2027
YEAR 9
CURRICULUM GUIDE

Hume Anglican Grammar
Donnybrook Campus

Wisdom through Christ

Anglican Grammar Hume

Aim High, Be Proud

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Year 9 Course Overview

The Year 9 Curriculum at Hume Anglican Grammar strikes a balance between building on the foundations established in Years 7 and 8 and encouraging students to pursue their interests, taking increased responsibility for their curriculum choices. Students in Year 9 continue to undertake lessons in the core subject areas of English, Mathematics, Science and Humanities as prescribed by the Australian Curriculum. Further, Health and Physical Education and Religious and Values Education are compulsory. These core and compulsory subjects are supported by a range of electives where students can explore and experiment. Students choose two electives per semester. It is important that students gather information about their choices and select subjects based on interests, strengths and future goals.

A general Year 9 course will follow the structure below:

Semester 1	English	Mathematics	Science	HPE	Humanities	RAVE	Elective 1	Elective 2
Semester 2	English	Mathematics	Science	HPE	Humanities	RAVE	Elective 1	Elective 2

All students follow a ten-day timetable that consists of five 60-minute periods per day. A full 10-day span is called a cycle. See the following lesson allocations:

English	Eight periods per cycle
Mathematics	Eight periods per cycle
Science	Seven periods per cycle
Humanities	Eight periods per cycle
Health & Physical Education	Four periods per cycle
Careers	One period per cycle
Electives x 2	12 periods per cycle (six periods each)

**A pastoral care program is delivered via extended Homeroom sessions, Chapel and Assembly.*

Subject Selection Timeline

For further information contact the Head of Teaching and Learning – Secondary or relevant Head of Faculty/Subject Coordinator – see 'Contacts' page.

Date	Action
Final Week of Term 2	Curriculum Guides emailed to students and parents.
Week 2, Term 3 **Tuesday 21 July**	Attend Subject Selection Information Evening with parents.
Week 2, Term 3	**Web preferences open** for students Years 8-11 for subject selection.
Week 3, Term 3 **Friday 31 July**	Web preferences **close.**
Early November	Confirmation of subjects sent to students.

Core Subject Information

English

Overview

English is structured around three core strands: language, literacy and literature. Together these strands enable students to have greater skills and knowledge of speaking, listening, reading and writing. Texts and language are central and essential concepts. This means that the focus of English is on both the analysis and interpretation of texts and the creation of them. The use of language is purposeful and built around an understanding of linguistic concepts. Students learn to appreciate, enjoy and use language, developing a sense of its richness and its power to evoke feelings, to form and convey ideas, to inform, to discuss, to persuade, to entertain and to argue. The English course seeks to build upon the key skills and knowledge developed in previous year levels.

Duration

This subject runs for TWO semesters.

Educational Objectives

- Participate in dynamic and inquisitive classrooms, in activities that challenge them to form ideas and build upon the ideas of others, solving problems and justifying opinions
- Read increasingly complex and sophisticated texts that challenge them to interact with literature as a reflection of our world, developing and elaborating on their opinions as a means of extending inferential and critical thinking and evaluative skills
- Understand how to use language features to create different levels of meaning
- Understand how individual interpretations can vary
- Demonstrate how manipulating language features and images can create innovative texts
- Create texts that respond to issues, interpreting and integrating ideas from other texts
- Make presentations and contribute actively to class and group discussions, comparing and evaluating responses to ideas and issues
- Edit for effect, selecting vocabulary and grammar that contribute to the precision and persuasiveness of texts and using accurate spelling and punctuation

Topics of Study

- Text studies – a range of novels, plays, short stories, documentaries, films, poetry and other multimodal texts
- Argument and language analysis
- Language development, including vocabulary, grammar and sentence structure
- Writing for a range of purposes and audiences
- Oral presentations

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Text analysis essays and comparative writing tasks
- Language (grammar) tasks
- Writing folio pieces including creative writing
- Argument and language analysis tasks
- Oral presentations
- Creative writing tasks
- End-of-semester examinations

Humanities

Overview

Humanities is the study of human societies, environments, people and their cultures in the past and the present. Humanities (History, Geography, Economics and Business, Civics and Citizenship, and Religious and Values Education) provides a framework for developing the key ideas and concepts that enable students to understand the way in which people and societies have organised their world under particular conditions and made meaning of it. The study of Business and Economics introduces students to money management and financial risk. The study of Civics and Citizenship provides the knowledge and skills conducive to functioning as an active member of society. This includes elements of the study of Australia's legal system, tourism and finances.

