

**St Joseph's School**  
**Year 11**  
**Course Handbook**  
**2020**



## Contents

<b>Page</b>	<b>Content</b>
2	List of content
3	Religion and Life ATAR and English ATAR
4	Mathematics Applications and Mathematics Methods
5	Biology ATAR and Chemistry ATAR
6	ATAR- Geography, Physical Education Studies and Physics
7	ViSN- Human Biology ATAR and Modern History ATAR
8	ViSN- Psychology ATAR
9 & 10	ViSN- Curtin Uniready
11	General Religion & Life and General English
12	General Mathematics- Essential and Foundation
13	Drama General and Food Science & Technology General
14	(General) Integrated Science & MDT & Outdoor Education
15	ViSN- Business Certificate II/III

# ATAR

## Religion and Life- List A

The Religion and Life ATAR course provides students with opportunities to explore how and why individuals and communities relate to and understand religion. Students use a range of inquiry skills to explore at least one religious worldview and to investigate characteristics of religion, their origins, foundations, cultural influences and development over time. They also use these skills to analyse the role religion plays in society and to consider the challenges and opportunities religions face in the future.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/humanities-and-social-sciences/religion-and-life>

**Pre-requisite-** Year 10 WA Curriculum C grade in Religious Education

## English- List A

The English ATAR course focuses on developing students' analytical, creative, and critical thinking and communication skills in all language modes, encouraging students to critically engage with texts from their contemporary world, the past, and from Australian and other cultures. Through close study and wide reading, viewing and listening, students develop the ability to analyse and evaluate the purpose, stylistic qualities and conventions of texts and to enjoy creating imaginative, interpretive, persuasive and analytical responses in a range of written, oral, multimodal and digital forms.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/english/english2>

**Pre-requisite-** Year 10 WA Curriculum C grade in English

## **Mathematics Applications- List B**

This course focuses on the use of mathematics to solve problems in contexts that involve financial modelling, geometric and trigonometric analysis, graphical and network analysis, and growth and decay in sequences. It also provides opportunities for students to develop systematic strategies based on the statistical investigation process for answering statistical questions that involve analysing univariate and bivariate data, including time series data. The Mathematics Applications ATAR course is designed for students who want to extend their mathematical skills beyond Year 10 level, but whose future studies or employment pathways do not require knowledge of calculus. The course is designed for students who have a wide range of educational and employment aspirations, including continuing their studies at university or TAFE.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/mathematics/mathematics-applications>

**Pre-requisite-** Year 10 WA Curriculum C grade in Mathematics

## **Mathematics Methods- List B**

This course focuses on the use of calculus and statistical analysis. The study of calculus provides a basis for understanding rates of change in the physical world, and includes the use of functions, their derivatives and integrals, in modelling physical processes. The study of statistics develops students' ability to describe and analyse phenomena that involve uncertainty and variation.

Mathematics Methods provides a foundation for further studies in disciplines in which mathematics and statistics have important roles. It is also advantageous for further studies in the health and social sciences. In summary, this course is designed for students whose future pathways may involve mathematics and statistics and their applications in a range of disciplines at the tertiary level.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/mathematics/mathematics-methods>

**Pre-requisite-** Year 10 WA Curriculum B grade in Mathematics

## **Biology- List B**

A unique appreciation of life and a better understanding of the living world are gained through studying the Biology ATAR course. This course encourages students to be analytical, to participate in problem-solving and to systematically explore fascinating and intriguing aspects of living systems, from the microscopic level through to ecosystems.

Students develop a range of practical skills and techniques through investigations and fieldwork in authentic contexts, such as marine reefs, endangered species, urban ecology, or biotechnology. Scientific evidence is used to make informed decisions about controversial issues.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/science/biology>

**Pre-requisite-** Year 10 WA Curriculum C grade in Science

## **Chemistry- List B**

The Chemistry ATAR course equips students with the knowledge, understanding and opportunity to investigate properties and reactions of materials. Theories and models are used to describe, explain and make predictions about chemical systems, structures and properties. Students recognise hazards and make informed, balanced decisions about chemical use and sustainable resource management. Investigations and laboratory activities develop an appreciation of the need for precision, critical analysis and informed decision-making.

