

St Patrick's College Ballarat

Year 10 Subject Information Booklet





ST PATRICK'S COLLEGE BALLARAT

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ST PATRICK'S COLLEGE BALLARAT

YEAR 10 SUBJECT SELECTION INFORMATION

The Year 10 program at St Patrick's College consists of core subjects (compulsory for all) and elective subjects.

CORE SUBJECTS (All students)

- Religious Education
- English
- Humanities
- Mathematics
- Physical Education
- Science

Full descriptions of each of the above core subjects can be found later in this Subject Selection Handbook.

ELECTIVES

Students are required to choose two elective subjects in each semester.

All elective subjects run for one semester only and cannot be repeated, except for Japanese, which is a year-long elective.

It may not always be possible to give each student their preferred elective choices. Student numbers, staffing, timetabling and facilities will all impact on the subjects which will run in 2024. The 2024 Year 10 Subject Selection Guide requires students to choose reserve choices, in case a student does not receive their first elective choice.

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 SUBJECT SELECTION PLANNER

SUBJECT	SEMESTER 1	SEMESTER 2
RELIGIOUS EDUCATION (compulsory) Select one of:	Religious Education or Texts and Traditions	Religious Education or Texts and Traditions
ENGLISH (compulsory) Select one of:	English or English Language & Literature	English or English Language & Literature
MATHEMATICS (compulsory)	Foundation or Pre-General or Pre-Methods	Foundation or Pre-General or Pre-Methods
SCIENCE (compulsory) Select one for each semester	Biology Chemistry Environmental Science Physics	Biology Chemistry Environmental Science Physics
SPORT (compulsory)	Sport	Sport
HUMANITIES (compulsory) Select at least one of:	History – 20 th Century Australian Ancient History Legal & Political Studies Commerce	History – 20 th Century Australian Ancient History Legal & Political Studies Commerce
ELECTIVE (select one per semester)		
ELECTIVE (select one per semester)		



Arts



YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 ARCHITECTURE

Year Level	Year 10
Subject Title	Architecture
Length of Study	Single semester
Unit Description Summary	<p>Architecture study offers students a comprehensive introduction to architectural design and theory. The curriculum covers architectural history, design elements and principles, architectural construction techniques, and sustainable practices.</p> <p>Students apply their understanding of concepts and develop their creative skills. Students learn how to draw manually, creating perspective, isometric, planometric, plan view, and elevation drawings. Students are also exposed to computer-aided design (CAD) software, enabling them to create and present their architectural designs using modern tools.</p>
Content Overview	<p>In this subject, students will study:</p> <ul style="list-style-type: none"> • Architectural drawing (manual) • Architectural design • CAD • Architectural design analysis
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This unit provides some foundation for studies in:</p> <ul style="list-style-type: none"> • VCE Visual Communication Design • VCE Product Design & Technology • VCE Systems Engineering <p>This unit also provides some foundation for future studies at university and TAFE institutions in:</p> <ul style="list-style-type: none"> • Design • Architecture
Outcome Assessment Description	<p>Students will be assessed using a combination of the following:</p> <ul style="list-style-type: none"> • Architectural Design • Folio of Architectural drawing • Presentations
Contact Details at St Patrick's College	Your Year 9 Art teacher or Ms Jeanean Pritchard (Head of Arts)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 ART

Year Level	Year 10
Subject Title	Art
Length of Study	Single semester
Unit Description Summary	<p>Art is a dynamic and immersive program designed to unleash students' creativity and help them develop their artistic skills. Students will engage in various art forms, both traditional and digital, including drawing, painting, sculpture, printmaking, and mixed media. They will explore different techniques, materials, and concepts, allowing for a comprehensive understanding of the artistic process.</p> <p>Students will learn about art history, gain insights into influential artists, and analyze different artistic styles to broaden their artistic knowledge and inspiration.</p>
Content Overview	<p>In this subject, students will study:</p> <ul style="list-style-type: none"> • Drawing & Painting • Sculpture/Ceramics • Printmaking • Mixed Media • Digital Art • Artist & Artwork Analysis
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This unit provides some foundation for studies in:</p> <ul style="list-style-type: none"> • VCE Visual Communication Design • VCE Art Making & Exhibiting • VCE VET Creative Digital Media <p>This unit also provides some foundation for future studies at university and TAFE institutions in:</p> <ul style="list-style-type: none"> • Visual arts • Screen • Animation • Photography • Graphic design • Theatre arts
Outcome Assessment Description	<p>Students will be assessed using a combination of the following:</p> <ul style="list-style-type: none"> • Visual journal • Folio of finished artwork • Presentations
Contact Details at St Patrick's College	Your Year 9 Art teacher or Ms Jeanean Pritchard (Head of Arts)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 MEDIA

Year Level	Year 10
Subject Title	Media
Length of Study	Single semester
Unit Description Summary	<p>The Media course is an engaging program that explores the world of media with an emphasis on film. Students will analyse a media text, examining the production techniques, narratives, aesthetics, and cultural contexts. They will also explore issues such as media representation, and audience reception.</p> <p>Students will create their own films, and learn about storytelling techniques, media technologies, and the process of media production, including pre-production planning, production, and post-production editing.</p>
Content Overview	<p>In this subject, students will study:</p> <ul style="list-style-type: none"> • Media language • Media production • Media representation • Media in Society
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This unit provides some foundation for studies in:</p> <ul style="list-style-type: none"> • VCE Media • VCE VET Creative Digital Media <p>This unit also provides some foundation for future studies at university and TAFE institutions in:</p> <ul style="list-style-type: none"> • Screen and media • Journalism • Photography • Animation.
Outcome Assessment Description	<p>Students will be assessed using a combination of the following:</p> <ul style="list-style-type: none"> • Short Film Production • Analysis of a film text • Analysis of media practices
Contact Details at St Patrick's College	Your Year 9 Arts teacher or Ms Jeanean Pritchard (Head of Arts)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 PHOTOGRAPHY

Year Level	Year 10
Subject Title	Photography
Length of Study	Single semester
Unit Description Summary	<p>Photography is a comprehensive program designed to equip students with the fundamental knowledge and skills needed to excel in the art of photography. Students will learn about camera and equipment handling, composition, lighting techniques, and post-processing techniques, such as colour correction, retouching, and image manipulation.</p> <p>Students will explore different types of photography, such as landscape, portrait, still life, and street/action photography, and study the work of professional photographers.</p>
Content Overview	<p>In this course, students will study:</p> <ul style="list-style-type: none"> • Camera handling • Composition • Lighting • Post-processing • Photographic artwork analysis
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This unit provides some foundation for studies in:</p> <ul style="list-style-type: none"> • VCE Visual Communication Design • VCE Art Making & Exhibiting • VCE VET Creative Digital Media • VCE Media <p>This unit also provides some foundation for future studies at university and TAFE institutions in:</p> <ul style="list-style-type: none"> • Photography • Screen and media • Journalism • Graphic design • Arts
Outcome Assessment Description	<p>Students will be assessed using a combination of the following:</p> <ul style="list-style-type: none"> • Visual journal • Folio of photography • Presentations
Contact Details at St Patrick's College	Your Year 9 Arts teacher or Ms Jeanean Pritchard (Head of Arts)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 VISUAL COMMUNICATION DESIGN