Duration

This subject runs for TWO semesters.

Educational Objectives

- Chronology, terms and concepts
- Historical questionings and research
- Analysis and use of sources
- Perspectives and interpretations
- Explanation and communication
- Investigative analysis of Issues
- Analyse data in various forms
- Economic reasoning and decision-making
- Explain patterns on the surface of the earth
- Application of concepts such as location, distribution, spatial interaction, scale, movement, spatial change over time and spatial association
- Study of the physical and human environments from a spatial perspective

Topics of Study

- RAVE: Justice and Society, Justice and the Bible
- History: The Industrial Revolution and World War I
- Geography: Food Security
- Business and economics: Economic decision making

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Topic tests
- Historical text analysis response
- Oral presentations
- Short investigative projects
- Essays
- Annotated visual displays
- Research reports
- Multimedia presentations and posters
- End-of-semester examinations

Mathematics

Overview

Students explore new content in the areas of Number and Algebra, Measurement and Geometry, and Statistics and Probability. The proficiencies of *Understanding, Fluency, Problem Solving and Reasoning* are an integral part of the content across these three strands. They reinforce the significance of working mathematically within the content and describe how it is explored or developed. We aim to provide a challenging and enriching course suitable for every student. Accordingly, students are grouped in two strands –– Mainstream and Advanced - based on Year 8 results. Mainstream students study the core Australian Curriculum Mathematics course for Year 9 while being in a class appropriate to their capabilities, providing sound and specific preparation for senior year levels. Advanced mathematics students study from the Year 10 Australian Curriculum course. The structure of the two-strand model is dynamic and flexible, with teachers continually evaluating and being responsive to each individual student's progress. During the year, any movement of students between classes would occur only after teacher and parent consultation.

Duration

This subject runs for TWO semesters.

Educational Objectives

- Solve problems involving simple interest
- Identify congruence and scale factors in similar figures and explain similarity of triangles
- Recognise the connections between similarity and the trigonometric ratios
- Compare techniques for collecting data in primary and secondary sources
- Make sense of the position of the mean and median in skewed, symmetric and bi-modal displays to describe and interpret data
- Apply the index laws to numbers and express numbers in scientific notation
- Expand binomial expressions
- Find the distance between two points on the Cartesian plane and the gradient and midpoint of a line segment
- Sketch linear and non-linear relations
- Use Pythagoras' Theorem and trigonometry to find unknown sides of right-angled triangles
- Calculate relative frequencies to estimate probabilities, list outcomes for two-step experiments and assign probabilities for those outcomes
- Construct histograms and back-to-back stem-and-leaf plots

Topics of Study

- Financial mathematics
- Pythagoras' theorem
- Algebra
- Measurement
- Linear relationships
- Geometric reasoning
- Trigonometry
- Statistics and probability
- Non-Linear relationships and proportion

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Written skills and analysis tests
- Assignments/problem solving exercises and homework sheets
- End-of-semester examinations

Health and Physical Education

Overview

Students work towards developing proficiency in a range of high-level movement and manipulative skills and focus on identifying and implementing ways of improving the quality of their performance during games, physical activities and sports. They investigate different components of fitness, how these vary between activities and how they contribute to the wellbeing of people at different stages of their lives. Students also develop and understanding of the Physical Activity and Sedentary Behaviour Guidelines and look at the barriers and enables in relation to physical activity. They will also look at developing an understand of skill classification for the various movement skills and finally students will be introduced to basic First Aid concepts.

Duration

This subject runs for TWO semesters.

