



**WOLLEMI  
COLLEGE**

**2026**

# **Senior Subject selection Information Booklet**



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# **Senior Subject selection Information Booklet**

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## Making a considered choice

As we commence Semester Two, it is now time for you all to begin thinking about what you would like to study next year. For the first time in your schooling, you now have a large say in what you will study. Instead of only selecting two electives, you will now choose your entire educational path.

You need to think very carefully before choosing your subjects; talk to your teachers, mentors, parents and even the current Year 11 and 12 students.

Read this booklet carefully, attend the subject selection evening and find out as much as you can about the subjects you may want to choose. Trust your teachers' advice. They are professionals, who have each taught hundreds of students over their careers and they are the biggest resource of experience that you have access to.

This is an opportunity for you to make the choices that are right and specific to you. Do not waste that opportunity or surrender your decision to your friends by putting their preferences above your own. Choose the subjects that interest you most. Consider your future career plans and research university courses that will lead you to where you want to go and use this research in the decision-making process also. Think about what you are good at and what you enjoy.

To help you decide which subjects are of interest to you, your teachers have shared some important information in this booklet and they are also available to discuss your choices with you if you have any questions. You also are encouraged to discuss your choices with your mentor and you should attend the Senior Subject Selection Evening after school on Tuesday 6th August.

Finally, please remember that in this process the more knowledge you have, the more confident you will feel about your choices.

Good Luck!  
Mr. Jacobson

Director of Teaching & Learning

***This booklet is intended to give you an overview of HSC subjects available as well as guide you in making the best decisions based on basic principles. You should make use of your teachers, parents, mentors, students, the UAC guide, and University websites to help you make your decision.***

# CHOOSING WISELY

## Interest

You are strongly encouraged to choose courses that you are genuinely interested in, and that you feel will be challenging but still within your ability level.

When considering interest, you should ask yourself the following questions:

- What is it about this course that I like?
- Will I still be interested in this course if none of my friends take it?
- Is this subject relevant to my potential university courses and future career paths?

## Challenge & Realism

Challenge and realism are two side of the same consideration. It is important that you stretch yourself beyond what you believe you are currently capable of, as this has proven to generate the greatest amount of academic progress.

However, it is also important that your aspirations are realistic. Taking on too great a challenge can easily overwhelm you and weaken your confidence. These challenges will only grow when you consider the combination of expectations from all your subjects.

When considering challenge and realism you should ask yourself the following questions:

- What are the challenges with this course?
- Does this course require a lot of work outside of school?
- Do my course choices provide a balanced workload when considered together with all my subjects?
- Does this course fit well with my personal strengths and weaknesses?

## Early Entry to University

Many Australian universities offer early entry pathways to university courses in 2028 based on the work students have done in year 11 and 12 both at school and in their broader lives. Making smart and informed decisions in year 11 mean that you will be in the right course where you are positioned to succeed and this will reflect well on any possible early entry University application.

## The Process

### Term 3 – Week 1

Students read and discuss the Senior subject selection booklet

#### What to do

You are advised to set aside some time and discuss the information in this booklet with your parents, mentor and relevant teachers. It is recommended that you read the information carefully and work through the 'Choosing wisely' process making a list of any questions that arise.

#### Outcome

From this discussion you should have a good idea of which courses you are interested in studying and have a list of questions to ask the subject teachers.

### Term 3 – Week 3

Senior Subject Selection Evening and Fair – Tuesday 5th August 7pm

#### What to do

You will have the opportunity to speak with the teachers of senior subjects and ask questions.

#### Outcome

At the end of this process you should have reached a final decision about which courses you would like to study next year.

You will receive an email from EdVal where you can enter your subject choices in order of preference.

- Speak to your parents, mentor, teachers, and others who can guide you in your subject selection.
- Decide if you will undertake any external subjects.
- Confirm your choices and submit them through EdVal.
- Changed your mind? It's okay you can still swap subjects until the end of term 4 Year 10 - but no more changes will be made after term 4.

### Term 3 - Friday Week 4

You will enter your subject choices into EdVal by Friday 3.25pm.

*PLEASE NOTE: You will be automatically placed in Mathematics and English classes based upon your yr10 marks and feedback from your teacher.*

### Term 3 - Week 10

Mr. Jacobson will endeavour to make the best combination of subject lines to suit as many of you as he can. You will be allocated classes according to the timetabled lines. You will receive confirmation of your courses for 2025.

## Minimum Standards Testing

Any student wishing to achieve HSC credentials must have met a minimum standard in Reading, Writing and Numeracy. This is achieved by ensuring all students sit minimum standards online testing in Reading, Writing and Numeracy and that they achieve a level 3 or greater.

Students will take these online tests in Term 3 in Year 10.

Students who do not manage to achieve a level 3 or 4 in these tests will have the ability to make future attempts in both Year 11 & Year 12 to achieve these levels. In fact students can continue to attempt the minimum standards online testing a further four more times each year for five years after commencing their HSC course.

From 2020, only students who meet the HSC minimum standard will receive a HSC credential. Despite this, students do not need to meet the HSC minimum standard to:

- study HSC courses
- sit HSC exams
- receive HSC assessment and exam results
- receive an ATAR
- receive a Record of School Achievement.

The aim of these, together with the NSW Literacy and Numeracy Strategy, is part of an effort to improve the literacy and numeracy outcomes for students.

**For further information please refer to the NESA website**

## All My Own Work

**HSC: All My Own Work** is an online program of study to help HSC students follow the principles and practices of good scholarship and avoiding plagiarism. This includes understanding, valuing and using ethical practices when locating and using information as part of their HSC studies.

Students who have completed the program will also know about penalties for cheating and how to avoid malpractice when preparing their work for assessment.

To be eligible for the HSC certification, students must complete HSC: All My Own Work (or its equivalent) before they submit any work for Preliminary (Year 11) or HSC (Year 12) courses, unless they are only entered for Year 11 and Year 12 Life Skills courses.

Year 10 students will complete this online program during school in Term 3 and will be organised by Mr. Jacobson. Further information will be shared closer to the time.

**For further information please refer to the NESA website**

## AUSTRALIAN TERTIARY ADMISSIONS RANK (ATAR)

Currently any student in NSW wishing to study at university must meet the requirements to achieve an ATAR. A student's ATAR is not generated by NESA and is separate from their HSC. It is a calculated ranking out of 100 which is used by NSW Universities to help allocate students to courses.

The ATAR is NOT a mark out of 100, nor an average of your marks; rather, it is a number that indicates where you performed overall in your HSC compared to everybody else in NSW who started Year 7 when you did.

### How the ATAR is calculated

- Using your final school moderated mark (which is a product of combining your school results and your HSC results) and scaling those marks in relation to the performance of the state cohort.
- The University Admissions Centre takes the HSC marks you received and scaling them.
- UAC calculates your best ten units, including two compulsory units of English, ranking you against all other students in the state.

