# Smith's Hill High School

A NSW Academically Selective High School

# Senior Curriculum Handbook



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#### INTRODUCTION

The Curriculum Handbook outlines the full range of courses that are offered for Years 11 and 12 at Smith's Hill High School.

When considering subject's you would like to study in the Senior School you should consider the following points:

- **NSW Education Standards Authority** (NESA) requirements for the Higher School Certificate and your pattern of study
- courses which may be prerequisites for University or a particular career
- your particular interests and aptitude

Remember that learning should be a challenging and enjoyable experience and you should select courses which you feel best reflect your abilities and interests. Research indicates that students tend to do well in those subjects they like and enjoy studying.

The inclusion of subjects will naturally depend upon the number of students who select them and available staffing. There may be occasions where there will need to be reduced face-to-face teaching periods because of small class sizes in some preliminary and HSC courses.

All information is accurate at the time of publication, however, the most up to date information can be found on the NESA website:

http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/hsc/about-HSC

Mr David C. Deitz

Principal

# **Curriculum Requirements Years 11 And 12**

# **Year 11: Preliminary Courses**

- Year 11 courses are referred to as Preliminary courses
- Preliminary courses run in terms 1, 2 and 3 of Year 11.
- In all courses, the Preliminary course is a prerequisite to the HSC course.

#### Year 12 - HSC Courses

- Year 12 courses are referred to as HSC courses.
- The HSC courses start at the beginning of term 4 of the Year 11 school year and run until the Higher School Certificate examinations which begin in early Term 4 of the following year.

# **Pattern of Study**

#### Must include:

• at least 12 units of Preliminary courses

and,

• at least 10 units of Higher School Certificate courses

# To qualify for the HSC, both the Preliminary and HSC course pattern must include:

- at least two units of English
- at least six units of Board DevelopedCourses
- at least three courses of two units value or greater
- at least four subjects
- no more than seven units of courses in Science

# **Course Fees**

Some subjects have course fees - these are listed in the course descriptions and are accurate at the time of publishing, however, are subject to minor change.

#### **General Information**

#### **Units**

All courses are organised into units. Most courses are 2 units. The Extension courses and Studies of Religion are 1 unit.

#### **Timetabled Periods**

- Year 11: 2 unit courses will commence study with 6 periods per cycle.
- Year 12: 2 unit courses will commence study with 6 periods per cycle.
- Year 11 and 12: 1 unit courses and Extension courses are for 3 periods per fortnight.

# **Types of Courses**

#### **Board Developed Courses**

These count towards the ATAR. They are assessed by the school and examined at the HSC. All courses at Smith's Hill are Board Developed Courses.

# **Board Developed VET Courses**

These courses are recognised by the Vocational Education and Training Accreditation Board (VETAB) as a training course. These courses are Category B for the ATAR. At Smith's Hill High School there are currently no Category B courses offered.

#### **Extension Courses**

Extension courses are designed for *very* capable students who wish to undertake extra learning in a particular area and should be discussed in consultation with the student's teacher prior to selection of the course.

Extension courses are offered in:

- Year 11 in English and Mathematics. You must do these if you wish to do Extension 1 courses in these subjects in Year 12.
- There is an additional Extension course offered in English and Maths in Year 12 (Extension 2) and the Extension 1 course is a pre-requisite or co-requisite for these.
- Historically, Year 12 extension courses have been offered in History, French, German, Japanese, Science and Music. Again, this will be at the discretion of the Principal.

# **Satisfactory Completion of a Course**

To be deemed satisfactory in a course, you must:

 follow the course developed or endorsed by NESA; and apply yourself with diligence and sustained effort to the set tasks and experiences provided in the course by the school; and achieve some or all of the course outcomes

#### **ATAR**

The Australian Tertiary Admission Rank is a ranking of students, with 99.95 being the top. It is used by the universities to determine which students will be admitted to university courses. It can include units accumulated by a candidate over a total time span of *five* years. If a candidate repeats a course, only the latest attempt will be available for inclusion in the ATAR.

The ATAR is based on a scaled aggregate of marks in 10 Board Developed Courses comprising:

- the best two units of English; and
- the best eight from your remaining units, subject to the provision that no more than two units of Category B courses are included. Courses from at least four subjects must be included.

Further information can be accessed at this link:

https://www.uac.edu.au/future-applicants/atar

#### **UAC**

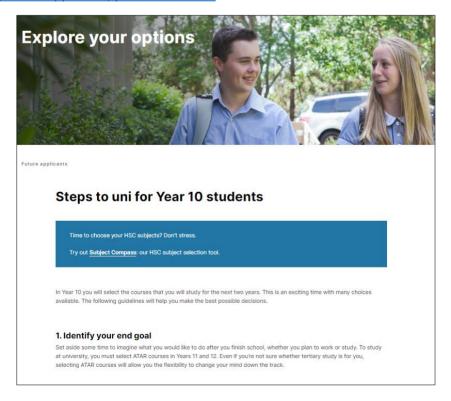
The University Admission Centre (UAC) is the body which organises and processes all applications to universities in NSW. It contacts students after the HSC to advise them which university courses they are being offered based on their ATAR.

Further information can be accessed at this link:

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

#### Additional information and helpful tips:

https://uac.edu.au/future-applicants/year-10-students



# ASSESSMENT, REPORTING and CREDENTIALS

Assessment is an essential component of the teaching and learning cycle. The NSW Education Standards Authority (NESA) continues to promote a standards-referenced approach to assessing and reporting student achievement. Assessment for, assessment as and assessment of learning are approaches that enable teachers to gather evidence and make judgements about student achievement. These are not necessarily discrete approaches and may be used individually or together and formally or informally.

# **Stronger HSC Standards**

The Stronger HSC Standards reforms provide new directions for assessment practices in all Stage 6 courses to:

- rebalance the emphasis on assessment to allow more time for teaching and learning
- maintain rigorous standards
- provide opportunities to assess students' depth of knowledge and their conceptual, analytical and problem-solving skills. NESA provides a consistent approach to Stage 6 school-based assessment requirements for all Board Developed Courses.

# How are school-based assessment requirements changing?

Changes to each course include:

- mandatory components and weightings for both Year 11 and Year 12 courses
- capping the maximum number of formal assessment tasks to three in Year 11 and four in Year 12
- capping the number of formal written examination tasks that mimic the HSC examination to one per course, with a maximum weighting of 30% for the Year 12 course

Students will continue to be provided with details about course assessment schedules and advice about formal assessment tasks including weightings, timing and marking criteria.

Students will continue to undertake:

- course-specific formal school-based assessment programs
- a range of assessment task types such as tests, written assignments, oral presentations, digital submission, practical activities, fieldwork and projects
- course-specific external assessment, such as the HSC examinations or submitted works.

# Reporting

Students will receive two school reports during the Preliminary course and two during the HSC course.

# **Record of School Achievement (ROSA)**

The NSW Education Standards Authority (NESA) issues the Record of School Achievement (RoSA) to eligible students who leave school before completing the Higher School Certificate (HSC).

The RoSA is a cumulative credential, meaning it contains a student's record of academic achievement up until the date they leave school. This could be between the end of Year 10 up until and including some results from Year 12.

The RoSA records completed Stage 5 (Year 10) and Preliminary Stage 6 (Year 11) courses and grades, HSC (Year 12) results, and where applicable participation in any uncompleted Preliminary Stage 6 courses or HSC courses.

The RoSA is useful to students leaving school prior to the HSC because they can show it to potential employers or places of further learning.

The RoSA is also available to students who, from 2020, have not demonstrated the <u>HSC minimum standard</u> to receive their HSC.

Further information regarding the RoSA can be found at the following link:

http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/leaving-school/record-of-school-achievement

# **Higher School Certificate**

The Higher School Certificate (HSC) is the highest educational award in secondary education in New South Wales. It is awarded to students who have satisfactorily completed Years 11 and 12 at secondary school. To be eligible, students must meet HSC course requirements and sit for the state-wide HSC examinations.

Further information regarding the HSC can be found at the following link:

http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/hsc/about-HSC

#### A WORD FROM THE CAREERS ADVISERS

Subject selection is one of the key components in forging a successful career pathway. In an exceedingly competitive market place students will need to bring their absolute personal best to their high school and tertiary education so they transition to the best possible and most appropriate occupation. Labour forces in the professional fields require students to be proactive and differentiate themselves in a number of fields - academically, extra-curricular involvement, resume and transferrable soft skills.