Educational Objectives

- Students explore Road safety and the associated risks with unlawful and unsafe behaviours, while using motor vehicles, bikes and e-scooters
- Students study the risks of drugs, alcohol and vaping, including the short- and long-term effects on the body
- Students study the risks of gambling and the effects of addiction to technology and risk minimisations strategies
- Students perform complex movement and manipulative skills proficiently and evaluate individual and group tactics, and movement patterns
- Maintain regular participation in moderate to vigorous physical activity
- They assume responsibility for conduct of aspects of a sporting competition in which roles are shared and display appropriate sporting behaviour
- Students participate in a Frist Aid unit, aimed at preserving life, preventing harm and promoting recovery

Topics of Study

- Lacrosse
- Futsal
- Athletics
- Cricket
- European Handball
- Ultimate Frisbee
- Touch Rugby
- Lifestyle, leisure and recreation
- Hockey
- Fitness testing

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Skills assessments
- Project work
- Tests

Science

Overview

The key learning area of science aims to help students develop an understanding of the physical world they live in and its place in the universe, of life in all of its many forms, of themselves and of the technology that has evolved out of scientific experimentation in order to enhance our ability to explore, measure, test, analyse, evaluate and communicate.

Duration

This subject runs for TWO semesters.

Educational Objectives

- Become familiar with and be able to apply the language and fundamental concepts of science
- Develop, through laboratory work, manipulative skills and processes associated with sound scientific practice
- Use the experimental approach to problem-solving
- Develop the skills and confidence to access, process and communicate information so they may be scientifically informed and aware
- Build an understanding and appreciation of their world in order to develop a system of values characterised by great respect for living things and a commitment to nurture the natural world
- Develop skills in analytical and critical thinking to acquire the skill of proposing a hypothesis then designing and evaluating an experiment to test it, but also the skill of applying their key knowledge and key concepts to explain or predict new phenomena

Topics of Study

- Materials and the atom
- Chemical reaction types
- Light Electromagnetic radiation
- The brain and the nervous system
- Coordination and control
- Electricity
- Bacteria, viruses and disease

Methods of Assessment

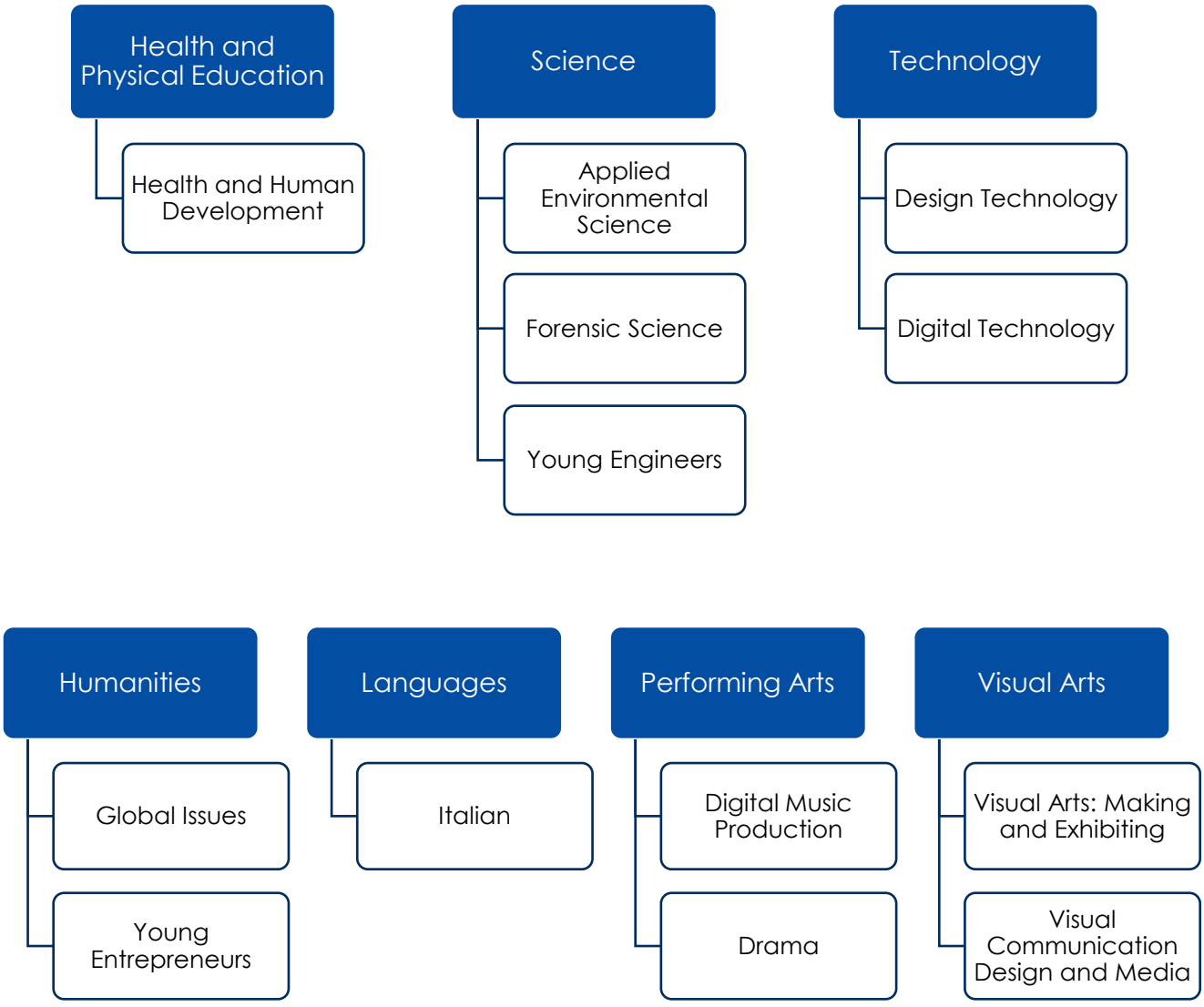
Students will complete several assessment tasks over the semester. These will include:

- Topic tests
- Practical reports
- Activity book assessment
- Projects and assignments
- End-of-semester examinations

Elective Subject Information

A vital part of the progression towards the Victorian Certificate of Education in Years 11 and 12 is the provision of an elective program at Years 9 and 10. Electives permit students to try new subject areas and elaborate on previous skills. Students choose two per semester, a total of four.

Note: All electives run for one semester with the exception of Italian which must be taken for two. While we aim to run all courses and give each student their first preferences, this may not always be possible due to timetabling constraints or low enrolments.



Applied Environmental Science

Overview

The Year 9 Applied Environmental Science subject is an interdisciplinary subject that draws upon skills from across all disciplines of science to propose solutions to contemporary environmental issues. In this subject, students explore global biogeochemical cycles and consider how human activity influences these cycles. They learn about contributors to imbalances in the carbon cycle and how this drives global warming and climate change, and research current and emerging scientific innovations that set out to mitigate these impacts. Students explore changes to Earth's systems because of human activity and investigate the impact this has on biodiversity. They explore the relationship between the environment and food and water security and propose solutions to manage food and water resources to sustain Earth's systems.

Duration

This subject runs for ONE semester.

Educational Objectives

- Describe how carbon moves through Earth's four systems (hydrosphere, biosphere, lithosphere, and atmosphere)
- Identify different examples of non-renewable energy sources, including fossil fuels and explain the consequences of fossil fuel combustion on the carbon cycle
- Describe the interactions between solar energy that is absorbed, re-emitted and reflected by atmospheric gases and how these interactions contribute to natural and enhanced greenhouse effects
- Explore impacts of climate change on ecosystems
- Identify different examples of renewable energy sources and explain how they can be utilised in building a sustainable energy future that produces lower greenhouse gas emissions
- Define and identify distinct categories of biodiversity
- Explore human and non-human threats to biodiversity
- Describe the different conservation categories for ranking species according to their risk of extinction
- Identify strategies for maintaining and growing populations
- Identify challenges to supplying adequate and affordable food on a global scale.
- Explore options for improving food security
- Explain how water moves through Earth's four systems
- Explore options for decreasing water demand and improving water-use efficiency

Topics of Study

- Climate change
- Sustainable use of energy resources
- Threats to biodiversity
- Food and water security

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Topic tests
- Student designed investigations
- Analysis of case studies
- Scientific posters

Design Technology

Overview

Year 9 Design Technology provides students with an engaging and hands-on learning experience that integrates theoretical knowledge with practical skills in materials science, design thinking, and digital technologies. By investigating the properties and applications of materials, students develop a deeper understanding of the role of technology in shaping the world around them while fostering creativity, innovation, and responsible citizenship.