ATAR explained by Sydney University:  
<https://www.youtube.com/watch?v=eyVivqAdzcQ>

# STUDY 12 for 12!

## Our '12 for 12' Recommendation

While the minimum units a student must study in their HSC is 10, at Wollemi we strongly recommend students start their HSC course studying 12 units, and drop extra units if needed later on.

A student who studies 11 or 12 units will have insurance against unexpected troubles in Year 12, ensuring they do not have to count their worst units and allowing them 'more shots at goal' for their top 10.

The main argument for dropping to 10 units is that students will have less classwork and more time in which to do it with study periods. In many ways this is a false economy.

It is our recommendation, however, that students consider studying 12, or even 11 units in their HSC to help maximise their ATAR.

Below are some of the great reasons to study 11, 12 or even 13 units in your HSC year.

- **Insurance:** the HSC is a one-shot deal so we want to make sure our student backs are well covered.
- **Insurance against difficulty:** students in Year 11 rarely predict how hard a Year 12 subject may be. If a subject proves particularly difficult in Year 12, or if a student takes ill on the morning of an exam, that poor performance will have a less adverse effect on his ATAR and HSC because he has extra units as insurance.
- **Insurance against unexpected mishaps:** it provides 'insurance' against mishaps - for example, if a student is found to be guilty of misconduct, or of not making a serious attempt in just one HSC exam or HSC assessment task, he necessarily risks his HSC if he has only studied 10 units.
- **Insurance against subjects performing poorly:** It provides 'insurance' against subjects which may scale poorly or contribute poorly to overall ATAR.
- **Improves time management:** having too much spare time can lead to more distractions, and less effective schoolwork done.
- **Building on the good work of year 11:** it continues the work schedule and routines you established in year 11, rather than forcing you to construct an entirely new one.
- **Polishing vital academic skills:** it allows you to further polish academic skills in your top 10 in units that you do not need to count towards their ATAR.
- **Unexpected success is normal in the HSC:** you may collect 'windfall marks' from a subject you become stronger in as you go through year 12.
- **Top students across the state do this:** historically, the majority of top-performing HSC students study more than 10 units for these reasons.

# SUBJECT INFORMATION

## YEAR 11 - 2 Unit Board Developed Courses

### English

**Please note you will be placed in Advanced or Standard depending on your Year 10 English marks. You need a mark of 80% or higher to do Advanced and Extension English.**

- Advanced
- Standard
- Extension 1 (Must be studying Advanced English)

### Mathematics

**Please note you will be placed in Advanced or Standard depending on your Year 10 Mathematics marks. You need a mark of 80% or higher to do Advanced and Extension Mathematics.**

- Advanced
- Standard
- Extension 1 (Must be studying Advanced Mathematics)

### Biology

### Business Studies

### Chemistry

### Design & Technology

### Economics

### Geography

### History - Ancient

### History - Modern

### Music 1

### Health and Movement Science

### Physics

### Visual Arts

In addition to the Year 11 and 12 patterns of study, Religion is compulsory at Wollemi. It is a school-based subject only, mainly with input and discussion, and does not include assessments. Religion does not contribute any units towards a student's HSC pattern of Study.

# SUBJECT INFORMATION

## YEAR 12 - 2 Unit Board Developed Courses

To qualify for the Higher School Certificate students must satisfactorily complete a Year 12 pattern of study comprising at least 10 units, which must include:

- at least six units from Board Developed Courses;
- at least two units of a Board Developed Course in English;
- at least three courses of two units value or greater (either Board Developed or Board Endorsed Courses); and
- at least four subjects.

To satisfy pattern of study requirements for the Higher School Certificate, a student may count up to seven units of Science in Year 12.

**You cannot study a subject in Year 12 that you have not studied in Year 11.**

### English

- Advanced
- Standard
- Extension 1 (Must be studying Advanced English)

### Mathematics

- Advanced
- Standard
- Extension 1 (Must be studying Advanced Mathematics)
- Extension 2 (Must be studying Extension 1 Mathematics)

### Biology

### Business Studies

### Chemistry

### Design & Technology

### Economics

### Geography

### History - Ancient

### History - Modern

### Music 1

### Health and Movement Science

### Physics

### Visual Arts

## What is covered?

The Biology course builds on the knowledge and skills of the study of living things found in the Science Stage 5 course. Biology explores the diversity of life from a cellular to a biological systems level, examining the interactions between living things and the environments in which they live. The course explores the application of Biology and its significance in finding solutions to health and sustainability issues in a changing world. Students will develop scientific investigative skills and will be provided with opportunities to design and conduct biological investigations.

### Year 11

- Module 1- Cells as the Basis of Life
- Module 2- Organisation of Living Things
- Module 3- Biological Diversity
- Module 4- Ecosystem Dynamics

Depth Study- 15 Hours of in class investigation and research within modules 1 - 4

### Year 12

- Module 5- Heredity
- Module 6- Genetic Change
- Module 7- Infectious Disease
- Module 8- Non-infectious Disease and Disorder

Depth Study- 15 Hours of in class investigation and research within modules 5 - 8

## Why study the course?

Biology is assumed knowledge for a many undergraduate tertiary science, medical and engineering courses across all institutions

You will receive a deep understanding and appreciation of living things from organelles up to populations, how they interact and how we can use them in technological applications.

Develop critical thinking and scientific skills

Be equipped to understand the current Biotechnological age.

## What are the challenges?

The HSC Biology course is content heavy. To succeed in the course, you must understand a broad range of detailed terminology, as well as understand various complex biological processes. You will be challenged to apply these concepts to novel scenarios, and so it is important that your written communication skills are sound. There is also a big focus on the analysis of both written information, as well as numerical data.

## In summary

- There is a broad range of detailed and terminology heavy content
- Novel and complex biological concepts
- Biological investigations and practical tasks
- Scientific report writing and analysis
- Graph construction and analysis
- Applying knowledge to novel scenarios in the HSC exam
- Large depth studies as part of school based assessments

## Course Prerequisites

- An A or B in Year 10 Science
- Consistently sound performance in the relevant Year 10 Science Topic Tests
- A genuine interest in Biology

## Potential career options

Many university courses such as electrical engineering, pharmacy, and veterinary medicine have recommended the study of Biology.

Though the study of Biology is not necessary to enter these subjects, it will be beneficial, and it is something students should consider when choosing their subjects: Medicine, Veterinary science, Research scientist, Pharmacologist, Biologist, Ecologist, Nature conservation officer, Biotechnologist, Forensic scientist, Government agency roles to name a few.

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## What is covered?

### Year 11

- The Nature of Business
- Business Management
- Business Planning
- How to plan, organise and manage a business

### Year 12

- Operations
- Marketing
- Finance
- Human Resources
- Detailed study of successful businesses and strategies to operate a successful business.