This course prepares students to be responsible and efficient users of specialised chemical products and processes at home or in the workplace. It also enables students to relate chemistry to other sciences, including biology, geology, medicine, molecular biology and agriculture, and prepares them for further study in the sciences.

Course Link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/science/chemistry>

**Pre-requisite-** Year 10 WA Curriculum B grade in Science

## **Geography- List A**

The study of the Geography ATAR course draws on students' curiosity about the diversity of the world's places and their peoples, cultures and environments. It provides students with the knowledge and understanding of the nature, causes and consequences of natural and ecological hazards, international integration in a range of spatial contexts, land cover transformations, and the challenges affecting the sustainability of places. In the ATAR course, students learn how to collect information from primary and secondary sources, such as field observation and data collection, mapping, monitoring, remote sensing, case studies and reports.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/humanities-and-social-sciences/geography>

**Pre-requisite-** Year 10 WA Curriculum C grade in HASS

## **Physical Education Studies- List B**

Physical Education Studies contributes to the development of students' physical, social and emotional growth. In the Physical Education Studies ATAR course, students learn about physiological, psychological and biomechanical principles, and apply these to analyse and improve personal and group performances in physical activities. Throughout the course, students learn through integrated written, oral and active learning experiences. The course also provides students with opportunities to develop skills that will enable them to pursue personal interests and potential in physical activity as athletes, coaches, officials, administrators and/or volunteers.

Course Link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/health-and-physical-education/physical-education-studies>

**Pre-requisite-** Year 10 WA Curriculum C grade in Science

(Desirable)- C grade in Year 10 Sports Science

## **Physics- List B**

In the Physics ATAR course students will learn how energy and energy transformations can shape the environment from the small scale, in quantum leaps inside an atom's electron cloud, through the human scale, in vehicles and the human body, to the large scale, in interactions between galaxies. Students have opportunities to develop their investigative skills and use analytical thinking to explain and predict physical phenomena. Students plan and conduct investigations to answer a range of questions, collect and interpret data and observations, and communicate their findings in an appropriate format. Problem-solving and using evidence to make and justify conclusions are transferable skills that are developed in this course.

<https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/science/physics>

**Pre-requisite-** Year 10 WA Curriculum B grade in Science (Course A)

Year 10 WA Curriculum B grade in Mathematics

## **ViSN**

### **Human Biology- List B**

The Human Biology ATAR course gives students a chance to explore what it is to be human - how the human body works, the origins of human variation, inheritance in humans, the evolution of the human species and population genetics. Through their investigations, students research new discoveries that increase our understanding of human dysfunction, treatments and preventative measures.

Practical tasks are an integral part of this course and develop a range of laboratory skills; for example, biotechnology techniques. Students learn to evaluate risks and benefits to make informed decisions about lifestyle and health topics, such as diet, alternative medical treatments, use of chemical substances and the manipulation of fertility.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/science/human-biology>

**Pre-requisite-** Year 10 WA Curriculum B grade in Science

### **Modern History- List A**

Studying the Modern History ATAR course enables students to become critical thinkers and helps inform their judgements and actions in a rapidly changing world. Students are exposed to a variety of historical sources, including government papers, extracts from newspapers, letters, diaries, photographs, cartoons, paintings, graphs and secondary sources, in order to determine the cause and effect, and the motives and forces influencing people and events. Through the process of historical inquiry, students are encouraged to question and evaluate historical sources; identify various representations and versions of history; use evidence to formulate and support their own interpretations; and communicate their findings in a variety of ways.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/humanities-and-social-sciences/modern-history>

**Pre-requisite-** Year 10 WA Curriculum B grade in HASS

Year 10 WA Curriculum B grade in English

## **Psychology- List B**

In the Psychology ATAR course students will be introduced to psychological knowledge which supports an understanding of the way individuals function in groups. Students learn about major psychological models and theories, and the methods used to conduct scientific investigations in the discipline of psychology. Students apply research methods and ethical principles as they analyse data to illustrate how empirical procedures are used to examine phenomena, such as memory, attention, attitudes, personality and group behaviour. Acquiring this foundation of scientific method and critical thinking is a valuable skill which students can apply throughout their study, work and everyday lives.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/science/psychology>

**Pre-requisite-** Year 10 WA Curriculum C grade in Science

## **Curtin UniReady**

UniReady is an 'alternate entry to university', run by Curtin University. Students complete 4 units over Year 11 and Year 12 and upon successful completion of these units, are awarded an ATAR of 70. This ranking can then be used to gain entry to particular courses at **Curtin University**.