Teaching and learning in this subject builds upon the foundational knowledge acquired in earlier years, aiming to deepen students' understanding of materials, their properties, and their applications in design and production processes.

Students will take on the role of a designer, creating a folio representing their understanding of the Design Process.

Duration

This subject runs for ONE semester.

Educational Objectives

- Identifying, investigating and researching design issues
- Experimenting, exploring, and developing their understanding of materials, and material properties
- Engineering and manufacturing prototypes and design solutions
- Evaluating and testing

Topics of study

- 3D Printing
- Lasercutting
- Woodwork
- Textiles
- Acrylic
- Paper

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Design Folio
- Prototype
- Evaluation
- End of semester examination

Digital Music Production

Overview

This hands-on course explores the intersection of music, technology, and live performance. Students will develop practical skills in stage production, sound and lighting design, computer-based music creation, and performance with digital tools. The course builds both musical and industry-relevant technical skills.

Students will compose music using samples and audio recordings, learning how to shape sound and apply the elements of music creatively. In performance projects, students will work in groups to enhance their music using technology. They'll also gain experience in operating stage equipment including lighting consoles and sound desks.

Duration

This subject runs for ONE semester.

Educational Objectives

- Perform in ensembles using instruments and digital technology
- Use music software and hardware to sample, edit, and produce compositions
- Understand the evolution and application of music technology
- Operate a range of digital music equipment including Launch Pads, Drum Machines, and Guitar Effects Pedals
- Gain experience in stage production using mixing desks, lighting consoles, speakers, amplifiers, and DMX lighting control

Topics of Study

- Technical production and sound engineering
- History of Recording, and impact of Music Technology
- Music composition using digital tools
- Group performance and live sound
- Introduction to stage lighting

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Digital music composition folio
- Structured questions and extended response: theory and history
- Group performance and live event production
- An end-of-semester examination

Digital Technology

Overview

Digital Technology in Year 9 develops students' knowledge of computer programming. Beginning with event-based programming, students learn and apply coding languages to develop solutions to various problems. Students then explore website design principles and work as a group to design their own website. The course concludes with an introduction to databases using Microsoft Excel and Infographics. Students will learn how companies use data to help meet their objectives, and how to create a data visualisation of their own.

Duration

This subject runs for ONE semester.

Educational Objectives

- Programming in Small Basic and RobotProg
- Designing and developing website solutions
- Editing a range of data, including digital images and raw quantitative data using Microsoft Excel
- Designating tasks and managing responsibilities amongst members of a team

Topics of Study

- Investigating the role of hardware and software in managing, controlling and
- securing data
- The nature of data, compression and its role in information
- Qualitative and quantitative data collection, management and storage
- Data Visualisation to demonstrate and address complex problems
- Solving real world problems
- Programming
- Web development
- Coding

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Topic tests
- Assignments
- Problem solving tasks
- Regular homework tasks
- Projects
- Open-ended student guided tasks
- End-of-semester examination

Drama

Overview

Year 9 Drama encourages students to become confident communicators, critical and creative thinkers, and effective collaborators. Building on their learning from Year 8 Performing Arts, students explore a range of theatre styles and their associated conventions. Through practical workshops, they develop and refine their expressive skills, work with scripts and scripted performance, engage with a range of play-making techniques, and apply the elements of theatre composition to their own work and that of other dramatists. Students collaborate to devise and rehearse individual, small group, and ensemble performances in various theatre styles, engaging in a range of production roles throughout the process.

Duration

This subject runs for ONE semester.