Year Level	Year 10
Subject Title	Visual Communication Design
Length of Study	Single semester
Unit Description Summary	<p>Visual Communication Design (VCD) students develop their creative and technical skills through the exploration of design elements and principles, design thinking, problem-solving, use of digital and traditional media, and analysis of professional practice.</p> <p>Students will engage in practical tasks, including sketching, illustration, typography, layout design, environmental design, digital design, industrial design, and packaging design.</p>
Content Overview	<p>In this subject, students will study:</p> <ul style="list-style-type: none"> • Drawing for communication • The Design Process • Design Fields • Analysis of Professional Practice
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This unit provides some foundation for studies in:</p> <ul style="list-style-type: none"> • VCE Visual Communication Design • VCE VET Creative Digital Media • VCE Art Making & Exhibiting <p>This unit also provides a foundation for Higher Education Degrees or TAFE courses such as:</p> <ul style="list-style-type: none"> • Design and design-related studies • Communication • Industrial and fashion design • Architecture • Media
Outcome Assessment Description	<p>Students will be assessed using a combination of the following:</p> <ul style="list-style-type: none"> • Manual & digital drawing • Technical & instrumental drawing • Design tasks that respond to a given brief • Professional practice analysis
Contact Details at St Patrick's College	Your Year 9 Visual Communication Design/Arts teacher or Ms Jeanean Pritchard (Head of Arts)



Computing



YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 COMPUTER PROGRAMMING

Year Level	Year 10
Subject Title	Computing Programming
Length of Study	Single semester
Unit Description Summary	<p>Programming teaches you the language of code and how to create a digital solution. Along with being fun and personally rewarding, learning to program gives you valuable ICT skills for the future.</p> <p>Why not ask your parents, teachers and coaches how frequently they use ICT in their profession? In this subject you will learn the fundamentals of software development and making innovative applications.</p>
Content Overview	<p>In this subject, students will:</p> <ul style="list-style-type: none"> • Learn how to go about building software applications • Develop skills in a programming language to create a solution • Obtain professional ICT practices • Acquire 21st Century skills (communication, collaboration, problem-solving & ICT skills) • Use tools to design and manage projects • Develop safe and secure applications that consider security and privacy • Explore how programming is used to enhance the world
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This subject provides a foundation for students to study the following VCE subjects:</p> <ul style="list-style-type: none"> • VCE Units 1&2 Applied Computing • VCE Units 3&4 Data analytics • VCE Units 3&4 Software development <p>Students who excel in Year 10 Programming can apply to do VCE Units 3&4 Software Development as a Year 11 student.</p>
Outcome Assessment Description	<ul style="list-style-type: none"> • Develop and build individual software projects • Report on the development of programming solutions • An end of semester examination
Contact Details at St Patrick's College	Your Year 9 Computing Teacher, Ms Katherine Swagerman (Head of Computing) or Mr Ian Fernée



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 COMPUTING

Year Level	Year 10
Subject Title	Computing
Length of Study	Single semester
Unit Description Summary	<p>Technologies enrich the lives of people and society. Australia needs enterprising individuals who can make discerning decisions about the development and use of technologies. These people can independently and collaboratively develop digital solutions to complex challenges.</p> <p>This course will challenge students to use design thinking to create digital solutions for real world problems. This course is also designed to enhance a student's computer literacy through learning software skills that can be used for both computing and in the 21st century digital environment.</p>
Content Overview	<p>In this subject, students will look at:</p> <ul style="list-style-type: none"> • Creating interactive solutions that produce information for users • Developing a solution with the end user in mind • Working collaboratively with others to investigate, design, plan, manage, create and evaluate solutions • Developing new thinking and learning skills and more productive ways of working and solving problems • Expanded use of Microsoft Office suite - in particular Excel • An introduction to MS Access and Programming • Advanced use of Windows, the Internet, file storage and collaboration software. • Being able to make informed and ethical decisions about the role, impact and use of technologies in society • Developing new thinking and learning skills and more productive ways of working and solving problems individually and collaboratively
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This subject provides a foundation for students to study the following VCE subjects:</p> <ul style="list-style-type: none"> • VCE Units 1/2 Applied Computing • VCE Units 3/4 Data analytics • VCE Units 3/4 Software development
Outcome Assessment Description	<ul style="list-style-type: none"> • The completion of software tutorials • Project tasks where students create a digital solution using various software tools • Group collaborative tasks to develop a solution • End of Semester Exam
Contact Details at St Patrick's College	Your Year 9 Computing Teacher, Ms Katherine Swagerman (Head of Computing) or Mr Ian Fernée

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 COMPUTING HARDWARE

Year Level	Year 10
Subject Title	Computing Hardware
Length of Study	Single semester
Unit Description Summary	<p>Students will learn how the components of computer systems work along with the process of selecting compatible parts. Students will design, build and configure their own system and explore core computing software.</p> <p><u>Specific Requirements:</u></p> <ul style="list-style-type: none"> • Students who intend to undertake this subject are to discuss it with their parents first as there is an understanding that students will purchase computer parts to build their computer. A significant portion of the course is hands on and involves students working on their own machines • Students considering this course are advised to discuss the costs involved with the Head of Computing. The predicted financial outlay for a desktop computer needs to be considered, if choosing this subject • The teacher will guide individual students on the selection of parts based off initial budget discussions that students will have with parents. Recommendations based on current technology will be provided to students • The computer parts will need to be purchased
Content Overview	<p>In this subject, students will investigate:</p> <ul style="list-style-type: none"> • How pieces of computer hardware operate and the process of selecting compatible parts • The steps involved in building a computer and how-to troubleshoot problems • The process of installing, configuring and using software • How computers operate in a networked environment and how to manage files • Skills in using various software applications such as OneNote and Excel
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This subject provides a foundation for students to study the following VCE subjects:</p> <ul style="list-style-type: none"> • VCE Units 1&2 Applied Computing • VCE Units 3&4 Data analytics • VCE Units 3&4 Software development
Outcome Assessment Description	<ul style="list-style-type: none"> • Students will complete various individual and collaborative project tasks • Students will be assessed on the process by which they build a computer, analyse the selection of parts and the use of ICT skills in this process • Students will have an end of semester exam and topics tests for this subject
Contact Details at St Patrick's College	Your Year 9 Computing Teacher, Ms Katherine Swagerman (Head of Computing) or Mr Ian Fernée



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 COMPUTING - INNOVATIVE DIGITAL SOLUTIONS

Year Level	Year 10
Subject Title	Computing - Innovative Digital Solutions
Length of Study	Single semester
Unit Description Summary	New and innovative digital solutions are being created every day using amazing technology. This course calls all young thinkers, designers and creators to prototype the solutions of tomorrow.
Content Overview	<p>In this subject, students will:</p> <ul style="list-style-type: none"> • Manage, develop, create and market a solution • Applied digital technology skills (working with hardware, data and code) • Explore the theory and purpose behind innovative solutions • Engage in STEM based 21st Century skills • Understand how technology can be used in society to benefit people • Exploration into topics such as: <ul style="list-style-type: none"> ○ Artificial Intelligence (AI) ○ Internet of Things (IoT) ○ games development ○ multimedia programming ○ web authoring ○ virtual reality ○ computer coding ○ application development
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This subject provides a foundation for students to study the following VCE subjects:</p> <ul style="list-style-type: none"> • VCE Units 1/2 Applied Computing • VCE Units 1-4 VET Creative Industries • VCE Units 3&4 Data analytics • VCE Units 3&4 Software development <p>Students typically study VCE Units 1&2 Applied Computing as a Year 11 student and then VCE Units 3&4 Data analytics and/or VCE Units 3&4 Software development in Year 12. VET Creative Industries Units 1-4</p>
Outcome Assessment Description	<ul style="list-style-type: none"> • Students will develop various small projects to solve a problem • In the creation of innovative ideas students will document their solution. This may take the form of technology presentation, proof of concept, solution prototype or solution development • Oral and visual presentations of a solution to discuss the idea and function of a solution • The creation of a detailed solution folio undertaking the computing Problem Solving Methodology (PSM) • Topic tests • End of semester exam
Contact Details at St Patrick's College	Your Year 9 Computing Teacher, Ms Katherine Swagerman (Head of Computing) or Mr Ian Fernée