A student should be aware of their abilities and interests when choosing a course of study. An innate skill and enjoyment will ensure a student is keen and able to achieve their personal best. This self-awareness can be very difficult to discern as there are a number of factors that decide a student's results in a subject. Ideally, a student would choose a subject that they find interesting, challenging and inspirational. The inspiration will support the extra hours of study as the major exams loom. A keen interest in a particular subject or course will enhance the level of motivation and enthusiasm.

The role of the parent/carer in this conversation is crucial as they can bring some objectivity to the assessment of a student's unique personality and how aspects of their personality show up as an attribute that could decide subject choices.

A student could specialise in or choose a breadth of subjects. Either choice is astute if this keeps them interested and committed to doing the best they can. It is often possible for students to choose subjects that keep their options open for future study and career training.

This level of self-awareness and understanding of one's own particular set of attributes is often easier to explain than actually achieve. Sometimes research on the universities future student webpage links might encourage wiser choices. On the Smith's Hill school's career website <a href="https://smithshillhighcareers.com/">https://smithshillhighcareers.com/</a>, there are plenty of resources and information pertinent for students and parents.

In Year 10 students and parents should see that the higher the ATAR the more options become available in the future. For example, a high ATAR could mean the student is more likely to be chosen for scholarships. Future success will be supported by wise subject selection. All students and parent/carers are welcome to discuss these considerations with the careers advisers.

Ms Heka and Mrs Tsaccounis Careers Adviser

The Saturday School of Community Languages (SSCL) is a Department of Education secondary school that offers language courses to students wishing to study their background community language if it is not available for study at their mainstream school.

There are fourteen SSCL Centres, twelve based at high schools in the Sydney metropolitan area and one each in Wollongong and Newcastle.

Courses are offered for the Record of School Achievement and the Higher School Certificate in 26 languages.

At the Smiths Hill High School centre, the following community languages are offered for study: Arabic, Chinese, Macedonian, Modern Greek and Serbian. Students may enrol in other languages, with the option of travelling to a SSCL centre in Sydney on Saturdays or connecting online via the Smiths Hill HS centre.

For more information, please visit the Saturday School of Community Languages website <a href="https://saturdaycl-h.schools.nsw.gov.au">https://saturdaycl-h.schools.nsw.gov.au</a> or email SSCL-SmithsHill@det.nsw.edu.au

If you wish to study your background community language, please obtain initial advice from your school.

The new enrolment application forms are available from the **SSCL** website

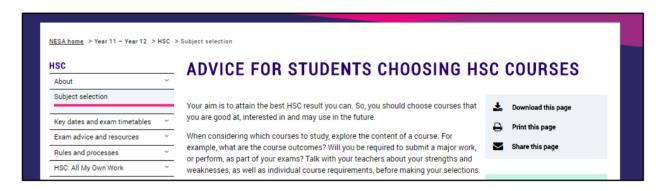


# **COURSE DESCRIPTIONS**

- The following is an outline of the courses that will initially be offered for the Year 11 cohort commencing study in 2021 at Smith's Hill High School. *Please note that the final courses*offered will be dictated by student and staff numbers at the discretion of the Principal.
- This information should be viewed in conjunction with the syllabus for more detail regarding the course content and specific requirements.
- Links to syllabus documents are provided at the bottom of each page. The syllabus will
  provide a detailed outline of course content, requirements for assessment and information
  regarding project based subjects.
- Students should also consult with their teachers and the careers adviser for more information
  if necessary.

More information regarding subject selections can be found on the NESA website.

http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/hsc/subject-selection



# **Ancient History**

SYLLABUS LINK – NESA

# **ANCIENT HISTORY**

The study of Ancient History in Stage 6 enables students to:

- develop knowledge and understanding of the ancient world, historical skills, and values and attitudes essential to an appreciation of the ancient world
- develop a lifelong interest in the study of history

	The Year 11 course is structured to provide students with opportunities to	HSC COURSE	Nil DESCRIPTION		
Ancient History		HSC COURSE	DESCRIPTION		
Year 11 History The Nature of Ancient History Course (120 hours)  Each case study should  be a minimum of 10	develop and apply their understanding of methods and issues involved in the investigation of the ancient past.  Through the use of archaeological and written sources, students investigate various aspects of the ancient world, including historical sites, people, societies, events and developments.	Year 12 Course (120 hours)	Ancient History  Core Study: Cities of Vesuvius – Pompeii and Herculaneum  Ancient Societies  Personalities in their Times Historical Periods	The Year 12 course to provide student opportunities to a understanding of and written source historiographical investigation of ancient past.	es with  pply their  archaeological  es and relevant

https://syllabus.nesa.nsw.edu.au/ancient-history-stage6/

# **Biology**

#### **BIOLOGY**

The study of Biology in Stage 6 enables students to develop an appreciation and understanding of biological concepts that are used to explore the diversity of life, from a molecular to a biological systems level, and the interactions between living things and the environments in which they live. Through applying Working Scientifically skills processes and the use of biological technologies, the course aims to examine how biological practices are developed and used.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	\$10	
PRE-REQUISITE	Nil	EXCLUSIONS	Nil			
PRELIMINARY COURSE DESCRIPTION		HSC COURSE DESCRIPTION				

# **Working Scientifically**

- Questioning and Predicting
- Planning Investigations
- Conducting Investigations
- Processing Data and Information
- Analysing Data and Information
- Problem Solving
- Communicating

#### Year 11

Module 1 - Cells as the Basis of Life

Module 2 – Organisation of Living Things

Module 3 – Biological Diversity

Module 4 – Ecosystem Dynamics

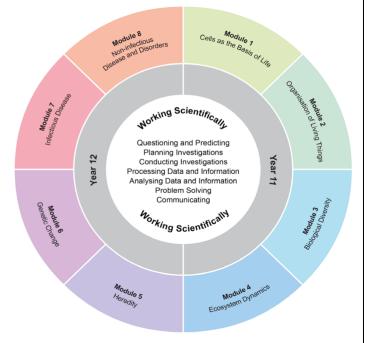
#### Year 12

Module 5 – Heredity

Module 6 – Genetic Change

Module 7 – Infectious Disease

Module 8 – Non-infectious Disease and Disorders



	Depth studies. At least one depth study must be included in both Year 11 and Year 12. A depth study is an investigation/activity that a student completes individually or collaboratively that allows the further development of one or more concepts found within or inspired by the syllabus.
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-science/biology-2017

# **Business Studies**

# **BUSINESS STUDIES**

Business Studies investigates the role, operation and management of businesses within our society. Factors in the establishment, operation and management of a small business are integral to this course. Within these topics students investigate the role of global business and its impact on Australian business. Students develop research and independent learning skills in addition to analytical and problem-solving competencies through their studies.

UNITS		2 Units	CATEGORY	Category A		C	OURSE FEE	Nil
PRE-REQUISITE		Nil	EXCLUSIONS	Nil				•
PRELIMINARY COURSE DESCRIPTION		ION	HSC COURSE	DESCRIPTION				
	Year 11 Course	Topics covered		Г		Topics cov	vered	
		Nature of Business			Year	Operatio	ons	
		Business Management		d	12 Course	Marketin		
		Business Planning				Finance Human Resource	1	
ADDITIONAL INFO	RMATION	Nil						
SYLLABUS LINK – NESA		http://educationstandards.nsv syl.pdf?MOD=AJPERES&CVID=	v.edu.au/wps/wcm/connect/2f9a	a5382-5446-4dc	c6-ba39-f	f90f53469200/	/business-stuc	lies-st6-

# **Chemistry**

#### **CHEMISTRY**

The study of Chemistry in Stage 6 enables students to develop an appreciation and understanding of materials and their properties, structures, interactions and related applications. Through applying Working Scientifically skills processes, the course aims to examine how chemical theories, models and practices are used and developed.