## Why study the course?

Business Studies allows students to gain an appreciation for the role businesses play in our society, from the perspective of various stakeholder groups including business owners, employees, consumers and even the Government. Studying business provides practical skills that can be applied in almost all career paths. You will learn personal financial management as well as study the strategies that have made businesses successful in an ever changing business environment.

## What are the challenges?

There is a lot of content to learn as well as two business reports in the HSC exam, which are extended responses accounting for 40% of the total mark.

## Course Prerequisites

Students who studied Commerce in Years 9 & 10 would certainly find this helpful. However, there are no official pre-requisites and all concepts will be taught from the ground up.

## Potential career Options

Entrepreneur, accounting and finance, sales and real estate, management, marketing, human resources, financial planning, business analyst, economist etc.

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## What is covered?

The course covers fundamental concepts of Chemistry, spanning from conceptions of matter to the application of chemical concepts.

Chemistry covers fundamental concepts of Chemistry, spanning from conceptions of matter to the application of chemical concepts. This course requires students to develop strong practical and research skills, with a focus being placed on hands-on laboratory experiments. It also provides much emphasis on problem solving, deep understanding of chemical reactions, writing chemical equations and analysing data.

This Chemistry course presents a stepping stone for those considering tertiary studies in Engineering and any Science related courses. Skills gained from this course are also applicable to Mathematics, Technology, and any course with a focus on problem solving and investigation.

### Year 11

- Module 1 - Properties and Structure of Matter
- Module 2 - Introduction to Quantitative Chemistry
- Module 3 - Reactive Chemistry
- Module 4 - Drivers of Reactions

Depth Study - 15 Hours of in class investigation and research within modules 1 – 4

### Year 12

Students develop knowledge and understanding of the fundamentals of chemistry and the trends and driving forces in chemical interactions

- Module 5 - Equilibrium and Acid reactions
- Module 6 - Acid/Base Reactions
- Module 7 - Organic Chemistry
- Module 8 - Applying Chemical Ideas

Depth Study - 15 Hours of in class investigation and research within modules 5 – 8

Students develop knowledge and understanding of equilibrium, acid reactions and the applications of chemistry.

## Why study the course?

- Chemistry is assumed knowledge for a many undergraduate tertiary science, medical and engineering courses across all institutions
- You will receive a deep understanding of materials, their interactions and their applications
- Critical thinking and scientific skills are developed extensively

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## What are the challenges?

- Broad range of detailed content
- Novel and complex chemical concepts
- Calculation questions requiring multiple steps and advanced mathematical skills
- Chemical equation writing and analysis
- Chemical investigations and practical tasks
- Scientific report writing and analysis
- Graph construction and analysis

## Course Prerequisites

- High achievement in Year 10 Science Assessments and relevant Topic Tests
- Strong performance in Year 10 Advanced Mathematics and planning to study Advanced Mathematics in Year 11

## Potential career Options

Medicine, Analytical chemist, Chemical engineer, Forensic Scientist, Geochemist, Hazardous waste chemist, Materials scientist, Pharmacologist, Toxicologist

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## What is covered?

### Year 11

The Preliminary Design & Technology Course will include TWO practical projects.

**Project 1** is a collaborative task in which students will work as a team to design and realise an electric powered vehicle. This project will include an individual Portfolio to document your contribution to the project.

**Project 2** is an individual design project in which students address the need for clean drinking water for communities in developing countries. This project will include a digital presentation and design solution.

In addition to the practical projects, students will be introduced to a broad range of theory components

### Year 12

The HSC Design & Technology course includes an individual Major Design Project and Portfolio, in which you will develop and realise a design solution to a specific need or opportunity of your choice. The Major Design Project may take the form of a product, system or environmental design.

To record your design process, you will complete a detailed Design Portfolio. The portfolio will include:

#### Project proposal and project management

identification and exploration of the need, areas of investigation, criteria to evaluate success, action, time and finance plans.

#### Project development and realisation

Design theory and practice, Evidence of creativity, research, development and evaluation of ideas, study of practices in industrial and commercial settings, production techniques, communication, safe working practices, selection and use of resources.

#### Project evaluation

criteria for evaluation, analysis of evaluation, impact of the major design project on the individual, society and the environment.

In addition to the Major design project, you will also cover a range of theory components, relating to Innovations and Emerging Technologies. As part of this study, students will complete a case study of an innovation which includes reference to the above factors.

## Why study the course?

Completing your own design project is very challenging, but also very rewarding. As part of this individual design project you will develop:

- knowledge and understanding about design theory and design processes in a range of contexts
- knowledge, understanding and appreciation of the interrelationship of design, technology, society and the environment
- creativity and an understanding of innovation and entrepreneurial activity in a range of contexts
- skills in the application of design processes to design, produce and evaluate quality design projects that satisfy identified needs and opportunities;
- skills in research, communication and management in design and production
- knowledge and understanding about current and emerging technologies in a variety of settings

## What are the challenges?

- Time management is a key challenge in this course, especially at HSC level
- A high standard of personal management is critical
- You will be required to raise your own finances for your HSC project
- You will be required to complete a very detailed design Portfolio of up to 80 pages. This requires weekly commitment
- You will likely need to commit to many hours of work outside of class time to complete your design project
- You will require a high level of competence in practical skills, use of tools and techniques and the manipulation of materials and resources
- You will be required to develop your own creative solutions to solve many problems
- You will need to conduct independent research and testing of ideas
- Do not undertake this course if you have poor time management skills, lack practical skills, do not like making your own decisions, lack creativity or problem solving skills or if you are not prepared to fund your own HSC project

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## What is covered?

Economics provides understanding for students about many aspects of the economy and its operation that are frequently reported in the media. It investigates issues such as why unemployment or inflation rates change and how these changes affect individuals in society. Economics develops students' knowledge and understanding of the operation of the global and Australian economy. It develops the analytical, problem-solving and communication skills of students. There is a strong emphasis on the problems and issues in a contemporary Australian economic context within the course.

### Year 11

The Preliminary course is more microeconomic in nature. It focuses on aspects of economic behaviour predominately around individuals and businesses, with some small focus on the government toward the end of the course.

- Introduction to Economics: The nature of economics and the operation of an economy
- Consumers and Business: The role of consumers and business in the economy
- Markets: The role of markets, demand, supply and competition
- Labour Markets: The workforce and role of labour in the economy
- Financial Markets: The financial market in Australia, including the share market
- Government in the Economy: The role of government in the Australian economy

### Year 12

The HSC course is more focused on the management of a country and is therefore more macroeconomic in nature. There is a particular focus on the Australian economy and its operation in the globalised world.