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 CREATIVE DIGITAL MEDIA

Year Level	Year 10
Subject Title	Creative Digital Media
Length of Study	Single semester
Unit Description Summary	<p>This course is intended to introduce students to the many career opportunities available in the Creative Industries field such as 3D artists, web designers, animators and special effects artists. Students will be provided with an introduction to the skills developed in the Cert III in Screen and Media</p> <p>Students will receive an introduction to digital photo editing, image creation, web design and 3D modelling. Skills will be developed in a series of practical product based projects</p> <p>The skills developed are applicable in a wide range of industries.</p>
Content Overview	<p>In this subejct students will study:</p> <ul style="list-style-type: none"> • Theory – Career, Design and Art (ongoing over the semester) • Photoshop Skill Development • Introduction to 3D Modelling • Introduction to Web Design
Pre-Requisites for this Study	There is no prerequisite for this subject but having completed Year 9 Creative Digital Media is of benefit.
Future Study Pathway	<p>This subject provides a foundation for students to study the following VCE subjects:</p> <ul style="list-style-type: none"> • VET Certificate III in Screen and Media • VCE Units 1&2 Applied Computing • VCE Units 1-4 VET Creative Industries
Outcome Assessment Description	<ul style="list-style-type: none"> • Photoshop Portfolio • 3D Model Portfolio and final Project • Website Development
Contact Details at St Patrick's College	Your Year 9 Computing Teacher, Ms Katherine Swagerman (Head of Computing) or Mr Ian Fernée



Drama



YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 ACTING, DIRECTING AND DESIGN FOR THEATRE

Year Level	Year 10
Subject Title	Acting, Directing & Design for Theatre
Length of Study	Single semester
Unit Description Summary	<p>In this subject, students choose three production roles to focus on across three areas of study to enhance their understanding of acting, directing or design for theatre.</p> <p>Students complete a mini class production and an individual monologue focusing on two contrasting theatre styles to enable a greater understanding of theatre conventions.</p> <p>Students are not required to act, they may choose technical or design production roles that best suit their interests including the following options: direction, acting, set design, costume design, make-up design, properties design, lighting design or sound design.</p> <p>Students will go and see a live production to analyse and evaluate the success of the performance.</p>
Content Overview	<p>In this subject, students will investigate:</p> <ul style="list-style-type: none"> • Class production: contribution across 2 production roles (any two of: direction, acting, set design, costume design, make-up design, properties design, lighting design or sound design) • Monologue interpretation: students choose 2 production roles to interpret a 3-minute monologue (any two of: direction, acting, set design, costume design, make-up design, properties design, lighting design or sound design) • Interpreting a script: students answer short answer questions explaining how they would interpret a previously unseen script
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This subject provides a foundation for future study in:</p> <ul style="list-style-type: none"> • VCE Unit 1&2 Theatre Studies • VCE Unit 3&4 Theatre Studies
Outcome Assessment Description	<p>This subject will be assessed on:</p> <ul style="list-style-type: none"> • Class production: final designs/performance and folio completion • Monologue interpretation: final interpretation and oral statement • Interpreting a script: short answer test • End of semester exam
Contact Details at St Patrick's College	Your year 9 Drama teacher or Ms.Ms Monique Allen (Head of Drama)



English



YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 ENGLISH

Year Level	Year 10
Subject Title	English
Length of Study	Full year
Unit Description Summary	Year 10 English seeks to promote and develop proficiencies in speaking, listening, reading, viewing and writing. Building competence in English skills and knowledge assures students access to the full range of opportunities into their future.
Content Overview	<p>The areas of study for Semester 1 English are:</p> <ul style="list-style-type: none"> • Text Response – Novel • Argument Analysis • Persuasive Oral Presentation • Text Response – Film <p>The areas of study for Semester 2 English are:</p> <ul style="list-style-type: none"> • Text Response – Play • Argument Analysis • Craft of Writing
Pre-Requisites for this Study	A sound understanding of English based on results above 50% in Year 9 English.
Future Study Pathway	<p>This subject provides a foundation for students to study:</p> <ul style="list-style-type: none"> • VCE Units 1&2 English • VCE Units 1&2 Literature • VCE Units 1&2 English Language • VCE Units 1&2 Foundation English (provides greater support if they are challenged by the Year 10 course)
Outcome Assessment Description	<p>Year 10 English will be assessed by:</p> <ul style="list-style-type: none"> • Class work • Assessment tasks • End of semester exam
Contact Details at St Patrick's College	Your Year 9 English teacher or Mrs Trudi O'Callaghan (Head of English)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 FOUNDATION ENGLISH

Year Level	Year 10
Subject Title	Year 10 Foundation English
Length of Study	Full year
Unit Description Summary	<p>Year 10 Foundation English offers an opportunity for students to engage in learning that will prepare them for either VCE English or VCE-VM Literacy. The course is designed for those who have had difficulties accessing Year 9 English or who have come from Year 9 Foundation English.</p> <p>The same high expectations exist, in terms of all the skills and knowledge built in a Core Year 10 English, but the texts used are shorter and allow more time to delve into them.</p>
Content Overview	<p>The areas of study for Semester 1 Foundation English are:</p> <ul style="list-style-type: none"> • Film Study • Argument Analysis • Oral Presentation <p>The areas of study for Semester 2 Foundation English are:</p> <ul style="list-style-type: none"> • Text Response – short text • Oral – role play job interview or debate • Writing Portfolio – a range of genres
Pre-Requisites for this Study	An understanding of English based on results below 50% in Year 9 English OR Year 9 Foundation English
Future Study Pathway	Students may undertake VCE Units 1&2 English. They may also find that Unit 1&2 Foundation English provides greater support if they are challenged by the Year 10 course. VCE-VM Literacy is the other option available, depending on pathway choices.
Outcome Assessment Description	<p>Year 10 Foundation English will be assessed by:</p> <ul style="list-style-type: none"> • Class work • Assessment tasks • End of semester exam
Contact Details at St Patrick's College	Your Year 9 English teacher or Mrs. Trudi O'Callaghan (Head of English)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 ENGLISH LANGUAGE AND LITERATURE

Year Level	Year 10
Subject Title	English Language and Literature
Length of Study	Full year
Unit Description Summary	Year 10 English Language and Literature is a year-long subject where students will study a semester of English Language and a Semester of Literature. This provides an opportunity to explore which English students have strengths in moving into their VCE studies.
Content Overview	<p>The areas of study for Semester 1 English Language are:</p> <ul style="list-style-type: none"> • What is language? • History of English • Subsystems of English <p>The areas of study for Semester 2 Literature are:</p> <ul style="list-style-type: none"> • Close analysis of poetry • Creative response • The text in its context
Pre-Requisites for this Study	A sound understanding of English based on results above 60% in Year 9 English.
Future Study Pathway	<p>This subject provides a foundation for students to study:</p> <ul style="list-style-type: none"> • VCE Units 1&2 English • VCE Units 1&2 Literature • VCE Units 1&2 English Language
Outcome Assessment Description	<p>Year 10 English Language and Literature will be assessed by:</p> <ul style="list-style-type: none"> • Class work • Assessment tasks • End of semester exam
Contact Details at St Patrick's College	Your Year 9 English teacher or Mrs Trudi O'Callaghan (Head of English)