			C COURSE DESCRIPTION				
PRE-REQUISITE	Nil	EXCLUSIONS	Nil				
UNITS	2 units	CATEGORY	Category A	COURSE FEE	\$10		

# **Working Scientifically**

- Questioning and Predicting
- Planning Investigations
- Conducting Investigations
- Processing Data and Information
- Analysing Data and Information
- Problem Solving
- Communicating

#### Year 11

Module 1 – Properties and Structure Matter

Module 2 – Introduction to Quantitative Chemistry

Module 3 – Reactive Chemistry

Module 4 - Drivers of Reactions

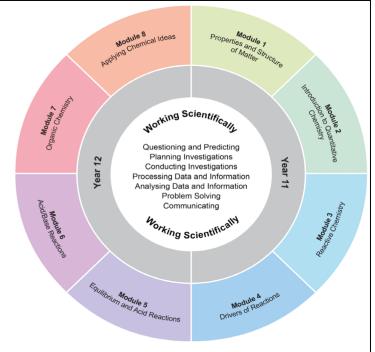
#### Year 12

Module 5 – Equilibrium and Acid Reactions

Module 6 – Acid/Base Reactions

Module 7 – Organic Chemistry

Module 8 – Applying Chemical Ideas



ADDITIONAL INFORMATION	Depth studies. At least one depth study must be included in both Year 11 and Year 12. A depth study is an investigation/activity that	•
	a student completes individually or collaboratively that allows the further development of one or more concepts found within or	
	inspired by the syllabus.	
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-science/chemistry-2017	

# **Design and Technology**

# **DESIGN AND TECHNOLOGY**

Students study design processes, design theory and factors in relation to design projects.

In the Preliminary course, student's study designing and producing, which includes the completion of at least two design projects.

In the HSC course, students undertake a study of innovation and emerging technologies, which includes a case study of an innovation. They also study designing and producing, which includes the completion of a Major Design Project.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Year 11 \$50 Year 12 \$50	
PRE-REQUISITE	Nil	<b>EXCLUSIONS</b>	Nil			
PRELIMINARY COURSE DESCRIPTIO	N	HSC COURSE	DESCRIPTION			
Preliminary Course  Designing and Producing, including the study of design theory, design processes, creativity, collaborative design, research, management, using resources, communication, manufacturing and production, computer-based technologies, safety, evaluation, environmental issues, analysis, marketing and manipulation of materials, tools and techniques.		HSC Course Innovation and Emerging Technologies, including a case study of innovation. The study of designing and producing includes a Major Design Project. The project folioncludes a project proposal and management, project development and realisation and project evaluation.				
ADDITIONAL INFORMATION	In the Preliminary course, students must participate in hands-on practical activities. In the HSC course the comprehensive study of designing and producing that were studied in the Preliminary course are synthesised and applied. This culminates in the development and realisation of a major design project and the presentation of a case study.					
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/poi	rtal/nesa/11-12	/stage-6-learning-areas/t	echnologies/design-and-ted	hnology-syllabus	

# Drama

	DRAMA				
Students study the practices of Making individual experiences.	g, Performing and Critically Studying in Drama. S	tudents engage	with these componen	ts through collaborative and	
UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Nil	<b>EXCLUSIONS</b>	Nil	•	
PRELIMINARY COURSE DESCRIPTION		HSC COURSE	DESCRIPTION		
Improvisation, Playbuilding and Acting, Elements of Production in Performance and Theatrical Traditions and Performance Styles. Learning comes from practical experiences in each of these areas.  • Improvisation, Playbuilding, Acting • Elements of Production in Performance • Theatrical Traditions and Performance Styles		Australian Drama and Theatre and Studies in Drama and Theatre involves the theoretical study through practical exploration of themes issues, styles and movements of traditions of theatre, exploring relevant acting techniques, performance styles and spaces.  The Group Performance of between three and six students involves creating a piece of original theatre (8 to 12 minutes duration). It provides opportunity for each student to demonstrate his or her performance skills.  • Australia Drama and Theatre (Core content) • Studies in Drama and Theatre • Group Performance (Core content) • Individual Project			
ADDITIONAL INFORMATION  SYLLABUS LINK – NESA	For the <b>Individual Project</b> in year 12, studen one project from Critical Analysis <b>or</b> Design of http://educationstandards.nsw.edu.au/wps/p	<b>or</b> Performance	or Scriptwriting or Vide	eo Drama.	and laborate

# Earth and Environmental Science

# **EARTH AND ENVIRONMENTAL SCIENCE**

The study of Earth and Environmental Science in Stage 6 enables students to develop an appreciation and understanding of geological and environmental concepts that help explain the changing face of the Earth over time. Through applying Working Scientifically skills processes, the course aims to examine how earth and environmental science models and practices are used and developed.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	\$10
PRE-REQUISITE	Nil	EXCLUSIONS	Nil		
PRELIMINARY COURSE DESCRIPTION		HSC COURSE D	DESCRIPTION		

# **Working Scientifically**

- Questioning and Predicting
- Planning Investigations
- Conducting Investigations
- Processing Data and Information
- Analysing Data and Information
- Problem Solving
- Communicating

#### Year 11

Module 1 – Earth's Resources

Module 2 – Plate Tectronics

Module 3 – Energy Transformations

Module 4 – Human Impacts

#### Year 12

Module 5 – Earth's Processes

Module 6 – Hazards

Module 7 – Climate Science

Module 8 – Resource Management



ADDITIONAL INFORMATION	Depth studies. At least one depth study must be included in both Year 11 and Year 12. A depth study is an investigation/activity that
	a student completes individually or collaboratively that allows the further development of one or more concepts found within or
	inspired by the syllabus.
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-science/earth-and-environmental-
	science-2017

# **Economics**

# **ECONOMICS**

Economics provides an 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 will impact on 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.

			ı					
UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil			
PRE-REQUISITE	Nil	EXCLUSIONS	IONS Nil					
PRELIMINARY COURSE DESCRIPTION		HSC COURSE I	HSC COURSE DESCRIPTION					
<ul> <li>Topics covered:</li> <li>Introduction to Economics</li> <li>Consumers and Business</li> <li>Markets</li> <li>Labour Markets</li> <li>Financial Markets</li> <li>Government in the Economy</li> </ul>		<ul><li>The Gl</li><li>Austra</li><li>Econo</li></ul>	<ul> <li>Australia's Place in the Global Economy</li> <li>Economic Issues</li> </ul>					
ADDITIONAL INFORMATION	Nil							
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/hsie/economics							

# **Engineering Studies**

# **ENGINEERING STUDIES**

Both Preliminary and HSC courses offer students' knowledge, understanding and skills in aspects of engineering that include communication, engineering mechanics/hydraulics, engineering materials, historical/societal influences, engineering electricity/electronics, and the scope of the profession.

Students study engineering by investigating a range of applications and fields of engineering.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Year 11: \$20
					Year 12: \$20
PRE-REQUISITE	Nil	EXCLUSIONS	Nil		·
PRELIMINARY COURSE DE	SCRIPTION	HSC COURSE DES	CRIPTION		
Students undertake the modules:  • Engineering Fundame  • Engineered Products  • Braking Systems  • Biomedical Engineeri		Civil Structure	es Public Transport Engineering	oletion of four compulso	ry modules:
Students complete an E modules	ngineering Report from <u>two</u> of the	Students complete an Engineering Report from <u>two</u> of the modules			ules
ADDITIONAL INFORMATION	One report from the Preliminary an	d the HSC courses mu	st be the result of colla	aborative work.	
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.a	au/wps/portal/nesa/11	-12/stage-6-learning-are	eas/technologies/enginee	ring-studies-syllabus

# **English Standard**

# **ENGLISH STANDARD**

**English Standard** is designed for all students to increase their expertise in English and consolidate their English literacy skills in order to enhance their personal, social, educational and vocational lives. Students learn to respond to and compose a wide variety of texts in a range of situations in order to be effective, creative and confident communicators.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Nil	EXCLUSIONS	Nil		•
PRELIMINARY COURSE DESCRIPT	TION	HSC COURSE	DESCRIPTION		
Central to this module is perceptively to texts throw writing and judicious refleward.  Module A: Contemporar Module B: Close Study of Students must study a range of the poetry, nonfiction, film, media and study and study are study are study and study are	f Literature ypes of texts drawn from prose fiction, drama,	<ul> <li>Module C: The Craft of Writing</li> <li>Students are required to closely study three types of prescribed texts, one draw from each of the following categories:         <ul> <li>prose fiction</li> </ul> </li> </ul>		cts, one drawn	
		Students mus Experiences.	study ONE related text in the Com	nmon module: Text	ts and Human
ADDITIONAL INFORMATION	Nil				
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/por	tal/nesa/11-12/	stage-6-learning-areas/stage-6-eng	glish/english-stand	ard-2017