- The Global Economy: Features of the global economy and globalisation
- Australia's Place in the Global Economy: Australia's trade and finance
- Economic Issues: Issues including growth, unemployment, inflation, wealth and management
- Economic Policies and Management: The range of policies to manage the economy

## Why study the course?

The HSC Economics course is distinctive as there are a range of issues that the course investigates and skills that it develops. A student who has completed the Preliminary and HSC courses should have knowledge and skills enabling them to:

- Comprehend the background and implications of contemporary economic issues
- Discuss appropriate policies to solve economic problems and issues

- Understand what a change in interest rates, share values or the value of the Australian dollar means to individuals and the economy
- Identify fluctuations in the global and Australian economies and their likely effects on business
- Understand reasons for changes in employment patterns
- Identify, using economic thinking, appropriate strategies to protect the natural environment.

Studying Economics provides students with knowledge, understanding and skills that form an excellent foundation for a range of courses at university and other tertiary institutions. Some of these courses include business, accounting and finance, media, law, marketing, employment, relations, tourism, history, geography and environmental studies.

### What are the challenges?

There are a variety of challenges that both the Preliminary and HSC Economics courses present. These include:

- Both the Year 11 & 12 courses are very content heavy
- There is a great deal of theory work throughout the course. The Preliminary course in particular is highly theoretical, with more real-world application coming through in the HSC course
- A solid knowledge base of mathematic fundamentals is required to be in order to do well in this course.
- A great deal of content in Economics is interrelated. As such, establishing strong foundations of knowledge in all units is essential for success in these courses.

### Course Prerequisites

None – Although English Advanced will be a real advantage due to the quantity of essays required throughout the course and in the final exams.

### Potential career Options

Studying economics can lead to careers in:

- share, finance or commodities markets
- business
- economic forecasting
- banking
- insurance
- tourism
- resource management
- property development and management
- government
- environmental management
- town planning
- foreign affairs & economic policy development

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## Senior English

**Please note you will be placed in Advanced or Standard depending on your Year 10 English marks. You need a mark of 80% or higher to do Advanced and Extension English.**

## English Standard

### What is covered?

Year 11

- Common Module: Reading to Write
- Contemporary Possibilities
- Close Study of Literature

Year 12

- Common Module: Texts and Human Experiences
- Module A: Language, Identity and Culture
- Module B: Close Study of Literature
- Module C The Craft of Writing

### Why study the course?

English is compulsory. However, those students who are very strong readers, who like writing and who have the internal motivation to extend themselves by working independently outside of class time should consider studying Ext I and some Ex II- this should be discussed with the English subject teacher.

### What are the challenges?

The 2 English units whether you choose Standard or Advanced will be counted by NESA. In this sense, English is the most important subject on the syllabus.

### Course Prerequisites

None

### Potential career Options

English students who study Advanced or Ext English may look to pursue careers in journalism/ communications, teaching, law, speechwriting, blogger, author, librarian, HR, etc.

## English (Advanced)

Please note – you need a mark of 80% or higher in year 10 to be placed in this course.

### What is covered?

#### Year 11

- Common Module: Reading to Write
- Narratives that Shape our World
- Critical Study of Literature

#### Year 12

- Common Module: Texts and Human Experiences
- Module A: Textual Conversations
- Module B: Critical Study of Literature
- Module C The Craft of Writing

### Why study the course?

English is compulsory. However, those students who are very strong readers, who like writing and who have the internal motivation to extend themselves by working independently outside of class time should consider studying Ext I and some Ex II- this should be discussed with the English subject teacher.

### What are the challenges?

The 2 English units whether you choose Standard or Advanced will be counted by NESA. In this sense, English is the most important subject on the syllabus.

The challenges for those who choose Advanced English is the study of Shakespeare. Studying complex texts and being required to write extended responses with a sustained analysis under exam conditions is the primary challenge of Advanced English.

### Course Prerequisites

The prerequisite for entering Advanced English is a mark of 80% or higher in year 10 or a recommendation from your Year 10 English teacher to the Head of English.

### Potential career Options

English students who study Advanced or Ext English may look to pursue careers in journalism/ communications, teaching, law, speechwriting, blogger, author, librarian, HR, etc.

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## What is covered?

#### Year 11

Unit 1: Geographical investigation.  
Unit 2: Earth's natural systems  
Unit 3: People, Patterns and Processes  
Unit 4: Human-Environment Interactions  
Topographic skills

#### Year 12

Unit 1: Urban and Rural places  
Unit 2: Ecosystems and Global Biodiversity  
Unit 3: Global Sustainability  
Topographic skills

### Why study the course?

Geography teaches us to recognise spatial distributions at all scales and to understand the complex connectivity of people and places.

- To be able to make sensible judgements about matters involving relationships between the physical environment and society.
- To understand basic physical systems that affect everyday life (e.g. earth-sun relationships, water cycles, and wind and ocean currents).
- To appreciate Earth as the homeland of humankind and provide insight for wise management decisions about how the planet's resources should be used.

### What are the challenges?

Students must be competent in writing extended responses with a sound understanding of mathematics

### Course Prerequisites

Firstly, an enthusiasm for the subject is essential, as is an ability to process large amounts of written material.

Year 10 students wishing to do Geography should have a sound understanding of Intermediate Mathematics which provides assistance in understanding Geography skills.

### Potential career Options

Climatology and meteorology  
Conservation, heritage and land management  
Coastal, marine and hydrographic analysis  
Geographic information systems (GIS)  
Mapping and cartography  
Natural resource management and agriculture, Planning

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## What is covered?

### Year 11

This course introduces students to Ancient History by helping them understand what it is and how it works. Students learn key historical skills, then apply them through case studies. A new part of the syllabus is called “Features of Ancient Societies,” where students explore specific aspects of different ancient civilisations in detail. They can choose from a wide range of civilisations and topics, rather than being limited to just a few. A major part of the course is a historical investigation, where each student chooses their own topic and creates a project based on a personal interest..

Examples of Case Studies include:

- List A: Case studies from Egypt, Greece, Rome, Celtic Europe
- List B: Case studies from Australia, Asia, the Near East, the Americas
- Students study one case study from List A and one from List B.
- Students have the choice of studying one feature across two societies or one feature per society.

### Year 12

In Year 12 students’ study 4 topics.

- Section 1: Is a study of Pompeii and Herculaneum, two Italian cities which were destroyed by the eruption of Mount Vesuvius in 79 AD and gives students the opportunities to see how archaeology as a discipline has developed over time.
- Section 2: This is a study of an ancient society— in this case, the mighty, war-based society of Sparta. Through a study of its customs and traditions, students unearth the motivations behind this society geared for war.
- Section 3: This is a personality study of a famous historical figure. We study Julius Caesar, arguably one of the most important figures in Western civilisation, focusing on his rise to prominence, his place in Rome, and his downfall.
- Section 4: This is a study of a historical period of great significance. For this section, we study the great civilisation of Rome and the downfall of the Roman Republic. The advantage of studying this period is that there is significant overlap with the study of Julius Caesar, which helps reduce the amount of work you will need to do..
- Section 3: Is a personality study of a famous historical figure. We study Julius Caesar arguably one of the most important figures in western civilisation and his rise to prominence, his place in Rome and his downfall.
- Section 4: Is a study of a historical period of great significance. For this period, we study the great civilisation of Rome and the downfall of the Roman Republic. The advantage to studying this period is there is significant overlap with the study of Julius Caesar and so this reduces the amount of work you will need to do.