Heath and Physical Education



YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 HEALTH

Year Level	Year 10
Subject Title	Health
Unit of Study	N/A
Unit Description Summary	<p>The Year 10 Health curriculum takes a broad and multidimensional approach to defining and understanding health and wellbeing. Students investigate the World Health Organization's definition and other interpretations of health and wellbeing.</p> <p>Students consider wellbeing to be an implicit element of health. Wellbeing is a complex combination of all dimensions of health, characterised by an equilibrium in which the individual feels happy, healthy, capable, and engaged.</p> <p>Students develop health literacy as they connect their learning to their lives, communities, and world. They develop a capacity to respond to health information, advertising, and other media messages, enabling them to put strategies into action to promote health and wellbeing in both personal and community contexts.</p>
Content Overview	<ul style="list-style-type: none"> • An understanding of the health status of Australians by investigating the burden of disease and the health of population groups in Australia • An understanding of the concepts of health and individual human development • An introduction to human nutrition
Pre-Requisites for this Study	N/A
Future Study Pathway	Year 10 Health aims to prepare students for studies in VCE Health and Human Development.
Outcome Assessment Description	<ul style="list-style-type: none"> • Research assignments • Class tests • End of semester exam
Contact Details at St Patrick's College	Mr Nash (Head of Health and Physical Education) or one of your Health/PE teachers.



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 PHYSICAL EDUCATION

Year Level	Year 10
Subject Title	Physical Education
Unit of Study	N/A
Unit Description Summary	<p>Physical Education examines how the body performs during exercise and sporting activity. The course closely examines the functions of the body and how these functions interplay to deliver peak performance..</p> <p>Physical Education in Year 10 builds an understanding of how training and exercise in areas such as strength, flexibility and endurance relate to physical performance.</p> <p>Please note: Year 10 Physical Education is designed to prepare students for VCE Units 1-4 Physical Education. This is a theory-based class. Students participate in some practical classes.</p>
Content Overview	<p>Knowledge and skills students will gain include:</p> <ul style="list-style-type: none">• The anatomy and physiology of the human body (with emphasis on the muscular, skeletal, and cardiorespiratory systems), during exercise and sporting activity• The role of energy systems and use of food fuels in physical performance• Identification and testing of fitness components.• Devising training sessions that incorporate specific fitness components and training methods.
Pre-Requisites for this Study	N/A
Future Study Pathway	VCE Units 1&2 Physical Education and then onto VCE Units 3&4 Physical Education. Students may also undertake VCE VET Sport and Recreation.
Outcome Assessment Description	<ul style="list-style-type: none">• Laboratory Reports• Tests• End of semester Exam
Contact Details at St Patrick's College	Mr Nash (Head of Health and Physical Education) or your classroom Physical Education teacher.

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 SPORT

Year Level	Year 10
Subject Title	Sport
Length of Study	Full year
Unit Description Summary	<p>Physical activity, sport and recreation are important in the lives of people in Australia. For a long time now the link between lifelong participation in physical activity and sport, and physical, social, and emotional, fitness, health and wellbeing, has been clear.</p> <p>Sport education at St Patrick's College seeks to provide boys with experiences that are challenging and enjoyable, and that promote personal growth and lifelong physical activity.</p>
Content Overview	<p>In this subject, students will investigate a range of lifestyle sports and activities such as:</p> <ul style="list-style-type: none"> • Croquet • Tennis • Netball • Tenpin • Fitness • Futsal • Lawn bowls • Golf
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>Year 10 Sport marks the end of students' compulsory involvement in HAPE subjects. By now it is hoped that students have developed skills, understandings and abilities that will allow them to choose to continue healthy activity levels throughout their adult lives.</p> <p>Academically, Year 11 presents a number of options to continue student involvement in Sport, Physical Education, Health Education or VET Sport and Recreation.</p> <p>Senior School students may also elect to study:</p> <ul style="list-style-type: none"> • VCE Physical Education • VCE Health & Human Development • VET Sport and Recreation
Outcome Assessment Description	Year 10 Sport will be assessed through the teacher's direct observation of student participation in, and level of application to, practical activities.
Contact Details at St Patrick's College	Your Year 9 Physical Education Teacher or Mr Tom Nash (Head of Health and Physical Education)



Humanities



YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 ANCIENT HISTORY

Year Level	Year 10
Subject Title	Ancient History
Length of Study	Single semester
Unit Description Summary	<p>The Year 10 Ancient History course delves into the fascinating civilizations of the ancient world, examining their origins, achievements, and legacies. Students will explore key themes and analyse diverse sources to develop historical understanding and critical thinking skills. Using a range of primary and secondary sources, students will learn to evaluate evidence, analyse historical interpretations, and develop their own arguments. They will explore the ways in which geography, religion, technology, and human interactions influenced the rise and fall of ancient civilizations.</p> <p>By the end of the course, students will have gained a comprehensive understanding of the major ancient civilizations and their enduring impacts on the modern world. They will develop skills in historical inquiry, interpretation, analysis, and communication, enabling them to construct well-reasoned arguments and evaluate historical evidence.</p>
Content Overview	<p>In this subject, students will study:</p> <ul style="list-style-type: none"> • How we know about the past • The development of ancient civilisation • Depth study into at two civilisations <ul style="list-style-type: none"> ○ Ancient Rome ○ Ancient Greece
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This unit provides a solid foundation for other VCE history studies including:</p> <ul style="list-style-type: none"> • VCE Units 1&2 Modern History • VCE Units 3&4 Australian History • VCE Units 3&4 Revolutions
Outcome Assessment Description	<ul style="list-style-type: none"> • Topic tests • Source analysis • End of semester exam
Contact Details at St Patrick's College	Your Year 9 Humanities Teacher or Mr Matt Miller (Head of Humanities)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 COMMERCE

Year Level	Year 10
Subject Title	Commerce
Length of Study	Single semester
Unit Description Summary	This unit provides a solid foundation and direct pathway into several VCE subjects such as Business Management, Economics, Accounting and/or Industry and Enterprise. Students can develop their understanding of economics and business concepts by exploring the marketing and accounting processes required to start a business.
Content Overview	<p>In this subject, students will study:</p> <ul style="list-style-type: none">• Business concepts, principles and terminology• The purpose and significance of business within local, national and global contexts• The complex and changing environment that businesses operate within and the nature of relationships between key stakeholders within that environment• The role of accounting in the management and operation of a small business• Develop an understanding of how the Australian economy operates, and the relationship between economic events and outcomes
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This unit provides a solid foundation for:</p> <ul style="list-style-type: none">• VCE Units 1&2 Business Management• VCE Units 1&2 Economics• VCE Units 1&2 Accounting• VCE Units 1&2 Industry and Enterprise
Outcome Assessment Description	<ul style="list-style-type: none">• Topic tests• Research project• End of semester exam
Contact Details at St Patrick's College	Your Year 9 Humanities Teacher or Mr Matt Miller (Head of Humanities)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 LEGAL STUDIES