# **English Advanced**

# **ENGLISH ADVANCED**

**English Advanced** is designed for students to undertake the challenge of higher-order thinking to enhance their personal, social, educational and vocational lives. These students apply critical and creative skills in their composition of and response to texts in order to develop their academic achievement through understanding the nature and function of complex texts.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Nil	EXCLUSIONS	Nil		
PRELIMINARY COURSE DESCRIPTIO	N	HSC COURSE	DESCRIPTION		
Common Module - Reading to Write: Transition to Senior English		Common mo	dule - Texts and Humar	Experiences	
<ul> <li>Module A: Narratives that S</li> </ul>	Shape our World	• Mod	ule A: Textual Conversati	ons	
Module B: Critical Study of	Literature	• Modi	ule B: Critical Study of Lit	erature	
		• Modi	ule C: The Craft of Writin	g	
Students must study a range of type	es of texts drawn from:				
<ul> <li>prose fiction</li> </ul>		Students are required to closely study four prescribed texts, one drawn from each			
• drama		of the following categories:			
• poetry		• Shake	espearean drama		
<ul> <li>nonfiction</li> </ul>		• prose	fiction		
• film		• poetr	y OR drama		
<ul> <li>media and,</li> </ul>					
<ul> <li>digital texts</li> </ul>		Students mus	t study <b>ONE</b> related text in	n the Common Module – Te	exts and Human
The Year 11 course requires student	ts to support their study of texts with their own	Experiences			
wide reading.					
ADDITIONAL INFORMATION	Nil	•			
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/po	rtal/nesa/11-12	/stage-6-learning-areas/st	tage-6-english/english-adva	nced-2017

# **English Extension**

# **ENGLISH EXTENSION**

English Extension provides students who undertake Advanced English the opportunity to extend their use of language and self-expression in creative and critical ways along with pursuing areas of interest with increased independence. They engage with complex texts that intellectually challenge them to think creatively and critically about the way that literature shapes and reflects the global world.

· ·	shapes and reflects the global world.	a dasira ta muraua s	accialised study of Englis	.h	
UNITS	dents with an interest in literature and a 1 Unit	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	<ul> <li>English Advanced Course</li> <li>Preliminary English Extension course is prerequisite for Extension Course 1</li> <li>Extension 1 course is a prerequisite for Extension Course 2</li> </ul>	EXCLUSIONS	As per pre-requisites		
PRELIMINARY COURSE DESCR	RIPTION	HSC COURSE DES	CRIPTION		
Preliminary Extension Count module: This course has one manda Value which requires studer past and its manifestations in research a range of texts as p Students will also undertak	HSC Extension 1 Common module: Literary worlds with one elective option  This course requires the study of at least three texts selected from the prescribed text list. Students are also required to study at least two related texts (texts of their own choosing)  HSC Extension 2 The composition process, Major Work, Reflection Statement, the Major Work Journal				
	The course requires extensive independent investigation involving a range of complex texts of the composition process and document this in their Major Work Journal and Reflection State The selection of texts will depend on the Major Work form.				
ADDITIONAL INFORMATION	Nil				
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.a	u/wps/portal/nesa/	11-12/stage-6-learning-a	areas/stage-6-english/english	-extension-2017

# **Food Technology**

# **FOOD TECHNOLOGY**

This course provides students with the opportunity to develop broad knowledge and understanding about nutrition, diet and health in Australia, food availability and selection. Students investigate the Australian Food Industry, the production, processing, packaging, storage and distribution of food and the marketing of food products. Practical skills in developing, experimenting, planning, preparing and presenting food are integrated throughout the course.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	\$40 per year
PRE-REQUISITE	Nil	EXCLUSIONS	Nil		
PRELIMINARY COURSE DESCRIPTION		HSC COURSE D	DESCRIPTION		
<ul><li>Food Availability and Selection</li><li>Food Quality</li><li>Nutrition</li></ul>		<ul><li>The Aus</li><li>Food Ma</li></ul>	oduct Development tralian Food Industry anufacture porary Nutrition Issues		
ADDITIONAL INFORMATION	It is mandatory that students undertake practical a of each strand.	activities. Such e	experiential learning activities	are specified in the	'learn to' section
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/porta	l/nesa/11-12/st	age-6-learning-areas/technol	ogies/food-technolo	gy-syllabus

# French Continuers

# **FRENCH CONTINUERS**

The Preliminary and HSC courses have, as their organisational focus, themes and associated topics. Students' skills in, and knowledge and understanding of, French will be developed through tasks which engage with a range of texts and text types that reflect the prescribed themes and topics. Students will also gain an insight into the culture and the language of French-speaking communities through the study of a range of authentic texts.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
	Optional 1 Unit Extension course for HSC				
	year				
PRE-REQUISITE	Stage 5 French equivalent knowledge is	EXCLUSIONS	French Beginners		
	assumed				

Themes covered throughout Preliminary and HSC courses:

Prescribed Themes	Mandatory Topics
The Individual	Personal identity
	Relationships
	School life and aspirations
	Leisure and interests
The French-Speaking	Daily life/lifestyles
Communities	Arts and entertainment
The Changing World	Travel and tourism
	The world of work
	Current issues
	The young people's world

ADDITIONAL INFORMATION	Language HSC speaking examinations are held on Saturdays in August and September
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-languages/continuers/french-
	<u>continuers-syllabus</u>

# French Extension

# FRENCH EXTENSION - HSC ONLY

The Extension course has a prescribed text and related issues as its organisational focus. Students' knowledge and understanding of French language and culture will be enhanced through accessing a variety of texts, some of which are prescribed, related to the theme and issues. Students will extend their ability to use and appreciate French as a medium for communication and creative thought and expression.

UNITS	1 Unit	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	French Continuers HSC	EXCLUSIONS	Nil		

# **Main Topics Covered:**

#### **Themes**

- Acceptance
- Resilience
- Identity

# Students' knowledge and understanding of the issues are developed through tasks such as:

- Discussing issues in prescribed and related texts
- Presenting points of views on issues
- Analysing aural and written texts

ADDITIONAL INFORMATION	Prescribed text: "Intouchables"
	Language HSC speaking examinations are held on Saturdays in September
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-languages/extension/french-
	<u>extension-syllabus</u>

# **Geography**

# **GEOGRAPHY**

The aim of this course is to enable students to investigate the world through accurate descriptions and interpretations of the varied character of the physical environment of the earth and its people. A student will develop the ability to recognise and understand environmental change and thus be able to interact effectively as a citizen.

• The HSC course enables students to understand the contemporary world. Through specific studies about biophysical and human resources, interactions and trends. Fieldwork and a variety of case studies combine with an assessment of the geographers' contribution to understanding our environment.

	,	<u> </u>	, ,		
UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Nil	EXCLUSIONS	Nil		
PRELIMINARY COURSE DESCRIPTION	N	HSC COURSE I	DESCRIPTION		
features of the physical environment geographical issues. The second selected forces impacting on the geographical forces impacting the geographical forces	e processes that form and transform the ent using fieldwork and research of ection of the course examines the global and graphy of population. Two studies will be . Political Geography. Development	The HSC course enables students to understand the contemporary world. Throuse specific studies about biophysical and human resources, interactions and trend Fieldwork and a variety of case studies combine with an assessment of the geographers' contribution to understanding our environment.			ns and trends.
Geography and Natural Resources  Topics covered:  Biophysical Interactions Global Challenges Senior Geography Project	Topics covered: d: Ecosystems at Risk sical Interactions Urban Places Challenges People and Economic Activity				
ADDITIONAL INFORMATION	Students complete a senior geography project (and HSC courses. Students will be required to so			e fieldwork in both	n the Preliminary
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/po			raphy	

# **German Continuers**

# **GERMAN CONTINUERS**

The Preliminary and HSC courses have, as their organisational focuses, themes and associated topics. Students' skills in, and knowledge of, German will be developed through tasks which engage with a range of texts and text types, reflective of the prescribed topics. Students will also gain an insight into the culture and language of German-speaking communities through the study of authentic texts.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Stage 5 German or equivalent knowledge is	EXCLUSIONS	German Beginners		
	assumed				
PRELIMINARY COURSE DESCRIPTION		HSC COURSE DESC	CRIPTION		

Themes covered in the Preliminary and HSC courses:

Prescribed Themes	Topics
The Individual	Personal identity
	Education and aspirations
	Leisure and lifestyles
The German-Speaking	People and places
Communities	Past and present
	Arts and entertainment
The Changing World	The world of work
	Youth issues
	Tourism and hospitality

ADDITIONAL INFORMATION	anguage HSC speaking examinations are held on Saturdays in August	
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-languages/continuers/german-	
	<u>continuers-syllabus</u>	

# **German Extension**

# **GERMAN EXTENSION – HSC ONLY**

The Extension course has a prescribed text and related issues as its organisational focus. Students' knowledge and understanding of German language and culture will be enhanced through accessing a variety of texts, related to the theme and issues. Students will extend their ability to use and appreciate German as a medium for communication and creative thought and expression.