Educational Objectives

- Refine their performance skills throughrole play, improvisation, scripted drama, characterization, rehearsal skills and storytelling
- Explore a range of performance and theatre styles and apply associated conventions
- Refine their application of expressive skills of voice, gesture, movement and facial expression through practical workshops
- Explore and apply play-making techniques when devising their own Drama works
- Develop their understanding of and apply the elements of Drama to their own Drama making
- Develop an understanding of a variety of production roles when devising an ensemble performance

Topics of Study

- Theatre styles
- Expressive skills
- Elements of Drama
- Play-making techniques
- Production roles

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Participation in practical Drama workshops
- Devising, rehearsing and performing self-devised Drama works of various theatre styles
- Drama journal – analysing class activities and personal growth
- End-of-semester examination

Forensic Science

Overview

Forensics is the term given to an investigation of a crime using scientific means. It is also used as the name of the application of scientific knowledge to legal matters. Forensics aims to introduce and develop students' skills, understanding and knowledge of scientific processes and their application to forensic science. The relationship between science, the environment, and our everyday world is an important and meaningful area of study in this course.

Duration

This subject runs for ONE semester.

Educational Objectives

- Students will communicate scientific investigations and information clearly
- To design experiments by collecting data systematically, formulating questions and drawing conclusions
- Promote students' critical thinking skills in the context of scientific inquiry
- Develop the ability to apply logical thinking in different situations and find solutions to problems
- Maintain safe practices; work independently and collaboratively as appropriate
- Construct models and visual aids that demonstrate scientific ideas

Topics of Study

- The history of scientific forensic techniques
- Different forensic professionals
- Types of physical and trace evidence
- Fingerprinting
- Crime scene analysis
- Ballistics
- Tool marks
- Blood splatter
- Forgery
- Chromatography
- Real-life case studies

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Topic tests
- Practical reports
- Bookwork assessment
- Individual and group projects
- End-of-semester examination

Global Issues

Overview

Global Issues is the study of contemporary social, environmental and economic issues that affect Australia and the rest of the world. The study of Global Issues will introduce students to challenges faced by society, plus develop their knowledge and understanding of key political global conflicts and their impacts. Throughout the course, students hone their research abilities of which they use to explore a series of current affairs topics such as the Cost-of-living Crisis, continued impacts of colonisation, war and conflict.

Duration

This subject runs for ONE semester.

Educational Objectives

- Define key concepts and terms and use them appropriately
- Gather and interpret statistical data on the selected global issue/s
- Identify and discuss factors that influence the selected global issue/s
- Identify trends, patterns, similarities and differences in economic data and other information
- Develop research skills
- Evaluate the costs and benefits associated with action taken to address the selected global issue/s
- Access and synthesise information gathered from a range of sources and draw conclusions

Topics of Study

- Equality Rights
- Global Indigenous Peoples
- Global trade and its political and economic implications
- Distribution of income and global income inequality
- War and conflict
- Women's Rights and the Suffragette Movement

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Oral presentations
- Short investigative projects
- Extended Responses
- Essays
- Annotated visual displays
- Short research reports
- End-of-semester examination

Health and Human Development

Overview

Health and Human Development aims to equip students with the range of skills and knowledge they will require to maintain healthy lifestyles as they move into adulthood. In Year 9, students will develop their understanding of the concept of health and they will investigate the development of humans across the lifespan. Students will examine positive and negative risks taken during youth, such as using drugs, alcohol and energy drinks, and consider strategies to minimise potential harms. Students will learn to analyse the health status of population groups and consider the various factors that influence health.

Duration

This subject runs for ONE semester.

Educational Objectives

- Decision making and assertiveness skills
- Understanding health and wellbeing as a concept with varied and evolving perspectives and definitions
- The ability to describe the health status of an Australian population group
- Health report writing skills
- Analysing basic health data

Topics of Study

- What is Health?
- Development across the lifespan
- Health of population groups
- Drugs and alcohol
- Examining risk and minimising harm
- Infectious and non-infectious diseases

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Topic tests
- Project
- Written reports
- Oral presentations
- End-of-semester examination

Italian

Overview

In Year 9, students continue to build on their prior knowledge and experiences of learning Italian while applying their skills to increasingly complex language and cultural concepts. Students engage in speaking, listening, reading, writing and viewing activities through a range of engaging and relevant text types connected to their lives, interests and experiences. Topics studied throughout the year include where Italians live, Italian family life, a typical day in the life of an Italian, and friends and free time. These topics allow students to explore contemporary Italian culture while making meaningful connections to their own experiences and perspectives. Learning experiences encourage students to communicate creatively, exchange information, interpret texts and respond thoughtfully to different situations and audiences in Italian.