Year Level	Year 10
Subject Title	Legal Studies
Length of Study	Single semester
Unit Description Summary	Year 10 Legal Studies is an engaging and comprehensive course designed to introduce students to the fundamental principles and concepts of law within the Victorian legal system. This course is aligned with the Victorian Curriculum, equipping students with the knowledge and skills necessary to understand the role of law in society and how it impacts individuals, communities, and institution
Content Overview	<p>In this subject, students will study:</p> <ul style="list-style-type: none"> • Legal Studies • Law in Society • Criminal Law • Civil Law • Constitutional Law • Youth Justice
Pre-Requisites for this Study	N/A
Future Study Pathway	This unit provides a solid foundation for related VCE Legal Studies
Outcome Assessment Description	<ul style="list-style-type: none"> • Topic tests • End of semester exam
Contact Details at St Patrick's College	Your Year 9 Humanities Teacher or Mr Matt Miller (Head of Humanities)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 TWENTIETH CENTURY HISTORY - AUSTRALIA

Year Level	Year 10
Subject Title	Twentieth Century History - Australia
Length of Study	Single semester
Unit Description Summary	<p>The Year 10 20th Century History course explores the significant events, movements, and individuals that shaped the world in the 20th century. Students will investigate key themes and analyse primary and secondary sources to develop historical understanding and critical thinking skills. Throughout the course, students will examine the major political, social, economic, and cultural developments that occurred during this period.</p> <p>Through engaging with a range of historical perspectives, students will gain insight into the complexities of 20th century history and its enduring impacts on the contemporary world. They will develop skills in historical inquiry, interpretation, analysis, and communication, enabling them to construct well-reasoned arguments and evaluate historical evidence.</p> <p>By the end of the course, students will have a comprehensive understanding of the major historical events and forces that shaped the 20th century. They will also develop a broader appreciation for the historical context of modern societies and their own place within it. This course aims to foster critical thinking, empathy, and a lifelong appreciation for history.</p>
Content Overview	<p>In this subject, students will study:</p> <ul style="list-style-type: none"> • Path to war • World War II • Cold War
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>This unit provides a solid foundation for related VCE history studies including:</p> <ul style="list-style-type: none"> • VCE Units 1&2 Modern History • VCE Units 3&4 Australian History • VCE Units 3&4 Revolutions
Outcome Assessment Description	<ul style="list-style-type: none"> • Topic tests • Source analysis • End of semester exam
Contact Details at St Patrick's College	Your Year 9 Humanities Teacher or Mr Matt Miller (Head of Humanities)



Languages





ST PATRICK'S COLLEGE BALLARAT

YEAR 10 JAPANESE

Year Level	Year 10
Subject Title	Japanese
Length of Study	Full year
Unit Description Summary	<p>In Year 10 Japanese students become more fluent and accurate in both spoken and written language. They use an increasing range of vocabulary for topics related to their personal world and everyday life in Japanese speaking communities. They use Japanese to communicate and socialise, to access and exchange information, to express feelings and opinions. They develop greater control of grammatical elements and demonstrate understanding of language variation and change.</p> <p>In written and spoken Japanese they use expressive and descriptive language appropriate for a variety of purposes using modelled examples for complex structures. Students learn about the values and beliefs that underpin Japanese culture and increase their understanding of the relationship between language and culture. Students continue to use the phonetic hiragana and katakana scripts and learn the kanji related to the selected topics.</p>
Content Overview	<p>In this subject students will focus on two key areas:</p> <p>Communicating - students will learn Japanese for:</p> <ul style="list-style-type: none">• Socializing in a variety of spoken and written contexts• Locating ideas in a range of spoken and written texts, comparing points of view, giving opinions, and presenting information in a variety of formats• Creating new texts to inform or entertain• Translating familiar texts such as emails and blog posts into Japanese and English• Reflecting on their own identity and culture and their intercultural interactions <p>Understanding - students will learn to:</p> <ul style="list-style-type: none">• Understand the systematic nature of Japanese language and grammatical forms• Recognize variations in language use that reflect different social and cultural contexts, purposes and relationships• Recognize that Japanese culture is embedded in the language
Pre-Requisites for this Study	Students typically complete Year 9 Japanese before enrolling in Year 10 Japanese.
Future Study Pathway	Students continue the study of Japanese by enrolling in Japanese Second Language Units 1&2.
Outcome Assessment Description	<p>In Japanese students complete a range of assessment tasks on each chosen topic. Students will:</p> <ul style="list-style-type: none">• Produce a variety of written texts for a range of purposes• Complete reading and listening comprehension tasks• Participate in short conversations and prepare and present information to the class• Complete an examination at the end of each semester
Contact Details at St Patrick's College	Your Year 9 Japanese teacher or Mr Paul Tucker (Head of Languages)



Mathematics





ST PATRICK'S COLLEGE BALLARAT

YEAR 10 FOUNDATION MATHEMATICS

Year Level	Year 10
Subject Title	Foundation Mathematics
Length of Study	Full year
Unit Description Summary	<p>Foundation Mathematics is an accessible course that engages students in the practical applications of mathematics and provides the knowledge that they will require to be successful in the workplace, for both finances and for their own interests.</p> <p>Students consolidate mathematical foundations, further develop their knowledge and capability to plan and conduct activities independently and collaboratively, communicate their mathematical ideas, and acquire mathematical knowledge skills to make informed decisions in their lives.</p>
Content Overview	<p>The areas of study for Foundation mathematics are:</p> <ul style="list-style-type: none">• Measurement• Consumer & Financial mathematics• Pythagoras' Theorem• Algebra• Equations• Geometry• Trigonometry• Statistics
Pre-Requisites for this Study	N/A
Future Study Pathway	This subject is designed as preparation for VCE Foundation Mathematics Unit 1&2.
Outcome Assessment Description	<p>Foundation Mathematics will be assessed by:</p> <ul style="list-style-type: none">• Class work• Tests• Assignments• Summary and review notes• End of semester exam
Contact Details at St Patrick's College	Your Year 9 Mathematics teacher or Mr Steven Biggin (Head of Mathematics)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 PRE-GENERAL MATHEMATICS

Year Level	Year 10
Subject Title	Pre-General Mathematics
Length of Study	Full year
Unit Description Summary	<p>Pre-General Mathematics continues to build upon the general maths skills that students have developed through Years 7-9. This subject is intended to be widely accessible by many different types of mathematics students.</p> <p>All topics are non-calculus based and are designed to provide general preparation for employment or further mathematical study, particularly where data analysis, financial maths and number patterns are important. General mathematics is often the minimum mathematics required for many university courses or trades.</p>
Content Overview	<p>The areas of study for Year 10 Pre-General mathematics are:</p> <ul style="list-style-type: none"> • Linear Relations • Finance • Geometry • Trigonometry • Measurement • Probability • Statistics
Pre-Requisites for this Study	Strong performance in Year 9 Pre-General Mathematics is strongly advised.
Future Study Pathway	Pre-General mathematics is designed as preparation for students to study General Mathematics Units 1&2.
Outcome Assessment Description	<p>Pre-General Mathematics will be assessed by:</p> <ul style="list-style-type: none"> • Class work • Tests • Assignments • Summary and review notes • End of semester exam
Contact Details at St Patrick's College	Your Year 9 Mathematics teacher or Mr Steven Biggin (Head of Mathematics)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 PRE-METHODS MATHEMATICS