UNITS	1 Unit	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	German Continuers HSC	EXCLUSIONS	Nil		

# Prescribed Issues:

- Youth issues
- Relationships
- Identity

Students' knowledge and understanding of the issues are developed through tasks such as:

- Discussing issues in prescribed and related texts
- Presenting points of views on issues
- Analysing aural and written texts

ADDITIONAL INFORMATION	rescribed text: "Tschick"	
	Language HSC speaking examinations are held on Saturdays in September	
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-languages/extension/german-	
	<u>extension-syllabus</u>	

# **History Extension**

#### **HISTORY EXTENSION – HSC ONLY**

The History Extension course is about the nature of history, how and why historical interpretations are developed from different perspectives and approaches over time. The course offers a higher level of critical thinking than the Ancient History and Modern History courses with greater emphasis on historiography.

UNITS	1 Unit	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Year 11 Ancient History or Modem History is a	EXCLUSIONS			
	prerequisite for entry into Year 12 History				
	Extension.				
	Year 12 Ancient History or Modem History is a				
	co-requisite for Year 12 History Extension.				

#### HSC COURSE DESCRIPTION

#### **Constructing History**

Four key questions provide a framework for investigating the construction of history with a focus on histiography ideas and methodologies, which have evolved over time, to the investigation of these key questions:

- Who are the historians?
- What are the purposes of history?
- How has history been constructed, recorded and presented overtime?
- Why have approaches to history changed overtime?

#### Constructing History – Case Studies

Students develop their understanding of significant historiographical ideas and methodologies by exploring ONE case study, with reference to THREE identified areas of debate and the key questions above. The case study provides for an examination of histography within a specific historical context.

ADDITIONAL INFORMATION	istory Project	
	Students will undertake an individual investigative project, focusing on an area of changing historical interpretation.	
SYLLABUS LINK – NESA	http://syllabus.nesa.nsw.edu.au/history-extension-stage6/	

# **Information Processes and Technology**

# **INFORMATION PROCESSES AND TECHNOLOGY**

Information Process and Technology is the study of computer-based information systems. It focuses on information processes performed by these systems and the information technology that allows them to take place. Social, ethical, and non-computer procedures resulting from the processes are considered, Different types of information systems are studies. Through project work (a minimum of 40% of course time), students will create their own information systems to meet an identified need.

need.						
UNITS	2 Units	CATEGORY	Category A	COURSE FEE	\$20	
PRE-REQUISITE	Nil	EXCLUSIONS	Nil		·	
PRELIMINARY COURSE DESCRIPTIO	N	HSC COURSE	DESCRIPTION			
<ul> <li>Introduction to Information</li> <li>Tools for Information Proce</li> <li>Developing Information System</li> </ul>	sses	• Inforr	ct Management mation Systems and Database nunication Systems	es		
I		Option Stranc	ls:			
			<ul> <li>Transaction Processing Systems</li> </ul>			
		Decision Support Systems				
		Automated Manufacturing Systems				
		• Multi	media Systems			
ADDITIONAL INFORMATION	Nil					
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/technologies/information-processes-			rocesses-		
	<u>technology-syllabus</u>					

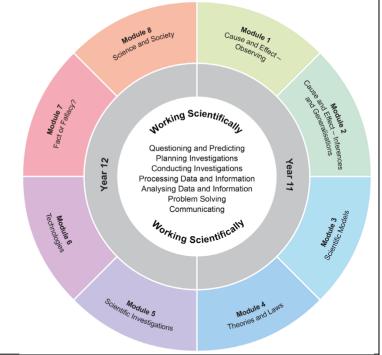
# **Investigating Science**

### **INVESTIGATING SCIENCE**

The study of Investigating Science in Stage 6 enables students to develop an appreciation and understanding of science as a body of knowledge and a set of valuable processes that provide humans with an ability to understand themselves and the world in which they live. Through applying Working Scientifically skills processes, the course aims to enhance students' analytical and problem-solving skills, in order to make evidence-based decisions and engage with and positively participate in an ever-changing, interconnected technological world.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	\$10
PRE-REQUISITE	Nil	EXCLUSIONS	Nil		
PRELIMINARY COURSE DESCRIPTION		HSC COURSE D	DESCRIPTION		

#### Year 11 **Working Scientifically** Module 1 – Cause and Effect - Observing Questioning and Predicting Module 2 – Cause and Effect – Inferences and Generalisations Planning Investigations Module 3 – Scientific Models • Conducting Investigations Module 4 – Theories and Laws Processing Data and Information Year 12 Analysing Data and Module 5 – Scientific Investigators Information Module 6 - Technologies • Problem Solving Module 7 – Fact or Fallacy? Communicating Module 8 - Science and Society



ADDITIONAL INFORMATION	Depth studies. At least one depth study must be included in both Year 11 and Year 12. A depth study is an investigation/activity that a student		
	completes individually or collaboratively that allows the further development of one or more concepts found within or inspired by the syllabus.		
SYLLABUS LINK – NESA	http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-science/investigating-science-2017		

# **Italian Beginners**

# **ITALIAN BEGINNERS**

The Preliminary and HSC courses provide students with the opportunity to develop their linguistic and intercultural knowledge and understanding, as well as the speaking, listening, reading and writing skills to communicate in Italian. Students will develop their communication skills in Italian and their knowledge and understanding of language and culture through the study of prescribed topics.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Nil	EXCLUSIONS	Italian Continuers.		
			Strict eligibility rules apply to the		
			with your teacher or refer to Lang	guage Courses Eligi	bility
			Criteria.		
PRELIMINARY COURSE DESCRIPTION		HSC COURSE I	DESCRIPTION		
In the Preliminary course, students will develop their knowledge and understanding of Italian across a range of topics. These will be explored through the integrated use of the four skills: listening, speaking, reading and writing.		understanding	urse, students will continue to develog of Italian through the four skills: list may cover new topics or more detai died.	tening, speaking, rea	ading and
ADDITIONAL INFORMATION	Nil				
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-languages/continuers/italian-				
	<u>continuers-syllabus</u>				

# **Japanese Continuers**

# JAPANESE CONTINUERS

The Preliminary and HSC courses have, as their organisational focuses, themes and associated topics. Students' skills in, and knowledge of, Japanese will be developed through tasks associated with a range of texts and text types, which reflect the themes and topics. Students will also gain an insight into the culture and language of Japanese-speaking communities through the study of a range of texts.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	NIL
PRE-REQUISITE	Nil	EXCLUSIONS	NS Strict eligibility rules apply to the study of this subject. Check with		ect. Check with
			your teacher or refer to Language Courses Eligibility Criteria.		y Criteria.

Themes covered throughout Preliminary and HSC courses:

#### Themes:

- the individual
- the Japanese-speaking communities
- the changing world.

Students' language skills are developed through tasks such as:

- conversation
- responding to an aural stimulus
- responding to a variety of written material
- writing for a variety of purposes
- studying Japanese culture through texts.

ADDITIONAL INFORMATION	Language HSC speaking examinations are held on Saturdays in August and September	
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-languages/continuers/japanese-	
	<u>continuers-syllabus</u>	

# **Japanese Extension**

# JAPANESE EXTENSION - HSC ONLY

The Extension course has a prescribed text and related issues as its organisational focus. Students' knowledge and understanding of Japanese language and culture will be enhanced through accessing a variety of texts, related to the theme and issues. Students will extend their ability to use and appreciate Japanese as a medium for communication and creative thought and expression.

UNITS	1 Unit	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Japanese Continuers HSC	EXCLUSIONS	Strict eligibility rules apply to the study of this subject. Check with your teacher or refer to Language Courses Eligibility Criteria.		

#### Prescribed Issues:

- Journeys
- Impact of the past
- Connectedness

Students' knowledge and understanding of the issues are developed through tasks such as:

- discussing issues in prescribed and related texts
- presenting points of views on issues
- analysing aural and written texts

ADDITIONAL INFORMATION	Prescribed text: "Your Name"		
	Language HSC speaking examinations are held on Saturdays in August and September		
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-languages/extension/japanese-		
	<u>extension-syllabus</u>		

# **Legal Studies**

# **LEGAL STUDIES**

The Preliminary course develops students' knowledge and understanding of the nature and functions of law and law-making, the development of Australian and international legal systems, the Australian constitution and the role of the individual. This is achieved by investigating, analysing and synthesising legal information and investigating legal issues from a variety of perspectives.