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## Why study the course?

Ancient History is awesome and is full of every conceivable aspect of what makes life interesting. In studying Ancient History, we look at wars, betrayal, backstabbing, power struggles and powerful, ambitious men and women.

- You will be able to see how modern people are no different from the people of the past and gain a greater appreciation for the many cultures that have influenced our own development.
- You will develop critical thinking ability which will help you in many aspects of your life long after you have left Wollemi.

## What are the challenges?

- There is a fair amount of reading to do, so If you do not enjoy reading then Ancient History may not be for you.
- There will be lots of essay writing to do, so if this is not your strength or you do not like writing them then Ancient History may not be for you.
- You will need to revise regularly, there is a lot of content and you need to be able to make the connections between the actions of key people and significant events.

## Course Prerequisites

None, just a love of history and discovering new ideas

## Potential career Options

- History Teacher: A study of history provides the foundational knowledge for a career in teaching.
- University Lecturer: Similar to teaching, studying history gives you the background needed for a career in academia.
- Archaeologist: The basic skills learned in history, such as analysing sources and interpreting the past, are essential for archaeologists. You will also explore where a career in archaeology can take you.
- Museum Curator: Museum curators need a strong background in history to prepare exhibitions and preserve artefacts from the past.
- Spy: The critical thinking skills and ability to analyse and filter important information are highly valued in intelligence and spy work.
- Police Detective: The skills you develop in history—such as asking the right questions and solving problems—are at the heart of what police detectives do.
- Researcher: The strong research skills developed through studying history are useful in many careers that require finding and evaluating information.
- Tourism: The knowledge you gain about historical events and locations provides a strong foundation for a career in tourism.

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## What is Modern History?

Modern History usually begins with the French Revolution and follows the story of humanity through to the present day. This is one of the most dramatic and important periods in human history. The course covers a wide range of regions—including Europe, Asia, and Africa—and major events that have shaped the modern world.

You will study big topics like the Holocaust and the assassination of John F. Kennedy, and while the focus is mostly on the 20th century, it also includes key parts of the 19th and 21st centuries.

## Why Study Modern History?

Studying Modern History helps you:

- Become a better researcher
- Learn to tell the difference between true history and “fake history”
- Improve your writing, speaking, and multimedia presentation skills
- Think critically and form strong arguments
- Students at Wollemi have done extremely well in Modern History, often scoring above the state average.

## Year 11

### Investigating Modern History: The Nature of Modern History

You’ll start with a case study that explores big questions about how history works and how we understand the past.

Examples studied at Wollemi have included:

- The Holocaust
- Albert Speer
- World War One

### Case Studies:

You’ll study two in-depth case studies:

- One from Asia, the Pacific, Africa, the Middle East, or Central/South America
- One from Europe, North America, or Australia

Examples studied at Wollemi include:

- Meiji Japan
- Romanov Russia
- The Cuban Revolution

### HISTORICAL INVESTIGATION:

This is your chance to choose your own topic and research it in depth—like a mini thesis.

Examples of past topics:

- A grandfather’s experience as a slave labourer in WWII
- A family’s experience in the Sri Lankan Civil War
- The fall of Ferdinand Marcos in the Philippines
- The impact of WWI and WWII on literature, philosophy, and art

### The Shaping of the Modern World

You’ll explore World War I and how it shaped the modern world, including its causes and long-term consequences.

## Year 12

In Year 12 students study FOUR (4) main sections:

### Section 1: Core Study: Power and Authority in the Modern World (1919–1946)

You’ll look at how fascist and totalitarian governments rose after World War I, especially focusing on Nazi Germany.

Topics include:

- Conditions after WWI
- Rise of Hitler
- Life in Nazi Germany
- How WWII began

### National Study: Russia and the Soviet Union (1917–1941)

You’ll study the history of the Soviet Union between the Russian Revolution and WWII.

Topics include:

- Bolsheviks taking power
- Stalin’s rise to power
- What life was like under Stalin
- Soviet foreign policy

### Section 3: Peace and Conflict

Choose one major conflict of the 20th century and study it in depth.

Options at Wollemi have included:

- Conflict in Indochina (Vietnam, Cambodia, Laos)
- Decolonisation of Indochina
- The Vietnam War
- Spread of the conflict across the region
- Conflict in Europe
- Causes of World War II
- Important battles like Blitzkrieg, Stalingrad, and the war in North Africa
- Why the Allies won

### Section 4: Change in the Modern World

You’ll explore one major political or social change from the 20th century.

Options at Wollemi have included:

- The Nuclear Age (1945–2011)
- Use of atomic and nuclear weapons
- Efforts at nuclear disarmament
- Risks and benefits of nuclear power
- Apartheid in South Africa (1960–1994)
- How apartheid worked
- Resistance movements and leaders like Nelson Mandela
- Government repression
- Why and how apartheid ended.

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## Senior Mathematics

*Please note you will be placed in Advanced or Standard depending on your year 10 Mathematics course and marks.*

### Mathematics (Standard 2)

#### What is covered?

##### Year 11

Topic: Algebra  
Topic: Measurement  
Topic: Financial Mathematics  
Topic: Statistical Analysis

##### Year 12

Topic: Algebra  
Topic: Measurement  
Topic: Financial Mathematics  
Topic: Statistical Analysis  
Topic: Networks

#### Why study the course?

Mathematics Standard students use mathematics to make informed decisions in their daily lives. Students develop understanding and competence in mathematics through real-world applications. These skills can be used in a range of concurrent HSC subjects.

#### What are the challenges?

Networks, Algebra and Statistical Analysis tend to be the more challenging components of the course.

#### Course Prerequisites

None.

#### Potential career Options

In Mathematics Standard 2 students extend their mathematical skills beyond Stage 5 without the in-depth knowledge of higher mathematics that the study of calculus would provide. This course prepares students for a wide range of educational and employment aspirations, including continuing their studies at a tertiary level.

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## Mathematics (Advanced)

What is covered?