Year Level	Year 10
Subject Title	Pre-Methods Mathematics
Length of Study	Full year
Unit Description Summary	<p>Pre-Methods Mathematics is also known as “pure” mathematics. In Year 10 Pre-Methods Mathematics, the topics covered include algebra, geometry, trigonometry, probability, measurement and some statistics. These topics are applied in a variety of practical and theoretical contexts. They also provide background for further study in science, humanities, economics and medicine, etc.</p> <p>Pre-Methods Mathematics is seen as more advanced than General Mathematics, whilst being more accessible than Specialist Mathematics.</p>
Content Overview	<p>The areas of study for Pre-Methods Mathematics are:</p> <ul style="list-style-type: none">• Trigonometry• Linear Relations• Functions & Graphs• Indices & Surds• Quadratics• Probability• Logs & Polynomials• Parabolas
Pre-Requisites for this Study	Strong performance in Year 9 Pre-Methods is advised.
Future Study Pathway	<p>This subject helps prepare students to undertake any of the VCE Mathematics options. This includes:</p> <ul style="list-style-type: none">• VCE General Mathematics• VCE Mathematical Methods• VCE Specialist Mathematics
Outcome Assessment Description	<p>Pre-Methods Mathematics will be assessed by:</p> <ul style="list-style-type: none">• Class work• Tests• Assignments• Summary and review notes• End of semester exam
Contact Details at St Patrick's College	Your Year 10 Mathematics teacher or Mr Steven Biggin (Head of Mathematics)



Music





ST PATRICK'S COLLEGE BALLARAT

YEAR 10 MUSIC PERFORMANCE

Year Level	Year 10
Subject Title	Music Performance
Length of Study	Semester or Full Year
Unit Description Summary	This subject provides opportunities for students to build and develop performance skill, music language and knowledge in music technology to become a competent performer / band member. Students will acquire performance techniques, stagecraft and rehearsal technique to rehearse and perform as a soloist, as well as being part of a self-initiated ensemble.
Content Overview	<p>In this subject, students will investigate:</p> <ul style="list-style-type: none"> • Performing and rehearsing techniques • Stagecraft elements and skills • The latest music technology including Digital Audio Workstation (DAW) • Music language – theory and aural comprehension in all forms of documentation (such as staff notation, letter names, graphic notation, tablature, chord symbols, rhythm grids)
Pre-Requisites for this Study	N/A
Future Study Pathway	The completion of Music Performance at Year 10 prepares students for the study of VCE Music Units 1-4.
Outcome Assessment Description	<p>Performance skills:</p> <ul style="list-style-type: none"> • Practice routine & journal • Participation in rehearsals • Solo performance • Group performance <p>Music language comprehension & analysis:</p> <ul style="list-style-type: none"> • Theory & Aural workbook • Research presentation <p>Music technology portfolio:</p> <ul style="list-style-type: none"> • Journal & presentation • Live performance with music technology
Contact Details at St Patrick's College	Mr Jerry Lau (Head of Music)



Religious Education





ST PATRICK'S COLLEGE BALLARAT

YEAR 10 PHILOSOPHY

Year Level	Year 10
Subject Title	Philosophy
Length of Study	Full year
Unit Description Summary	<p>Philosophy is suited to those students who naturally question the world around them. Philosophy, meaning love of wisdom, is built on questioning the reality of the world. It is for those students who want to develop their creative thinking.</p> <p>The primary way in which philosophy benefits individuals is through its development of questioning. Philosophy in this sense, cultivates open-mindedness through an exploration of multiple viewpoints and critical reflection of your thinking and that of others. Furthermore, philosophy develops precision of language and argument.</p>
Content Overview	<p>In this subject, students will investigate:</p> <ul style="list-style-type: none"> • The nature of reality • How real is virtual reality? • Are material/physical objects the only things that exist? • Is the world only a story? • Free-Will: Are we free to make decisions? • Does having choice mean we are free? • If the rest of the universe is governed by scientific laws, does that mean we aren't free? • What does it mean to experience something? • Is pleasure the only thing that matters in life?
Pre-Requisites for this Study	N/A
Future Study Pathway	A study in Year 10 Philosophy will lead to further Philosophical studies in VCE Units 1-4.
Outcome Assessment Description	<p>Students will be assessed through the use of:</p> <ul style="list-style-type: none"> • Weekly Tasks • Essays • End of Semester exam
Contact Details at St Patrick's College	Mr Nathaniel Winfield (Philosophy Teacher) or Mr Mitchell Leviston (Head of Religious Education)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 RELIGIOUS EDUCATION

Year Level	Year 10
Subject Title	Religious Education
Length of Study	Full year
Unit Description Summary	<p>Using the theme, The Search for Meaning, the Year 10 Religious Education course allows students to investigate and explore several key topics:</p> <ul style="list-style-type: none"> • Who God is • Finding meaning in texts • The nature of love • The exploration of life <p>This includes an understanding of the Gospel message of Jesus Christ and explores ways to carry out the mission of the Catholic Church in the modern world. Knowledge and skills students will gain include but are not limited to:</p> <ul style="list-style-type: none"> • An understanding of the New Testament scripture accounts • Ways in which people can access God, through nature, relationships, and joy • The power of love in the world and the message to help others • Knowledge of the resurrection of Jesus Christ and his mission
Content Overview	<p>In this subject, students will investigate:</p> <ul style="list-style-type: none"> • Who is God? • Finding meaning in texts • The nature of love and • The exploration of life
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>The study of Year 10 Religion will lead to all options available in Religious Education offerings in VCE:</p> <ul style="list-style-type: none"> • Religion and Society • Texts and Traditions • Philosophy • Religion (Non-VCE)
Outcome Assessment Description	Students will complete a series of formative and summative assessment tasks including an analysis of Who is God, an exegesis of Luke, and a reflection on Christian love. Students will also sit an end of semester exam.
Contact Details at St Patrick's College	Your Year 9 RE teacher, or Mr Mitchell Leviston (Head of the Religious Education)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 TEXTS AND TRADITIONS

Year Level	Year 10
Subject Title	Texts and Traditions
Length of Study	Full Year
Unit Description Summary	<p>Using the theme World of the Text: What is the Good News? students studying Texts and Traditions will investigate Luke's gospel and what it is that makes it unique amongst the other gospels.</p> <p>This subject is for students who enjoy studying history, the deeper aspects of religion, and comparative text study. In this, students gain a wider appreciation of the scripture that comes to inform the Christian tradition.</p>
Content Overview	<p>Through this study, students will:</p> <ul style="list-style-type: none"> • Gain an understanding of the New Testament and Old Testament scripture accounts • Describe the historical background of the text • Understand the literary aspects of the Bible • Explain how scholars have found meaning in the biblical texts
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>The study of Year 10 Texts and Traditions will lead to all options available in Religious Education offerings in VCE:</p> <ul style="list-style-type: none"> • Religion and Society • Texts and Traditions • Philosophy • Religion (Non-VCE)
Outcome Assessment Description	Students will complete a series of formative and summative assessment tasks including exegesis, essays, tests, short answers, and extended responses.
Contact Details at St Patrick's College	Mrs Ingrid Perkins (Texts and Traditions Teacher) or Mr Mitchell Leviston (Head of Religious Education)



Science





ST PATRICK'S COLLEGE BALLARAT

YEAR 10 BIOLOGY

Year Level	Year 10
Subject Title	Biology
Length of Study	Single Semester
Unit Description Summary	<p>Students in Year 10 Biology study the role of DNA and genes in cell division and genetic inheritance. Following this, students explore the biological, chemical, geological and physical evidence for different theories, including the theory of natural selection.</p> <p>They also study the evolution of the human species and apply geological timescales to elaborate their explanations of both natural selection and evolution. Students construct evidence-based arguments and use appropriate scientific language and representations when communicating their findings and ideas when reporting on dog breeding.</p>
Content Overview	<p>Year 10 Biology includes the following topics:</p> <ul style="list-style-type: none">• Cell Structure• DNA and RNA• Protein Synthesis• Genetics and Inheritance• Evolution
Pre-Requisites for this Study	Year 9 Science
Future Study Pathway	Year 10 Biology provides the fundamental knowledge for students to succeed in VCE Biology.
Outcome Assessment Description	<p>Year 10 Biology includes the following assessments:</p> <ul style="list-style-type: none">• Topic Tests• Practical Reports• Case Studies• Scientific Posters• Semester Examination
Contact Details at St Patrick's College	Your year 9 Science teacher or Mr James Russell (Head of Science)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 CHEMISTRY