The HSC course investigates the key areas of law, crime, human rights and a variety of focus studies which consider how changes in societies influence law reform.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil	
			- ,	COURSE FEE	IVII	
PRE-REQUISITE	Nil	EXCLUSIONS	Nil			
PRELIMINARY COURSE DESCRIPTION		HSC COURSE DESCRIPTION				
<ul> <li>The Legal System</li> <li>The Individual and the Law</li> <li>The Law in Practice</li> </ul>		• TWO	e an Rights OPTIONS udies are chosen from:			
		<ul> <li>Consumers</li> <li>Family</li> <li>Global environmental protection</li> <li>Indigenous people</li> <li>Shelter</li> <li>Workplace</li> <li>World order.</li> </ul>				
ADDITIONAL INFORMATION	Nil					
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/hsie/legal-studies					

### **Mathematics Standard 2**

#### **MATHMETICS STANDARD 2**

The Mathematics Standard courses are focused on enabling students to use mathematics effectively, efficiently and critically to make informed decisions in their daily lives. They provide students with the opportunities to develop an understanding of, and competence in, further aspects of mathematics through a large variety of real-world applications for a range of concurrent HSC subjects.

Mathematics Standard 2 is designed for those students who want to extend their mathematical skills beyond Stage 5 but are not seeking the in-depth knowledge of higher mathematics that the study of calculus would provide. This course offers students the opportunity to prepare for a wide range of educational and employment aspirations, including continuing their studies at a tertiary level.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	The outcomes and content in the Stage 6		Students may not study any other	er Stage 6 Mathen	natics course in
	Mathematics Standard syllabus are written	<b>EXCLUSIONS</b> conjunction with Mathematics Standard.			
	with the assumption that students studying				
	this course will have engaged with all sub-				
	standards of Stage 5.1 and with the following				
	sub-standards of Stage 5.2 - Financial				
	mathematics, Linear relationships, Non-linear				
	relationships, Right-angled triangles				
	(Trigonometry), Single variable data analysis				
	and Probability.				
PRELIMINARY COURSE DESCRIPT	ION	HSC COURSE DESCRIPTION			
Financial Mathematics-Mor	ney Matters Statistical Analysis-Relative	<ul> <li>Financial Mathematics-Investments and Loans; Annuities</li> </ul>			
Frequency and Probability		• Stati	stical Analysis-Bivariate Data Analy	sis; The Normal D	oistribution
Data Analysis Measuremen	Data Analysis Measurement-Applications of measurement			gles; Rates and Ra	tios Networks-
Working with Time Algebra	Working with Time Algebra-Formulae and Equations		Network Concepts; Critical Path Analysis		
<ul> <li>Linear Relationships</li> </ul>		<ul> <li>Algel</li> </ul>	bra-Types of Relationships		
ADDITIONAL INFORMATION Nil					
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/pd	ortal/nesa/11-1	2/stage-6-learning-areas/stage-6-r	mathematics/mat	hematics-standard-
	2017				

# **Mathematics Advanced**

### **MATHEMATICS - ADVANCED**

The study of Mathematics Advanced in Stage 6 enables students to enhance their knowledge and understanding of what it means to work mathematically, develop their understanding of the relationship between 'real-world' problems and mathematical models and extend their skills of concise and systematic communication.

<ul> <li>Working with Functions</li> <li>Trigonometry and Measure of Angles</li> <li>Trigonometric Functions and Graphs</li> <li>Trigonometric Functions and Graphs</li> <li>Differential Calculus</li> <li>Applications of Differentiation</li> <li>Logarithms and Exponentials</li> <li>Probability and Discrete Probability Distributions</li> <li>Modelling Financial Situations</li> <li>Descriptive Statistics and Bivariate Data Analysis</li> <li>Random Variables</li> </ul>	UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
<ul> <li>Working with Functions</li> <li>Trigonometry and Measure of Angles</li> <li>Trigonometric Functions and Graphs</li> <li>Introduction to Differentiation</li> <li>Logarithms and Exponentials</li> <li>Probability and Discrete Probability Distributions</li> <li>Graphing Techniques</li> <li>Trigonometric Functions and Graphs</li> <li>Differential Calculus</li> <li>Integral Calculus</li> <li>Modelling Financial Situations</li> <li>Descriptive Statistics and Bivariate Data Analysis</li> <li>Random Variables</li> </ul>	PRE-REQUISITE	that students have achieved the outcomes in the core of the Stage 5.3 Mathematics course and demonstrated general competence in all	EXCLUSIONS	Cannot be studied concurrently v	with Standards Mat	hematics.
<ul> <li>Trigonometry and Measure of Angles</li> <li>Trigonometric Functions and Identities</li> <li>Introduction to Differentiation</li> <li>Logarithms and Exponentials</li> <li>Probability and Discrete Probability Distributions</li> <li>Trigonometric Functions and Graphs</li> <li>Differential Calculus</li> <li>Applications of Differentiation</li> <li>Integral Calculus</li> <li>Modelling Financial Situations</li> <li>Descriptive Statistics and Bivariate Data Analysis</li> <li>Random Variables</li> </ul>	PRELIMINARY COURSE DESCRIPTION		HSC COURSE	DESCRIPTION		
ADDITIONAL INFORMATION Nil	<ul> <li>Trigonometry and N</li> <li>Trigonometric Funct</li> <li>Introduction to Diffe</li> <li>Logarithms and Expenses</li> </ul>	leasure of Angles ions and Identities erentiation onentials	•	Trigonometric Functions and Gra Differential Calculus Applications of Differentiation Integral Calculus Modelling Financial Situations Descriptive Statistics and Bivarian		
	ADDITIONAL INFORMATION	Nil				

#### **Mathematics Extension 1**

**Inverse Trigonometric Functions** 

**Further Trigonometric Functions** 

**Working with Combinatorics** 

Rates of Change

#### **MATHEMATICS EXTENSION 1** The study of Mathematics Extension 1 in Stage 6 enables students to extend their knowledge and understanding of what it means to work mathematically, develop their skills to reason logically, generalise and make connections, and enhance their understanding of how to communicate in a concise and systematic manner. UNITS 1 Units for each of Preliminary and HSC Board **CATEGORY** Category A **COURSE FEE** Nil Developed Course. Studied in conjunction with Mathematics Advanced PRE-REQUISITE The course is constructed on the assumption **EXCLUSIONS** that students have achieved a mastery of the Cannot be studied concurrently with Standards Mathematics. skills of the Stage 5.3 Mathematics course and who are interested in the study of further skills and ideas in Mathematics. PRELIMINARY COURSE DESCRIPTION HSC COURSE DESCRIPTION **Topics covered:** Topics covered: **Further Work with Functions** Proof by Mathematical Induction **Polynomials** Introduction to Vectors

ADDITIONAL INFORMATION	Nil
ADDITIONAL IN ORWATION	1411
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-mathematics/mathematics-
	extension-1-2017

**Trigonometric Equations** 

**Further Calculus Skills** 

Applications of Calculus
The Binomial Distribution

# **Mathematics Extension 2 - HSC Only**

#### MATHEMATICS EXTENSION 2 – HSC ONLY

The study of Mathematics Extension 2 in Stage 6 enables students to extend their knowledge and understanding of working mathematically, enhance their skills to tackle difficult, unstructured problems, generalise, make connections and become fluent at communicating in a concise and systematic manner.

UNITS	Units for HSC Board Developed Course.     Studied in conjunction with Mathematics     Advanced and Mathematics Extension 1	CATEGORY	Category A	COURSE FEE	NIL
PRE-REQUISITE	This course is designed for students with a special interest in Mathematics who have shown that they possess special aptitude for the subject.	EXCLUSIONS	Nil		

#### **HSC COURSE DESCRIPTION**

Topics covered:

- The Nature of Proof
- Further Proof by Mathematical Induction
- Further Work with Vectors
- Introduction to Complex Numbers
- Using Complex Numbers
- Further Integration
- Applications of Calculus to Mechanics

ADDITIONAL INFORMATION	Nil
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-mathematics/mathematics-
	extension-2-2017

# **Modern History**

### **MODERN HISTORY**

The Preliminary course is designed to provide students with opportunities to investigate individuals, groups, events, institutions, societies and ideas in a range of historical contexts, as a background for their more specialised HSC studies.