Duration

This subject runs for TWO semesters and will therefore account for two elective choices.

Educational Objectives

- Exchange and compare ideas, experiences, opinions and feelings through spoken and written transactions
- Convey and organise information and compare diverse perspectives from multiple sources in Italian
- Create and respond to imaginative texts about themes, events and values
- Translate texts for Italian to English and vice versa
- Understand and extend knowledge of more complex features and patterns of Italian grammatical systems
- Analyse the features of a range of spoken, written and multimodal texts
- Reflect on intercultural exchanges and the ways in which language is used to establish relationships, indicate social values and enhance reciprocity

Topics of Study

- Where do Italians live?
- Italian family life
- Typical day in the life of an Italian
- Friends and free time

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Written assessments
- Reading assessments
- Listening assessments
- Speaking assessments
- End-of-semester examinations

Visual Arts: Making and Exhibiting

Overview

Visual Arts: Make and Exhibit enables students to develop their skills and confidence in a range of art forms. In this semester-based unit, students choose from one of three art form streams. Students have access to a range of traditional art resources as well as the latest technologies including Creative Cloud software. They learn about the role of the artist, craftsperson and designer and their contribution to society, and the significance of the creative industries. Students plan and apply the studio process to make and exhibit artworks. They examine how Australian artists develop their practice and have used materials, techniques and processes to create aesthetic qualities in artworks. Their research focuses on critical, reflective and creative thinking. This subject provides a VCE pathway to Visual Arts subject Art: Making and Exhibiting.

Duration

This subject runs for ONE semester.

Educational Objectives

- Understanding and application of a range of art forms.
- Understanding and application of the studio process to successfully communicate, challenge and express their own ideas
- Understanding and application of critical, reflective and creative thinking strategies
- Ability to analyse artworks
- Ability to effectively apply OH&S knowledge in the Art Studio.

Topics of Study

- Making: Studio Practice and Exhibition
- Responding: Australian Artists
- Choose stream:
  - Photography and Digital Art
  - Drawing and Painting (Skateboard)

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Visual Arts journal and artworks
- Exhibition
- End-of-semester examination

Visual Communication Design and Media: Content Creator

Overview

This course introduces students to the role of a designer and content creator. They are exposed to two Visual Arts subjects, in a combined course, that offer future VCE pathways in both Visual Communication Design and Media. The Media unit is designed to give students an overview of the relationship between media and its audience. This is done through the exploration of the tools used by media producers to communicate stories and narratives. Students will consider how narratives are framed and manipulated by those who create them. Film and photography are a key focus in this course. The Visual Communication Design unit will examine the way visual language can be used to convey ideas, information and messages in the fields of communication, environmental and industrial design. Students will employ a design process to generate and develop visual communications. Students will also explore a range of manual and digital methods to develop and refine presentations. They will also identify and evaluate the effectiveness of strategies used by designers to appeal clearly to a specific target audience.

Duration

This subject runs for ONE semester.

Educational Objectives

Media Unit:

- Creative problem solving
- Technological skill in media equipment and ICT
- Software knowledge in Adobe Creative Suite software
- Teamwork
- Personal discipline through individually managed projects

Visual Communication Unit:

- Develop a range of skills in selecting and applying media, materials, and manual and digital methods to suit design purposes
- Apply a design process to create visual communications
- Understand how historical, social, cultural, environmental and contemporary factors influence visual communications

Topics of Study

Media Unit:

- Film and Photography
- Framing and composition
- Narrative and genre

Visual Communication Design Unit:

- Design elements and principles – applying techniques to generate alternative design options
- Respond and Interpret – the analysis and evaluation of visual communication designs for different audiences and purposes in different contexts
- Exploration of various methods and media including 3D printing

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Folio including completed Media product, Visual Communications (including 3D prototype) and Visual Diary documenting the design and production process
- Responding Tasks
- End-of-semester examination

Young Engineers

Overview

This elective will give students the opportunity to practice critical thinking, problem-solving, creative and collaborative skills through project-based investigations. The course is intended to make connections between STEM learning areas (Science, Technology, Engineering and Mathematics) and real-life global applications, going beyond the simple transfer of knowledge. This project-based learning will be delivered through an Aeronautics and civil unit that involves design, manufacture and testing of flight-capable machines, including the science and technology of operating aircraft and rockets within the atmosphere.

Duration

This subject runs for ONE semester.

Educational Objectives

- Analytical skills to research a topic, develop a project plan and timeline, and draw conclusions from research results
- Science skills to break down a complex scientific system into smaller parts, recognize cause and effect relationships, and defend opinions using facts
- Mathematic skills for calculations and measurements
- The requirement of paying attention to detail in following a standard blueprint, recording data accurately, or writing instructions
- Technical skills to troubleshoot the source of a problem, repair a machine or modify a model, and computer capabilities to stay current on appropriate software and equipment

Topics of Study

- Fundamental flight forces
- Moving through fluids
- Controlling flight
- Rockets
- Flight investigations: aircraft design and aerofoils
- Forces acting on bridges
- Strength and Stiffness
- Force-deflection graphs

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Research projects
- Problem-solving exercises
- Extended practical investigations
- Design and construction activities
- Tests and Data Analysis
- End of Semester examination

Young Entrepreneurs

Overview

This course specifically caters for those students who have a passion for problem-solving and are skilled critical thinkers. Students learn the basics of planning and launching their own successful business. They learn how to come up with new business ideas, attract investors to market their business and manage expenses. The course will be driven by project work, working in groups to establish a successful business or product. This course will challenge students to develop the core skills they need to be successful; leadership, communication, decision making, self-management and responsibility. Students will work on one project per term. The first will be presented to Hume Anglican Grammar's very own 'Sharks' – Mr Sweeney and his Senior Leadership Team. The other will be presented to local community members and parents.

Duration

This subject runs for ONE semester.

Educational Objectives

- Understanding the role of the entrepreneur
- Understanding economic principles
- Exploring major fields of business activities: production and delivery
- Defining a business and organisation
- Ability to market and promote a business or product
- Promotion of core competencies required to be a successful entrepreneur

Topics of Study

- Entrepreneurship Basics
- Small business basics
- Business ideas and opportunities
- Defining a business
- Marketing basics and promotion

Methods of Assessment

Students will complete several assessment tasks over the semester. These will include:

- Oral presentations
- Short investigative projects
- Annotated visual displays
- Research reports
- Multimedia presentations and posters
- End-of-semester examination

Contacts

Before making decisions about course composition and balance, students and parents may wish to seek advice from relevant staff. Class size limits apply and students submitting selections late or not showing appropriate commitment to their subjects may be precluded from certain subjects.

Please contact the following staff should you have any queries.

For All Enquiries		
Head of Teaching and Learning – Secondary	Ms Kaye Elvin	Elvink@humegrammar.vic.edu.au
For Career and Post-Schooling Pathways Advice		
Careers Counsellor	Mrs Emily Parry	Parrye@humegrammar.vic.edu.au
For Subject Specific Information		
Subject Coordinator – Visual Arts	Ms Navpreet Batth	Batthn@humegrammar.vic.edu.au
Subject Coordinator – Performing Arts	Ms Amy Besic	Besica@humegrammar.vic.edu.au
Subject Coordinator – English	Ky Hinselwood	Hinselwoodk@humegrammar.vic.edu.au
Subject Coordinator – Health and Physical Education	Ms Katherine Briggs	Briggsk@humegrammar.vic.edu.au
Subject Coordinator – Humanities and RAVE	Miss Zoe Scott	Scottz@humegrammar.vic.edu.au
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