Year Level	Year 10
Subject Title	Chemistry
Length of Study	Single Semester
Unit Description Summary	<p>Students are introduced to the periodic table and learn that chemical behaviour and atomic structure are connected in the way the periodic table is constructed. Students investigate the chemistry of related substances and interpret their results in terms of classes of reactions, for example, those between acids and bases, or metals and non-metals.</p> <p>They represent reactions, using chemical formulae and word equations, and learn how to calculate the masses of products of reactions.</p>
Content Overview	<p>Year 10 Chemistry includes the following topics:</p> <ul style="list-style-type: none"> • The Periodic Table • Bonding Models • Chemical Reactions • Reaction Kinetics • Stoichiometry • Organic Chemistry
Pre-Requisites for this Study	Year 9 Science
Future Study Pathway	Year 10 Chemistry provides the fundamental knowledge for students to succeed in VCE Chemistry
Outcome Assessment Description	<p>Year 10 Chemistry includes the following assessment forms:</p> <ul style="list-style-type: none"> • Topic Tests • Practical Reports • Scientific Posters • Semester Examination
Contact Details at St Patrick's College	Your year 9 Science teacher or Mr James Russell (Head of Science)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 ENVIRONMENTAL SCIENCE

Year Level	Year 10
Subject Title	Environmental Science
Length of Study	Single Semester
Unit Description Summary	<p>Year 10 Environmental Science will encourage students to examine how they interact with the world around them. They will explore concepts of the earth being a dynamic system involving interactions with biosphere, hydrosphere, lithosphere and atmosphere, and associated cycles such as nitrogen, carbon, and water cycles.</p> <p>Students will conduct habitat assessments of local environments and apply this information to develop an environmental management plan. Management of local and global environmental issues such as waste, climate, and energy use, will be explored through case studies and students will have the opportunity to discuss issues and draw evidence-based conclusions.</p>
Content Overview	<p>Year 10 Environmental Science includes the following topics:</p> <ul style="list-style-type: none">• Soils• Biodiversity• Ecosystems• Sustainable Housing• Renewable Energy• Global Systems
Pre-Requisites for this Study	Year 9 Science
Future Study Pathway	Year 10 Environmental Science provides students with the fundamental knowledge to succeed in VCE Environmental Science.
Outcome Assessment Description	<p>Year 10 Environmental Science includes the following assessments:</p> <ul style="list-style-type: none">• Topic Tests• Practical Reports• Case Studies• Semester Examination
Contact Details at St Patrick's College	Your year 9 Science teacher or Mr James Russell (Head of Science)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 PHYSICS

Year Level	Year 10
Subject Title	Physics
Length of Study	Single Semester
Unit Description Summary	<p>Students use the context of direct relevance to their lives to investigate and experience a wide range of physical phenomena related to motion, magnets, and the universe. Students develop skills in explaining that the motion of objects involves the interaction of forces and the exchange of energy and can be described and predicted using the laws of physics.</p> <p>Following this student then investigate and explain that the interaction of magnets can be explained by the field model; magnets are used in the generation of electricity and the operation of motors. Finally, students examine the universe, including galaxies, stars and solar systems; and how the Big Bang theory can be used to explain the origin of the universe.</p>
Content Overview	<p>Year 10 Physics includes the following topics:</p> <ul style="list-style-type: none"> • Universe • Magnetism • Motion
Pre-Requisites for this Study	Year 9 Science
Future Study Pathway	Year 10 Physics provides students with the fundamental knowledge to succeed in VCE Physics.
Outcome Assessment Description	<p>Year 10 Physics includes the following assessments:</p> <ul style="list-style-type: none"> • Topic Tests • Scientific Posters • Practical Reports • Semester Examination
Contact Details at St Patrick's College	Your year 9 Science teacher or Mr James Russell (Head of Science)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 PSYCHOLOGY

Year Level	Year 10
Subject Title	Psychology
Length of Study	Single Semester
Unit Description Summary	<p>This subject is suited for students who have an interest in the study of human behaviour through biological, psychological, and social perspectives. Psychology is a broad discipline that incorporates both the scientific and systematic application of knowledge to personal and social circumstances in everyday life. Knowledge and skills to be covered are designed to give students an introduction to the topics they can expect to undertake in Unit 1-4 studies of Psychology.</p> <p>These include: the structure and function of the nervous system and how they interact to coordinate the functioning of the body, Nature Vs Nurture, Social cognition, Sensation and Perception, investigating the various models of learning and memory, describing the purpose of sleep, exploring, and understanding factors that contribute to mental health and wellbeing.</p>
Content Overview	<p>Year 10 Psychology includes the following topics:</p> <ul style="list-style-type: none">• The Nervous System• Sensation and Perception• Memory• Forensic Psychology
Pre-Requisites for this Study	Year 9 Science
Future Study Pathway	Year 10 Psychology provides students with the fundamental knowledge required to succeed in VCE Psychology
Outcome Assessment Description	<p>Year 10 Psychology includes the following assessments:</p> <ul style="list-style-type: none">• Topic Tests• Case Studies• Practical Reports• Semester Examination
Contact Details at St Patrick's College	Your year 9 Science teacher or Mr James Russell (Head of Science)



Technology





ST PATRICK'S COLLEGE BALLARAT

YEAR 10 DESIGN AND TECHNOLOGY - WOOD

Year Level	Year 10
Subject Title	Design and Technology – Wood
Length of Study	Single semester
Unit Description Summary	<p>This study introduces students to the ever-progressing world of design within the technology setting. Students will gain an understanding of the influencing factors that surround the development of a product and give them the opportunity to further develop their woodworking skills.</p> <p>This course has an extensive product design focus which requires students to develop a solution for a given situation. Students will then safely manufacture their product through workshop activities, following teacher instruction. This course may suit those interested in careers in the manufacturing and construction industries.</p>
Content Overview	<p>Within this unit, students will study:</p> <ul style="list-style-type: none">• Contemporary product design skills and techniques• Traditional and CAD prototyping and graphics• Development of a production plan• Woodworking using contemporary and traditional tools, machines, and processes• Evaluation of the design process
Pre-Requisites for this Study	N/A
Future Study Pathway	This course is designed as a foundation for VCE Units 1&2 Product Design and Technology.
Outcome Assessment Description	<ul style="list-style-type: none">• Development of a design folio which follows the design process and develops a solution to a given problem• Manufacture of one major product• Evaluation of the finished product• End of semester exam
Contact Details at St Patrick's College	Your Year 9 Technology Teacher or Mr Roger Knight (Head of Technology)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 FOOD AND TECHNOLOGY