The Year 12 course is structured to provide students with opportunities to apply their understanding of sources and relevant historiographical issues in the investigation of the modern world.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil	
PRE-REQUISITE	Nil	EXCLUSIONS	Nil			
PRELIMINARY COURSE DESCRIPTION		HSC COURSE D	DESCRIPTION			
<ul> <li>Investigating Modern Histor</li> </ul>	T <b>y</b>	The Historical	concepts and skills content is to be i	ntegrated througho	out the	
Historical Investigation		course. The to	pics provide the contexts through w	hich concepts and s	skills are to	
		be developed.	These provide the means by which	students are able to	engage in	
The Shaping of the Modern World		historical analysis and argument.				
		<ul> <li>The course comprises a study of:</li> <li>Core Study: Power and Authority in the Modern World 1919-1946</li> <li>ONE 'National Studies' topic</li> <li>ONE 'Peace and Conflict' topic</li> <li>ONE 'Change in the Modern World' topic.</li> </ul> Students are required to study at least ONE non-European/Western topic.				
ADDITIONAL INFORMATION	Nil		· · · · · · · · · · · · · · · · · · ·	· ·	•	
SYLLABUS LINK – NESA	http://syllabus.nesa.nsw.edu.au/modern-history-	/syllabus.nesa.nsw.edu.au/modern-history-stage6/				

### Music 1

### MUSIC 1

Music 1 builds on the Years 7-10 Mandatory course. It caters for students who have diverse musical backgrounds and musical interests, including those with an interest in popular music. It therefore attracts students with a formal musical background as well as those with only informal experience.

In the Preliminary and HSC courses, students will study: the concepts of music through the learning experiences of performance, composition, musicology and aural within the context of a range of styles, periods and genres.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Music mandatory course (or equivalent)	EXCLUSIONS	Music 2		

### **Topics covered in Preliminary and HSC courses:**

Students study at least three topics in each year of the course. Topics are chosen from a list of 21, which cover a range of styles, periods and genres. For Further detail can be obtained from the syllabus document.

ADDITIONAL	In addition to core studies in performance, composition, musicology and aural, students select three electives from any combination of
INFORMATION	performance, composition and musicology. These electives must represent each of the three topics studied in the course.
	Students selecting Composition and Musicology electives will be required to compile a portfolio of work as part of the process of preparing
	a submitted work. The portfolio may be requested by the NESA to validate authorship of the submitted work.
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-creative-arts/music-1-syllabus

# Music 2

### **MUSIC 2**

Music 2 builds on the Years 7-10 Mandatory and Elective courses and focuses on the study of Western art music. It assumes students have a formal background in music, have developed music literacy skills and have some knowledge and understanding of musical styles.

In the Preliminary and HSC courses, students will study:

The concepts of music through the learning experiences of performance, composition, musicology and aural within the context of a range of styles, periods and genres.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	Nil	
PRE-REQUISITE	Music Additional Study course (or equivalent)	EXCLUSIONS Music 1				
PRELIMINARY COURSE DESCRIPTION		HSC COURSE I	DESCRIPTION			
In the preliminary course students study the Mandatory Topic, Music from 1600-1900 covering a range of content and one Additional Topic.		In the HSC course, the Mandatory Topic is Music of the Last 25 Years (Australian focus).  Students again pick their own additional topic.  The musical content is predominantly Art Music.				
ADDITIONAL INFORMATION	In addition to core studies in performance, composition, musicology and aural, students nominate one elective study in Performance, Composition or Musicology. Students selecting Composition or Musicology electives will be required to compile a portfolio of work as part of the process of preparing a submitted work. The portfolio may be requested by NESA to validate authorship of the submitted work.  All students will be required to develop a composition portfolio for the core composition.				olio of work as part	
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/por	tal/nesa/11-12/	stage-6-learning-areas/stage-6-crea	tive-arts/music-2-s	syllabus	

# **Music Extension - HSC Only**

### **MUSIC EXTENSION – HSC ONLY**

The HSC Music Extension course builds on Music 2 and assumes a high level of music literacy and aural ability as well as advanced performance, composition or musicology skills.

Students will specialise in either performance, composition or musicology and will follow an individual program of study which will be negotiated between the teacher and student.

UNITS	1 Unit	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Music 2 (studied concurrently with HSC	<b>EXCLUSIONS</b>	Music 1		
	course of Music 2)				

#### HSC COURSE DESCRIPTION

This course provides students with the opportunity to study the concepts of music through the learning experiences of performance, composition, musicology and aural within the context of a range of styles, periods and genres. Students nominate one elective study in performance, composition or musicology. This course assumes students have some prior knowledge of music.

ADDITIONAL INFORMATION	Students selecting Composition or Musicology as their area of specialisation will be required to compile a portfolio of work as part of the process of preparing a submitted work. The portfolio may be requested by the NESA to validate authorship of the submitted work.
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-creative-arts/music-extension-syllabus

# Personal Development, Health and Physical Education

## PERSONAL DEVELOPMENT. HEALTH AND PHYSICAL EDUCATION

The aim of PDHPE at Stage 6 is to develop in each student a capacity to think critically about key issues related to health and physical activity in order to make informed decisions that support and contribute to healthy, active lifestyles and communities.

UNITS	2 Unit	CATEGORY	Category A	COURSE FEE	Nil
PRE-REQUISITE	Nil	EXCLUSIONS	6 Nil		
PRELIMINARY COURSE DESCRIPTION		HSC COURSE I	DESCRIPTION		

#### PRELIMINARY COURSE DESCRIPTION

### **Preliminary Course**

#### Core Strands (60% total)

- Better Health for Individuals (30%)
- The Body in Motion (30%)

#### Options (40% total)

Select two of the following options:

- First Aid (20%)
- Composition and Performance (20%)
- Fitness Choices (20%)
- Outdoor Recreation (20%)

The Preliminary course examines a range of areas that underpin health and physical activity. This includes how people think about health and physical activity, the management of personal health and the basis for how the body moves.

Students have the opportunity to select from a range of practical options in areas such as first aid, outdoor recreation, composing and performing and fitness choices.

In the HSC course, students focus on major issues related to Australia's health status. They also explore factors that affect physical performance. Students undertake optional study from a range of choices.

This includes investigating the health of young people or of groups experiencing health inequities. In other options, students focus on improved performance and safe participation by learning about advanced approaches to training or sports medicine concepts.

#### HSC Course

#### Core Strands (60% total)

- Health Priorities in Australia (30%)
- Factors Affecting Performance (30%)

#### Options (40% total)

Select two of the following options:

- The Health of Young People (20%)
- Sport and Physical Activity in Australian Society (20%)
- Sports Medicine (20%)
- Improving Performance (20%)
- Equity and Health (20%)

<b>ADDITIONAL INFORMATION</b> Students are not assessed at any point on their sporting ability or fitness lev
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http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/pdhpe/pdhpe-syllabus SYLLABUS LINK - NESA

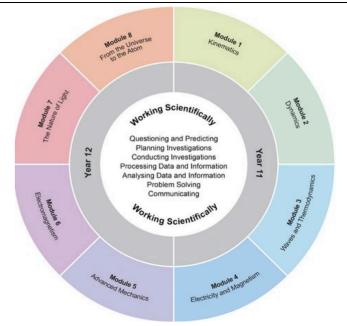
# **Physics**

### **PHYSICS**

The study of Physics in Stage 6 aims to enable students to develop an appreciation and understanding of the application of the principles of physics, and of the theories, laws, models, systems and structures of physics. It also enables students to apply Working Scientifically skills processes to examine physics models and practices and their applications.

PRELIMINARY COURSE DESCRIPTION		HSC COURSE I	DESCRIPTION		
PRE-REQUISITE	Nil	EXCLUSIONS	Nil		
UNITS	2 Units	CATEGORY	Category A	COURSE FEE	\$10

#### Year 11 **Working Scientifically** Module 1 – Kinematics Questioning and Predicting Module 2 – Dynamics Planning Investigations Module 3 – Waves and Thermodynamics Conducting Investigations Module 4 – Electricity and Magnetism Processing Data and Information Year 12 Analysing Data and Module 5 – Advanced Mechanics Information Module 6 – Electromagnetism Problem Solving Module 7 – The Nature of Light Communicating Module 8 – From the Universe to the Atom



ADDITIONAL INFORMATION	Depth studies. At least one depth study must be included in both Year 11 and Year 12. A depth study is an investigation/activity that a student completes individually or collaboratively that allows the further development of one or more concepts found within or inspired by the syllabus.	
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-science/physics-2017	

# **Society and Culture**

### **SOCIETY AND CULTURE**

The central goal of Society and Culture Stage 6 is the development of social and cultural literacy and a clear understanding of the interaction of persons, societies, cultures, environments and time. Society and Culture draws on cross-disciplinary concepts and social research methods from anthropology; communication; cultural and media studies; philosophy; social psychology; and sociology.