##### Year 11

Topic: Functions  
Topic: Trigonometric Functions  
Topic: Calculus  
Topic: Exponential and Logarithmic Functions  
Topic: Statistical Analysis

##### Year 12

Topic: Functions  
Topic: Trigonometric Functions  
Topic: Calculus  
Topic: Financial Mathematics  
Topic: Statistical Analysis

#### Why study the course?

It enables students to develop their knowledge, understanding and skills in working mathematically and in communicating concisely and precisely provides opportunities for students to consider various applications of mathematics in a broad range of contemporary contexts through the use of mathematical modelling and use these models to solve problems related to their present and future needs

provides opportunities for students to develop ways of thinking in which problems are explored through observation, reflection and reasoning provides a basis for further studies in disciplines in which mathematics and the skills that constitute thinking mathematically have an important role provides an appropriate mathematical background for students whose future pathways may involve mathematics and its applications in a range of disciplines at the tertiary level.

#### What are the challenges?

Calculus and trigonometry tend to be the more challenging components of the course. Calculus involves many formal proofs that students often struggle with. Both these units involve complex and abstract components.

#### Course Prerequisites

Year 10 Advanced Mathematics (B Grade or above)

#### Potential career Options

Engineering, Finance/Accounting, Teaching (maths) and Computer Programming are just a few of the many potential careers that would require Advanced Mathematics.

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## Music 1

### What is covered?

#### Year 11

Topic 1: Music for Large Ensembles (Term 1)  
Topic 2: Music for Small Ensembles (Term 2)  
Topic 3: Music of a Culture

#### Year 12

Topic 1: Australian Music (Term 1)  
Topic 2: Music for Radio, Film, Television and Multimedia (Term 2)  
Topic 3: An Instrument and its Repertoire (Term 3 & 4)

### Why study the course?

Become capable of performing at a professional level, honing practical skills in a variety of settings. Analytical skills will also become finely tuned so that you are capable of performing a number of different roles within the music industry as a professional.

### What are the challenges?

Developing new skills and technical fluency will take time and commitment. You will need to practice your practical and analytical skills regularly so that you are highly proficient in a variety of areas.

### Course Prerequisites

- Must either sing or play an instrument.
- Must have completed Mandatory Stage 4 Music

### Potential career Options

Music production & engineering, film scoring, music education, music therapy, electronic production and design, composing, performing musician, music management, commercial production, and much more.



## Music 2

### What is covered?

#### Year 11

Topic 1: Music 1600 – 1900 (Terms 1 & 2)  
Topic 2: Music of a Culture (Term 3)

#### Year 12

Topic 1: Music of the Last 25 Years (Australian Focus) (Terms 1 & 2)  
Topic 2: (Term 3 & 4) 1900 - 1945

### Why study the course?

You will become highly proficient in a wide variety of areas, including performing, analysis, composition and transcription. With this range of skill, your career and higher education options will be more diverse, and open to more selective environments.

### What are the challenges?

Each of the studied areas are more intense than the Music 1 course, and therefore require a greater commitment in effort and time for you to be successful. Your assessments are more diverse than the music 1 course, with more requirements for the HSC.

### Course Prerequisites

Must be proficient on at least one instrument (or vocals), and have basic singing skills. Must have completed stage 5 music.

### Potential career Options

Music production & engineering, film scoring, music education, music therapy, electronic production and design, composing, performing musician, music management, commercial production, and much more.

#### For more information

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## What is covered?

### Year 11

The Year 11 course comprises 4 components. Students are required to study all 4 components of the course.

- Health for Individuals and Communities (40 hours)
- The Body and Mind in Motion (40 hours)
- Collaborative Investigation (20 hours)
- Depth Studies (minimum of 2) (20 hours)

### Year 12

The Year 12 course comprises 3 components. Students are required to study all 3 components of the course.

- Health in an Australian and Global Context (45 hours)
- Training for Improved Performance (45 hours)
- Depth Studies (minimum of 2) (30 hours)

## Why study the course?

Studying Health & Movement Science in Year 11 and 12 helps students understand the importance of physical activity and health. It teaches them how the body works and responds to exercise, promoting a healthy and active lifestyle. Students gain valuable skills in analysing movement, improving performance, and understanding the role of nutrition and psychology in sports and health. This knowledge prepares them for careers in health, fitness, and sports, and helps them make informed choices about their own wellbeing.

- Anyone can choose to study HMS.
- Students who have also studied the elective Physical Activity & Sports Studies elective in years 9-10 could have some background knowledge that will help them in the stage 6 HMS course.
- There are no prerequisites to study HMS in Year 11 & 12.
- There is an HSC exam for HMS

## What are the challenges?

- Brand New Course (Some brand new content)
- Content heavy, predominantly short answer and extended response style questions.
- Requires a lot of memory work, including the ability to name and define the function of bones and muscle groups.

## Course Prerequisites

None

## Potential career Options

This course may be beneficial for careers in areas such as: Sports Medicine, Recreation, Sports administration, The fitness industry, Personal training, Fitness leadership, Coaching, Professional sporting career, Teaching, Sports science, Health Care, Injury rehabilitation and Event management

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## What is covered?

The Physics Stage 6 Syllabus involves the study of matter and its motion through space and time, along with related concepts that include energy and force. Physics deals with the study of light and electromagnetic motors from nuclear particles and their interactions up to the size and age of the universe. This allows students to better understand the physical world and how it works, appreciate the uniqueness of the universe, and participate in navigating and influencing the future.

### Year 11

- Module 1- Kinematics
- Module 2- Dynamics
- Module 3- Waves and Thermodynamics
- Module 4- Electricity and Magnetism

Depth Study- 15 Hours of in class investigation and research within modules 1 – 4

**NOTE: The Preliminary course contains content that is considered as-  
sumed knowledge for the HSC course.**

### Year 12

Module 5- Advanced Mechanics

Module 6- Electromagnetism

Module 7- The Nature of Light

Module 8- From the Universe to the Atom

Depth Study- 15 Hours of in-class investigation and research within modules 5-8

## Why study the course?

If you like and are confident with Mathematics and Science, then this is the course for you. If you have an interest in space or the curiosity of how things work, such as cars and computers, then Physics is for you. If you prefer technology as supposed to cells, or practical experiments as supposed to theoretical chemical reactions, then Physics is the right science for you. The problem-solving nature of Physics further develops students' skills by focusing on the exploration of models and the analysis of theories and laws. Physics will be a challenging but exciting course, which allows you to go in depth of the understanding of the world.

If you want to do any type of Engineering or Science at university, then Physics is for you. The study of Physics provides the foundation knowledge and skills required to support participation in a range of careers. It is a discipline that utilises innovative and creative thinking to address new challenges, such as sustainability, energy efficiency and the creation of new materials.

## What are the challenges?

Being able to apply technical and abstract ideas to complex novel scenarios  
Applying multiple formula to solve a problem that bridges the content and knowledge of several modules of work.

The large mathematical component of the course. You really need to be confident combining formula and mathematical skills.

The large volume of technical content

## Course Prerequisites

Please note, there are prerequisites for studying Physics at Wollemi.