Year Level	Year 10
Subject Title	Food and Technology
Length of Study	Single semester
Unit Description Summary	<p>This study is suitable for students interested in developing a range of skills in the key chemical and functional properties of food and food groups. This knowledge is then applied to food preparation skills.</p> <p>Throughout this course, students are encouraged to engage in various forms of critical thinking such as problem solving, decision making and investigation to present information.</p>
Content Overview	<p>Within this unit, students will study:</p> <ul style="list-style-type: none"> • Understanding the 'design process' and developing the associated skills and techniques required to research, design, and produce • The principles of baking and key ingredients • The influence that various cultures have had on food consumption today • The use of food models in food selection • The role of key foods and nutrients in the diet throughout stages of the life span • The application of safe and proper work practices in a kitchen environment • Understanding of the food industry and the effects on a global scale
Pre-Requisites for this Study	N/A
Future Study Pathway	This course is designed as a foundation for VCE Units 1&2 Food Technology.
Outcome Assessment Description	Food Technology is assessed through various forms. These range from written tasks, end of semester examination, practical work (cooking), written assignments, and investigations.
Contact Details at St Patrick's College	Your Year 9 Food and Technology Teacher or Mr Roger Knight (Head of Technology)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 PATHWAYS IN HOSPITALITY

Year Level	Year 10
Subject Title	Pathways in Hospitality
Length of Study	Single semester
Unit Description Summary	<p>This study is suitable for students interested in developing specific skills for the Hospitality industry. Ballarat's hospitality industry currently has an ever-increasing gap between "job-ready" school leavers and positions vacant.</p> <p>This has created increased opportunities for willing and job-ready employees to find and retain meaningful work in an exciting career. This course will offer the opportunity for you to be "job-ready".</p>
Content Overview	<p>Within this unit, students will study:</p> <ul style="list-style-type: none"> • Food knowledge (at the introductory level) • Food safety (a practical working knowledge of hygiene and safe work practices) • Basic knife skills and safety • Use of basic kitchen and cookery equipment • Knowledge and ability to clean kitchen premises • Knowledge and practical demonstration of basic methods of cookery to produce simple dishes. • Ability to follow a recipe • Understanding of hospitality industry • Front of house operations
Pre-Requisites for this Study	N/A
Future Study Pathway	From Year 10 Pathways in Hospitality, you can progress onto VCE Units 1-4 Food and Technology or look to gain employment in a trade or move into a School Based Apprenticeship and Traineeship.
Outcome Assessment Description	<p>The Pathways in Hospitality course will have a range of different tasks and activities, which will be assessed in a range of diverse ways.</p> <p>Students will be working in a supervised commercial kitchen and will need to meet basic requirements as set out in the relevant curriculum documentation.</p> <p>Assessment will be both competency-based and assessable tasks.</p>
Contact Details at St Patrick's College	Year 9 Food Technology Teachers or Mr Roger Knight (Head of Technology)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 PATHWAYS IN TRADE

Year Level	Year 10
Subject Title	Pathways in Trade
Length of Study	Single semester
Unit Description Summary	<p>Pathways in Trade introduce students to some of the basic skills and knowledge associated with a variety of construction trades. Any students interested in maintaining trade-based employment options in the future should consider this subject.</p> <p>The aim of this course is to:</p> <ul style="list-style-type: none"> • Develop a broad base of key skills and knowledge in a range of construction trades • Enable students to develop and identify a career pathway through exposure to a variety of tasks • Develop work-related skills and employability attitudes
Content Overview	<p>Within this unit, students will study:</p> <ul style="list-style-type: none"> • Occupational Health and Safety • Carpentry hand tools • Basic joinery techniques • Basic building techniques • Welding (Gas / MIG) • Metal Fabrication • Finishing processes • Applied Mathematics • Materials ordering • Project Management • Building documentation • Manual Handling techniques
Pre-Requisites for this Study	N/A
Future Study Pathway	The Pathways in Trade course will prepare you for whichever direction you may go. You may choose to continue into the VET Building and Construction or VET Engineering course(s), look to gain employment in a trade or move into a School Based Apprenticeship.
Outcome Assessment Description	<p>The Pathways in Trade course will have a range of different tasks and activities which will be assessed in a range of diverse ways.</p> <p>Students will be working in a supervised classroom and simulated workplace environment and will need to meet basic requirements as set out in the relevant curriculum documentation.</p> <p>Assessment will be both competency-based and assessable tasks.</p>
Contact Details at St Patrick's College	Mr Mike Kent or Mr Roger Knight (Head of Technology)



ST PATRICK'S COLLEGE BALLARAT

YEAR 10 SYSTEMS ENGINEERING

Year Level	Year 10
Subject Title	Systems Engineering
Length of Study	Single semester
Unit Description Summary	<p>In this study, students learn how motion, force and energy are used to manipulate and control electromechanical systems when creating simple engineered solutions. Students study mechatronic systems and learn to problem solve using mechanisms and electronics.</p> <p>They use CAD CAM and 3D printing technology to design and make components for mechatronic systems. They study basic machines and the ways that mechanisms transform energy and motion from one form to another. Students study basic circuits and learn basic systems control and coding with microcontrollers.</p> <p>In Systems Engineering, there is an emphasis placed on STEM (Science Technology Engineering and Mathematics).</p>
Content Overview	<p>Knowledge and skills students will gain include:</p> <ul style="list-style-type: none">• The Design Process• Basic mechanical and electrical engineering• Safe work practice with tools and equipment• CAD-CAM skills• 3D printing• Coding and microcontrollers
Pre-Requisites for this Study	N/A
Future Study Pathway	VCE Units 1&2 Systems Engineering.
Outcome Assessment Description	<ul style="list-style-type: none">• Engineering basic theory• Folio tasks that include investigating, generating, producing, evaluating, planning, and managing a range of projects.• Projects (production)• Semester exam
Contact Details at St Patrick's College	Your Year 9 systems teacher or Mr Roger Knight (Head of Technology)

YEAR 10 SUBJECT INFORMATION HANDBOOK



YEAR 10 VET CERTIFICATE II IN BUILDING AND CONSTRUCTION / CARPENTRY

Year Level	Year 10
Subject Title	VCE VET Certificate II in Building and Construction – Carpentry
Length of Study	Full year
Unit Description Summary	<p>This two-year program is for students who are seriously considering a career in the building industry. VET Building and Construction aims to:</p> <ul style="list-style-type: none"> • Provide students with knowledge and skill to achieve modules that will enhance their employment prospects within the building and construction industry • Enable students to gain credit towards a nationally recognised credential, and to make a more informed choice of vocational and career paths
Content Overview	<p>Knowledge and skills students will gain include:</p> <ul style="list-style-type: none"> • Workplace safety and industry induction • Workplace procedures for environmental sustainability • Levelling • Safe handling and use of plant and power tools • Workplace documents and plans • Building structures • Calculations for the building industry • Carpentry hand tools • Introduction to demolition • Basic setting out. • Sub floor framing • Wall framing • Roof framing • External cladding
Pre-Requisites for this Study	N/A
Future Study Pathway	<p>The VCE VET Building and Construction program provides partial completion of the Certificate II in Building and Construction (Bricklaying, Carpentry, Painting and Decoration – Pre-Apprenticeship).</p> <p>Additional training is required to complete the pre-apprenticeship. The training undertaken may lead to a career path within the Building and Construction industry. Trade qualifications are available in General Construction:</p> <ul style="list-style-type: none"> • Carpentry – Framework/Formwork/Finishing.
Outcome Assessment Description	<p>Under full supervision in a classroom and simulated workplace, students must complete all practical and written tasks to an acceptable standard. Assessment methods will involve application of skills and knowledge related to the construction industry.</p> <p>Students will demonstrate competence through oral or written questioning, written tests, and practical tasks.</p>
Contact Details at St Patrick's College	Mr Mike Kent or Mr Roger Knight (Head of Technology)