Society and Culture has direct relevance to the immediate needs of students and to their future lives by enabling them to develop understanding of:

- Themselves
- Their own society and culture
- The societies and cultures of others.

Society and Culture encourages students to manage their own learning, including opportunities to experience working within teams. In allowing students to study in areas of direct relevance to their lives, Society and Culture contributes greatly to the promotion of lifelong learning, providing opportunities for students to acquire a range of skills to support such learning.

The study of Society and Culture prepares students for adult life by developing knowledge, understanding, skills and other qualities associated with effective citizenship at local, national, regional and global levels. In so doing, it forms a basis for moving towards a more just society through positive participation in community life and attaining social and cultural literacy.

UNITS	2 Unit	CATEGORY	Category A	COURSE FEE	Nil	
PRE-REQUISITE	Nil	EXCLUSIONS Nil				
PRELIMINARY COURSE DESCRIPTION		HSC COURSE DESCRIPTION				
<ul> <li>The Social and Cultural World</li> <li>Personal and Social Identity</li> <li>Intercultural Communication</li> </ul>		Core  Social and Cultural Continuity and Change  The Personal Interest Project Depth Studies  Two to be chosen from: Popular Culture Belief Systems and ideologies Social Inclusion and Exclusion Social Conformity and Nonconformity				
ADDITIONAL INFORMATION	Students develop an understanding of research methods and undertake research in an area of particular interest to them.  These findings are presented for external assessment in the Personal Interest Project, and this result makes up 40% of their final result.					
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/hsie/society-culture					

# **Software Design and Development**

## SOFTWARE DESIGN AND DEVELOPMENT

The Preliminary course introduces students to the basic concepts of computer software design and development. It does this by looking at the different ways in which software can be developed, the tools that can be used to assist in this process and by considering the interaction between software and the other components of the computer system.

The HSC course builds on the Preliminary course and asks students to develop and document software using a variety of data structures and language facilities. Through this they will learn to solve a number of interesting and relevant software problems.

UNITS	2 Units	CATEGORY	Category A	COURSE FEE	\$20	
PRE-REQUISITE	Nil	EXCLUSIONS	LUSIONS Nil			
PRELIMINARY COURSE DESCRIPTION	HSC COURSE DESCRIPTION					
Concepts and Issues in the Design	Development and Impact of Software Solutions					
<ul> <li>Social and ethical issues</li> </ul>		<ul> <li>Social an</li> </ul>	d ethical issues			
<ul> <li>Hardware and software</li> </ul>		<ul> <li>Applicati</li> </ul>	on of software development appr	roaches		
Software development approa	aches	Software De	velopment Cycle			
Introduction to Software Develop	pment	Defining and understanding the problem				
Defining the problem and planning software solutions		<ul> <li>Planning and design of software solutions</li> </ul>				
Building software solutions		<ul> <li>Implementation of software solutions</li> </ul>				
Checking software solutions		<ul> <li>Testing and evaluation of software solutions</li> </ul>				
Modifying software solutions		Maintenance of software solutions				
Developing Software Solutions		Developing a Solution Package				
Evolution of programming lan	guage	Options				
		01 Programming Paradigms				
02 The interrelationship between software and hardware				and hardware		
ADDITIONAL INFORMATION	Practical experience should occupy a minimum of 20% of the Preliminary course, and a minimum of 25% of the HSC course. There				ourse. There	
	are software specifications and methods of algorithm description prescribed.					
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/technologies/software-design-development					

# **Studies of Religion**

# **STUDIES OF RELIGION 1**

Studies of Religion 1 promote a critical awareness, understanding and application of the nature of religion and the influence of religious traditions, beliefs and practices on individuals and society.

The particular focus is on the way in which a religious tradition, as an integrated belief system, provides a distinctive answer to the enduring questions of human existence. The study of a particular religious tradition enables students to demonstrate an appreciation of the diversity of expression within, and the underlying unity of, the whole religious tradition.

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UNITS	1 Unit	CATEGORY	Category A	COURSE FEE	Nil	
PRE-REQUISITE	Nil	EXCLUSIONS Studies of Religion II				
PRELIMINARY COURSE DESCRIPTION			DESCRIPTION			
The nature of religion and beliefs including Australian beliefs and spiritualties, as a distinctive response to the human search for the meaning of life.  Two religious tradition studies:  Buddhism, and Hinduism,  Students learn about: origins, principal beliefs, sacred text and writings, core and ethical teachings and personal devotion in the home.		<ul> <li>Religion and belief systems in Australia post - 1945</li> <li>Two religious depth studies:</li> <li>Buddhism and Hinduism:</li> <li>Students learn about significant people and ideas, ethics and significant practices in the life of adherents.</li> </ul>				
ADDITIONAL INFORMATION	DN Nil					
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/hsie/studies-of-religion-1					

# **Textiles and Design**

## **TEXTILES AND DESIGN**

This course provides students with the opportunity to learn about design including fabric colouration, historical design, cultural design factors and contemporary designers. Students learn about fibres, yarns, fabrics, innovations and emerging textile technologies, environmental sustainability, current issues and the Australian Textile Industry. Practical experiences, experimenting and product manufacturing are integrated throughout the content areas and include the completion of textile projects. Throughout Year 12 students develop a Major Textiles Project including supporting documentation.

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UNITS	2 Units	CATEGORY	Category A	COURSE FEE	\$30 per year, plus materials			
PRE-REQUISITE	Nil	EXCLUSIONS Nil						
PRELIMINARY COURSE DESCRIPTION		HSC COURSE	DESCRIPTION					
<ul> <li>Design</li> <li>Properties and Performa</li> <li>The Australian Textiles, (TCFAI)</li> </ul>	ance of Textiles Clothing, Footwear and Allied Industries	<ul> <li>Design</li> <li>Properties and Performance of Textiles</li> <li>The Australian Textiles, Clothing, Footwear and Allied Industries</li> <li>Major Textiles Project</li> </ul>						
ADDITIONAL INFORMATION	In the Preliminary course, practical experiences should be integrated into the Design and Properties and Performance of Textiles areas of study, as project works. In the HSC course, the major textiles project allows students to develop a textile project that reflects either a cultural, historical or contemporary aspect of design. Students are expected to draw upon the knowledge and understanding of design, properties and performance and the TCFAI developed in the Preliminary course.  Completion of Major Project.			reflects either a				
SYLLABUS LINK – NESA	https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/technologies/textiles-and-design-syllabus							

# **Visual Arts**

**SYLLABUS LINK – NESA** 

# **VISUAL ARTS**

Visual Arts involves students in art making, art criticism and art history. Students develop their own artworks, culminating in a 'Body of Work' or BOW in the HSC course. Students critically and historically investigate artworks, critics, historians and artists from Australia as well as those from other cultures, traditions and times. The Preliminary course is broadly focused, while the HSC course provides for deeper and more complex investigations. While the course builds on Visual Arts courses in Stages 4 and 5, it also caters for students with more limited experience in Visual Arts.

UNITS	2 Units	CATEGORY	Category A COURSE FEE \$50 per year plus mate			
PRE-REQUISITE	EXCLUSIONS	Projects developed for assessment in one subject are not to be used either in full or in part for assessment in any other subject.				
PRELIMINARY COURSE DESCRIPTION		HSC COURSE	DESCRIPTION			
<ul> <li>The nature of practice in art making, art criticism and art history through different investigations</li> <li>The role and function of artists, artworks, the world and audiences in the art world</li> <li>The different ways the visual arts may be interpreted and how students might develop their own informed points of view</li> <li>How students may develop meaning and focus and interest in their work</li> <li>Building understandings over time through various investigations and working in different forms.</li> </ul>		<ul> <li>How students may develop their own practice of art making, art criticism, and art history</li> <li>How students may develop their own informed points of view in increasingly independent ways and use different interpretive frameworks in their investigations</li> <li>How students may learn about the relationships between artists, artworks, the world and audiences within the art world and apply these to their own investigations</li> <li>How students may further develop meaning and focus in their work.</li> </ul>				
ADDITIONAL	Preliminary Course					
INFORMATION	Artworks in at least two expressive for		•			
	A broad investigation of ideas in art cr	iticism and art h	istory			
	HSC Course	L (DOM)				
	<ul> <li>Development of a Body of Work (BOW)</li> <li>A minimum of five Case Studies (4-10)</li> </ul>		isuai Arts Process	Diary (VAPD)		
	· ·	•	t criticism and art	history		
	- Deeper and more complex investigation	Deeper and more complex investigations of ideas in art criticism and art history.				

https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-creative-arts/visual-arts-syllabus