Year 10 students wishing to do Physics should:

- be performing well in Advanced Mathematics
- anticipate an A grade in Science.

To be a successful Physics student you must be passionate about understanding the world around them and the underlying governing principles. Able to make the commitment to striving to understand difficult and abstract concepts.

## Potential career Options

Students who study physics are prepared to work on forefront ideas in science and technology, in academia, the government, or the private sector. Careers might focus on basic research in astrophysics, cosmology, particle physics, atomic physics, photonics or condensed matter physics, or in more applied research in areas such as renewable energy, quantum information science, materials development, biophysics, or medical physics. Careers could also include teaching, medicine, law (especially intellectual property or patent law), science writing, history of science, philosophy of science, science policy, energy policy, government, or management in technical fields.

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## What is covered?

This course provides students with the opportunity to develop their own artworks, culminating in a 'Body of Work' in the HSC course. Students engage in critical and historical study of the artworld to investigate artists, artworks, worlds and audiences from a range of cultural, political, historical and social perspectives and use these to inform their own artmaking practices.

### Year 11

The Preliminary Course will include 2 minor works in which students will explore a range of artmaking practices and expressive forms.

The Preliminary course will also introduce students to a range of artists and works from a range of periods in Art History and build on skills of critical analysis and interpretation. Students will become familiar with the four frames of critical analysis, art making practice, and the agencies of the artworld (artist, artwork, world and audience).

- The first artmaking project will focus on the still life tradition to develop advanced painting and drawing skills, observational skills and consideration of compositional choices.
- the second artmaking project provides students with greater autonomy to work in an expressive form of their choosing, in response to a site exploration.

### Year 12

The HSC course requires students to complete a body of work in one or more expressive forms of their choosing.

- The body of work is an opportunity for students to demonstrate their artistic ability, achieving a high level of resolution in their artmaking.
- The body of work should also communicate conceptual meaning or ideas that are relevant to the students personal experiences and understanding of the world.

A number of case studies will be explored to further develop students understanding of art history and criticism in preparation for the HSC examination.



## Why study the course?

The HSC Visual Arts course provides students with a unique opportunity to explore their own creative avenues of expression and showcase their artistic ability. The course enables students to gain increasing intellectual autonomy in their abilities to aesthetically and persuasively represent ideas in the visual arts; and understand and value how the field of the visual arts is subject to different interpretations. Students will develop knowledge, skills and understanding of how they may represent their interpretations of the world in artmaking. Students will develop knowledge, skills and understanding of how they may represent an informed point of view about the visual arts in their critical and historical accounts.

## What are the challenges?

The time investment required to successfully complete the Visual Arts Body of Work is very demanding and should not be underestimated. You will be expected to invest a significant amount of extra time into your Body of Work in order to demonstrate a high degree of resolution. This subject is best suited to students who are good at time management and able to plan ahead. A high standard of artistic ability is expected in order to be successful at HSC Visual Arts. Strong drawing skills are recommended as a prerequisite. The course also presents a challenging written examination and will best suit students who are strong in English and written expression.

## Course Prerequisites

A natural artistic ability and sense of creativity are an important skill set for success. It is recommended that you have completed elective Visual Arts.

## Potential career Options

Visual Artist, Architecture, curator, graphic designer, stage and film production, interior design, Art historian or critic, Journalism, Art Dealer.

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# SUBJECT INFORMATION

## YEAR 11 - 1 Unit Board Developed Courses

### English Extension 1

(Must be studying Advanced English)

#### What is covered?

Texts, Culture and Value

Students independently pursue areas of interest with complex texts that challenge them to think critically and creatively about the way literature shapes and reflects the world. They learn to use research methodology to undertake investigation in English and develop extended compositions. Throughout the course, students explore and evaluate the meanings of texts and compare the value of texts. They investigate a range of conceptual contexts for the reading and composition of texts and explore and adopt a range of reading practices to develop awareness of the assumptions that guide interpretation and evaluation.

#### Why study the course?

Ext I is for students capable of grasping literary theory and being able to write at a sustained, sophisticated level creatively and analytically. Ext I is for students who are very strong at reading, writing and analysing literary texts. As the Preliminary course, it will prepare you for the Year 12 Ext I course.

#### What are the challenges?

In Year 11, the main challenge is acquiring the literary skills that you require to complete the Year 12 Ext I course by being diligent and an autonomous learner.

#### Course Prerequisites

The prerequisite for students who wish to study Extension I English

- must be currently be studying Advanced English – Year 11

#### Potential career Options

English students who study Advanced or Ext English may look to pursue careers in journalism/ communications, teaching, law, speechwriting, author, librarian, HR, etc.

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# SUBJECT INFORMATION

## YEAR 11 - 1 Unit Board Developed Courses

### Mathematics Extension 1

(Must be studying Advanced Mathematics)

#### What is covered?

Topic: Functions

- Further Work with Functions
- Polynomials

Topic: Trigonometric Functions

- Inverse Trigonometric Functions
- Further Trigonometric Identities

Topic: Calculus

- Rates of Change

Topic: Combinatorics

- Working with Combinatorics

#### Why study the course?

- enables students to develop thorough knowledge, understanding and skills in working mathematically and in communicating concisely and precisely
- provides opportunities for students to develop rigorous mathematical arguments and proofs, and to use mathematical models extensively
- provides opportunities for students to develop their awareness of the interconnected nature of mathematics, its beauty and its functionality
- provides a basis for progression to further study in mathematics or related disciplines and in which mathematics has a vital role at tertiary level
- provides an appropriate mathematical background for students whose future pathways may involve mathematics and its applications in such areas as science, engineering, finance and economics.

#### What are the challenges?

- Calculus, Combinatorics and Vectors tend to be the more abstract and difficult components of this course.
- This course will also be quite time consuming. To perform well, almost one third of your HSC preparation time will be dedicated to this subject.

#### Course Prerequisites

Year 10 Advanced Mathematics (A grade), Year 11 Advanced Mathematics.

#### Potential career Options

Engineering, Computer Science, Finance/Accounting and Actuaries are just a few of the potential career options that Extension 1 Mathematics supports.

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# SUBJECT INFORMATION

## YEAR 12 - 1 Unit Board Developed Courses

### English Extension 1 – HSC

Please note – must be taken in addition to your top 10 units

#### What is covered?

- Literary Worlds- related texts.

#### Why study the course?

Students who like English and who have the skills should think about studying English Ex I. For students thinking of university courses connected with literary components like Law or Journalism then Ext I would suit such students.

#### What are the challenges?

You will be competing against the top English students in the state and against the Ext I and Ext II students. Studying complex texts and being required to write extended responses with a sustained analysis under exam conditions is the primary challenge of Extension English.