Each unit below is taught by a school-based ViSN teacher, in line with **Curtin University** standards for delivery. As such, students considering this option should understand that they would be undertaking a university level course and will be assessed according to university standards.

Course Structure in the first year, Year 11 students complete 2 core (compulsory) units; Fundamentals of Academic Writing and Foundations of Communication. In Year 12 students select 2 elective units from: Introduction to Health Sciences, Introduction to Commerce, Introduction to Humanities, Applying Mathematics. For Year 12, students will select 2 of the units below.

### **Introduction to Humanities**

This unit explores the interrelationships of people with and within systems. Students will explore themes related to society, culture, environment and technology and their reciprocal impacts. The unit seeks to develop students understanding of self as part of diverse and complex systems viewed.

### **Introduction to Commerce**

This unit will provide an introduction to the fundamentals of economics, marketing, law, and accounting principles. The unit will focus on the basic concepts and techniques in accounting that apply to business; law with a business context; as well as giving attention to the basic principles relating to economics. Students will be shown how to apply basic economic, marketing, legal and accounting concepts to practical situations therefore shedding light on key commercial operations.

### **Introduction to Health Sciences**

This unit will provide students with a basic understanding of some of the human anatomy and physiology components of an undergraduate Health Sciences program. This includes an overview of the structure and function of human anatomy and physiology, focused on musculoskeletal, cardiovascular, respiratory, nervous, digestive, endocrine and immune systems. Human cell biology and homeostasis will also be investigated.

### **Applying Mathematics**

This unit aims to develop a core set of numeracy skills that will aid students in further study - particularly in Health Sciences and Business. Students will be introduced to a variety of mathematical concepts from basic numerical to statistical to financial, and to their real-life applications in Health Sciences and Business. The unit begins with numeracy skills before moving on to cover univariate statistics, bivariate statistics, algebra and functions.

**Course requirements-** Must get a C grade (English competency) in ATAR English in Year 11 and 12 and complete ATAR English in Year 11 & 12.

(Encouraged)- Mathematics Applications (dependent on course entry and unit prerequisites).

# General

## Religion and Life- List A

The Religion and Life General course provides students with opportunities to learn about religion and to explore the relationship between religion, society and individuals. Using a range of inquiry skills students develop an understanding of ways in which people discover, understand and express their religious beliefs. They also use these skills to explore one or more religions in detail, to analyse the role religion plays in human affairs and to explore issues of concern to religion.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/humanities-and-social-sciences/religion-and-life>

## English- List A

The English General course focuses on consolidating and refining the skills and knowledge needed by students to become competent, confident and engaged users of English in everyday, community, social, further education, training and workplace contexts. The course is designed to provide students with the skills to succeed in a wide range of post-secondary pathways by developing their language, literacy and literary skills. Students comprehend, analyse, interpret, evaluate and create analytical, imaginative, interpretive and persuasive texts in a range of written, oral, multimodal and digital forms.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/english/english2>

## English Foundation- List A

The English Foundation course aims to develop students' skills in reading, writing, viewing, speaking and listening in work, learning, community and everyday personal contexts. This course is for students who have not demonstrated the literacy standard in the OLN. Such development involves an improvement in English literacy, where literacy is defined broadly to include reading ability, verbal or spoken literacy, the literacy involved in writing, and visual literacy. Students undertaking this course will develop skills in the use of functional language conventions, including spelling, punctuation and grammar. Good literacy skills are required for comprehending and producing texts; for communicating effectively in a learning or working environment, or within a community; or for self-reflection; and for establishing one's sense of individual worth.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/english/english2>

### **Mathematics Essential- List B**

The Mathematics Essential General course focuses on using mathematics effectively, efficiently and critically to make informed decisions. It provides students with the mathematical knowledge, skills and understanding to solve problems in real contexts for a range of workplace, personal, further learning and community settings. This course provides the opportunity for students to prepare for post-school options of employment and further training.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/mathematics/mathematics-essential>

