projects
- Planning, and analysing and evaluating the ideas that best meet the criteria
- Different timbers and joining technologies
- Using wood to build projects to solve a problem or need

What type of work is done?

Within this subject student learning is developed and assessed through:

- Investigating, designing, producing and evaluating woodwork products.
- Research of client profile and client needs
- Application of knowledge to analyse needs and problems using wood as a material and joining technologies
- Develop skills in investigative research
- Utilise tools and equipment appropriate to woodwork
- Folio compilation and submission

Multidisciplinary Subjects

Human Powered Vehicles

Subject Length: 1 semester

Subject Fee: \$120 in 2019 may increase

Students are involved with the racing and running of our Human Powered Vehicles (HPVs). Competing in the HPV schools' competition held periodically, students have the opportunity to participate in the design, construction, racing and maintenance of the vehicle. Students will follow the design process by writing a Design Brief, investigating, sketching possible designs, producing a working drawing and evaluating their final design.

What is studied?

Within this subject student learning is based upon the following key knowledge and concepts:

- Strategies for understanding design needs for competitive Human Powered Vehicles
- Visualising and generating creative and innovative solutions
- Planning, analysing and evaluating the ideas that best meet the criteria
- Using materials and their joining technologies
- Using different materials and systems to build Human Powered Vehicles
- Racing Human Power Vehicles

What type of work is done?

Within this subject student learning is developed and assessed through:

- Working in teams to investigate, design, produce and evaluate Human Powered Vehicles
- Developing skills and knowledge related to practical projects with a range of materials and techniques
- Working with materials such as carbon fibre, fibreglass, metals, plastics, and resins
- Applying knowledge to analyse needs and problems using materials and technologies
- Utilise tools and equipment appropriate to Human Powered Vehicles
- Participating in competitive racing as a team member
- Folio compilation and submission

Additional Information

Human Powered Vehicles develops a student's ability for innovative and creative thought through team-based planning, development and building of a Human Powered Vehicles to be raced.

STEM

Subject Length: 1 semester

Subject Fee: \$120

Want to work with robots, virtual reality, lasers, 3D printing to design create and test solutions for our local health, agricultural, environmental systems, or even cure diseases? Then choosing STEM is your foot in the door. Studying STEM means learning about the world around you, finding innovative solutions to real-world challenges, and playing a role in some of Bendigo's major discoveries and developments.

It has been predicted that 75 percent of all jobs will require STEM skills over the next decade, so it is highly recommended that STEM be considered as an elective in the middle years. STEM is important for our students because future jobs will require problem solving skills, innovation and creative thinking and digital skills. STEM will allow students to further develop what is currently covered in the SDL course. Students need to learn how to think critically and flexibly in order to adapt to this rapidly changing world.

In partnership new state of the art Bendigo Tech School and local industries such as Thales, you'll have these opportunities and more to bring your ideas to reality in STEM. And don't forget — you'll be taught by professionals who are passionate about their fields. These include researchers, designers, engineers and seasoned industry experts who are all leaders in their fields. If you want to make a difference and use the latest and most up to date technology to immerse yourself into real world science issues, then this is the subject for you. Create your unique approach and use technology, drama, industry tours, laboratory work and field trips as all important components to add to your unique STEM journey.

What is studied?

Within this subject student learning is based upon the following key knowledge and skills:

- Personal and Social, Intercultural, Ethical Critical and Creative Thinking
- Collaboration, Communication, Innovation, Creativity, Decision Making
- Metacognition, Deductive Reasoning
- Social Awareness & Management, Self-Awareness & Management

What type of work is done?

Within this subject student learning is developed and assessed through:

- Design Thinking
- Team Formation & Collaboration Process
- Empathy, Ideation, Planning & Research
- Prototyping & Reflective Practice
- Tech Skill Acquisition
- Human Psychology, Professional Communication