#### Course Prerequisites

The prerequisite for students who wish to study Extension I English is that they must have studied

- Advanced English – Year 11
- Extension I English – Year 11

Students must also currently be studying

- Advanced English – Year 12

#### Potential career Options

English students who study Advanced or Ext English may look to pursue careers in journalism/ communications, teaching, law, speechwriting, author, librarian, HR, etc.

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# SUBJECT INFORMATION

## YEAR 12 - 1 Unit Board Developed Courses

### English Extension 2 – HSC

Please note – must be taken in addition to your top 10 units

#### What is covered?

Author and authority:

Students develop their understanding of author and authority by exploring ONE author study. In their author study, students evaluate the primacy of the author in creating a text's meaning. Students will develop an understanding of the roles of the author and reader as reproducers of ideas, language and texts that are part of a broader literary and theoretical context. They develop their understanding of significant thinkers, theories and movements by exploring an author study.

Students complete a Major Work which involves students undertaking extensive independent investigation involving a range of complex texts during the composition process and document this in their Major Work Journal and Reflection Statement.

#### Why study the course?

Extension II is only for gifted and creative students capable of extensive research and work on a Major Work in their own time.

#### What are the challenges?

You will be competing against the top English students in the state and against the Ext I and Ext II students. Keeping to a deadline, continual editing

#### Course Prerequisites

The prerequisite for students who wish to study Extension II English is that they must have studied

- Advanced English – Year 11
- Extension I English – Year 11

Students must also currently be studying

- Advanced English – Year 12
- Extension I English – Year 12

#### Potential career Options

English students who study Advanced or Ext English may look to pursue careers in journalism/ communications, teaching, law, speechwriting, author, librarian, HR, etc.

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# SUBJECT INFORMATION

## YEAR 12 - 1 Unit Board Developed Courses

### Mathematics Extension 1

Please note – must be taken in addition to your top 10 units

#### What is covered?

Topic: Proof

- Proof by Mathematical Induction

Topic: Vectors

- Introduction to Vectors

Topic: Trigonometric Functions

- Trigonometric Equations

Topic: Calculus

- Further Calculus Skills
- Applications of Calculus

Topic: Statistical Analysis

- The Binomial Distribution

#### Why study the course?

- enables students to develop thorough knowledge, understanding and skills in working mathematically and in communicating concisely and precisely
- provides opportunities for students to develop rigorous mathematical arguments and proofs, and to use mathematical models extensively
- provides opportunities for students to develop their awareness of the interconnected nature of mathematics, its beauty and its functionality
- provides a basis for progression to further study in mathematics or related disciplines and in which mathematics has a vital role at tertiary level
- provides an appropriate mathematical background for students whose future pathways may involve mathematics and its applications in such areas as science, engineering, finance and economics.

#### What are the challenges?

- Calculus, Combinatorics and Vectors tend to be the more abstract and difficult components of this course.
- This course will also be quite time consuming. To perform well, almost one third of your HSC preparation time will be dedicated to this subject.

#### Course Prerequisites

Year 11/12 Advanced Mathematics, Year 11 Extension 1 Mathematics

#### Potential career Options

Engineering, Computer Science, Finance/Accounting and Actuaries are just a few of the potential career options that Extension 1 Mathematics supports.

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# SUBJECT INFORMATION

## YEAR 12 - 1 Unit Board Developed Courses

### Mathematics Extension 2

Please note – must be taken in addition to your top 10 units

#### What is covered?

Topic: Proof

Topic: Vectors

Topic: Complex Numbers

Topic: Calculus

Topic: Mechanics

#### Why study the course?

- provides opportunities to develop strong mathematical manipulative skills and a deep understanding of the fundamental ideas of algebra and calculus, as well as an awareness of mathematics as an activity with its own intrinsic value, involving invention, intuition and exploration
- provides opportunities at progressively higher levels for students to acquire knowledge, understanding and skills in relation to concepts within areas of mathematics that have applications in an increasing number of contexts
- provides a basis for progression to further study in mathematics or related disciplines and in which mathematics has a vital role at tertiary level

#### What are the challenges?

- Mechanics and Complex numbers tend to be the more abstract and difficult components of this course.
- Undertaking this course will be very time consuming. Typically, students that do this course will spend almost half their HSC preparation time dedicated to this subject.

#### Course Prerequisites

The prerequisite for students who wish to study Extension II Mathematics is that they must have studied:

- Advanced Mathematics – Year 11
  - Extension I Mathematics – Year 11
- Students must also currently be studying
- Advanced Mathematics – Year 12
  - Extension I Mathematics – Year 12

Students will be invited to study the course dependent on exceptional performance in Advanced and Extension 1 in Year 11.

#### Potential career Options

Engineering, Computer Science, Finance/Accounting and Actuaries are just a few of the potential career options that Extension 2 Mathematics supports.

# SUBJECT INFORMATION

## YEAR 12 - 1 Unit Board Developed Courses

### History Extension HSC

**Please note – must be taken in addition to your top 10 units**

History Extension allows the student to engage in a deeper study of historiography which is the study of how we write history. Students study how history is constructed and the types of history that can be constructed and the problems associated with constructing history. There is a focus on how a historian's context and background have shaped the history they have written. As such this course revolves around historical analysis involving bias, perspective, usefulness, reliability and fact and opinion. The student will engage with case studies to gain multiple perspectives on the creation of history and will engage in their own historical investigation on a historical debate of their choice.

#### Why study the course?

- It allows for a deeper understanding of the process of writing history and appreciation of the history of our world.
- It allows for the development of critical thinking skills which will assist in life after school

#### What are the challenges?

- It requires a lot of reading of historical authors to gain a broad perspective.
- As there is little time allocated for face to face teaching the course requires students who can independently manage themselves and their workload

#### Course Prerequisites

Year 11 Ancient or Modern history and a co requisite of Year 12 Ancient or Modern history

#### Potential career Options

- Historian: The skills you learn in this course are invaluable for a career as a historian.
- History Teacher: A study of History extension will provide the knowledge for a career in teaching and to teach at the Senior school level.
- University Lecturer: The same as a teacher a study in History extension will provide the base knowledge for a career as an Academic.
- Archaeologist: The basic skills you learn about in History extension form the core of what an archaeologist does, and will give you different ways to approach dig sites.
- Museum Curator: Museum curators needs a strong background in History extension to present exhibitions from different perspectives
- Researcher: The strong research skills developed in the study of History extension transfers well to multiple jobs where a person's ability to find relevant information is needed.
- Journalist: The ability to look at an issue from multiple perspectives is the core of what a Journalist does.

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### For more Information:

#### Key Contacts at Wollemi

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#### Further Reading

##### NESA website

<https://www.educationstandards.nsw.edu.au/wps/portal/nesa/11-12/hsc/about-HSC>

##### ACE Website

<https://ace.nesa.nsw.edu.au/>

##### UAC

<https://www.uac.edu.au/>

##### Good University Guide

<https://www.gooduniversitiesguide.com.au/>