### **Mathematics Foundation- List B**

The Mathematics Foundation course focuses on building the capacity, confidence and disposition to use mathematics to meet the numeracy standard for the WACE. This course is for students who have not demonstrated the numeracy standard in the OLNA. It provides students with the knowledge, skills and understanding to solve problems across a range of contexts including personal, community and workplace/employment. This course provides the opportunity for students to prepare for post-school options of employment and further training.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/mathematics/mathematics-foundation>

## **Drama- List A**

The Drama General course focuses on drama in practice and aesthetic understanding as students integrate their knowledge and skills. They engage in drama processes such as improvisation, play building, text interpretation, playwriting and dramaturgy. This allows them to create original drama and interpret a range of texts written or devised by others by adapting the theoretical approaches of drama practitioners like Stanislavski and Brecht. Students' work in this course includes production and design aspects involving directing, scenography, costumes, props, promotional materials, and sound and lighting. Increasingly, students use new technologies, such as digital sound and multimedia. They present drama to make meaning for a range of audiences and adapt their drama to suit different performance settings. The focus in this course is primarily on ensemble performance and team work.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/arts/drama>

## **Food Science and Technology- List B**

The Food Science and Technology General course provides opportunities for students to explore and develop food-related interests and skills. Food impacts on every aspect of daily life and is essential for maintaining overall health and wellbeing. Students organise, implement and manage production processes in a range of food environments and understand systems that regulate food availability, safety and quality. Knowledge of the sensory, physical, chemical and functional properties of food is applied in practical situations. Students investigate the food supply chain and value-adding techniques applied to food to meet consumer and producer requirements. Principles of dietary planning, adapting recipes, and processing techniques, are considered for specific nutritional needs of demographic groups. Occupational safety and health requirements, safe food handling practices, and a variety of processing techniques, are implemented to produce safe, quality food products. This course may enhance employability and career opportunities in areas that include nutrition, health, food and beverage manufacturing, food processing, community services, hospitality and retail.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/technologies/food-science-and-technology>

## **Integrated Science- List B**

The Integrated Science General course enables students to investigate science issues in the context of the world around them. It encourages students to develop their scientific skills of curiosity, observation, collection and analysis of evidence, in a range of contexts. The multidisciplinary approach, including aspects of biology, chemistry, geology and physics, further encourages students to be curious about the world around them and assume a balanced view of the benefits and challenges presented by science and technology. Students conduct practical investigations that encourage them to apply what they have learnt in class to real-world situations and systems.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/science/integrated-science>

## **Materials Design and Technology- List B**

The Materials Design and Technology General course is a practical course. Students will be working with wood, with the design and manufacture of products as the major focus. Students have the opportunity to develop and practise skills that contribute to creating a physical product, while acquiring an appreciation of the application of a design process, and an understanding of the need for materials sustainability. Students will learn and practise manufacturing processes and technologies, including principles of design, planning and management.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/technologies/materials-design-and-technology>

## **Outdoor Education- List B**

Through interaction with the natural world, Outdoor Education aims to develop an understanding of our relationships with the environment, others and ourselves. The Outdoor Education General course focuses on outdoor activities in a range of environments, including bushwalking, sailing, climbing and orienteering. It provides students with an opportunity to develop essential life skills and physical activity skills, and an opportunity to develop a comprehensive understanding of the environment and develop a positive relationship with nature. The course also provides students with opportunities to develop skills that will enable them to pursue personal interests and careers in outdoor pursuits, environmental management, or eco-tourism.

Course link; <https://senior-secondary.scsa.wa.edu.au/syllabus-and-support-materials/health-and-physical-education/outdoor-education>

# **ViSN**

## **Business Certificate II/III**

When you complete the Certificate III in Business, you will have skills that employers are looking for, making you ideal for roles in data entry, customer service, accounts or as an office clerk. You will gain skills and knowledge in essential office structures and procedures, workplace organisation, customer service, workplace health and safety, desktop publishing, spreadsheets, creating electronic presentations, advertising and marketing and much more. The content is completed through a series of topics, each having a duration of a few weeks. With industry and government forecasting a strong demand for office workers in coming years, you will be ready for the work place or further Business and Administration Courses.