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<table>
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<tr>
<th>Principal</th>
<th>Email Address</th>
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<tbody>
<tr>
<td>Ted Kosicki</td>
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<tr>
<th>Deputy Principal</th>
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<tr>
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<tr>
<th>Head Of Senior School</th>
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<tr>
<th>School Chaplain</th>
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<tr>
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<tr>
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<tr>
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INTRODUCTION

The Western Australian Parliament passed legislation in 2005 to raise the school leaving age to 17. A student therefore has the following options:

1. Continue with Secondary education by enrolling in Senior School courses.
2. Find an appropriate apprenticeship or traineeship
3. Pursue training at another educational institution for example; a Business or Hospitality College.
4. A combination program involving part-time school/training and part-time work.

The Changing World of Work

The term ‘career’ was traditionally associated with paid employment and referred to a single occupation. In the current world of work the term ‘career’ is seen as a continuous process of learning and development. GMAS students will need to develop the knowledge and skills which will allow them to adapt to the rapid changes which are taking place in the world of work. Their careers in the future are likely to involve:

- a range of different known and unknown careers or jobs.
- employment in a number of organisations.
- experience in more than one industry field.
- the opportunity to develop more than one interest or talent.
- varying work arrangements (e.g. full-time, temporary, contract, self-employment).
- lifelong learning.
- periods ‘out of work’.

Our GMAS students will need to:

- become proactive and take responsibility for their direction and growth.
- be flexible and acquire mastery of new skills constantly to become self-determining in a climate of rapid change.

The transition from early adolescent to late adolescent heralds the beginning of the career development process. Deciding on a career path is, for most students, a difficult task.

To make informed decisions students will have to:

- improve their self-knowledge by exploring their personal attributes, skills, talents and interests to understand their own personal strengths and weaknesses.
- research information about careers and training requirements.
- develop career pathways and goals.

Some of the questions students need to consider include:

- What are my immediate and future goals?
- What occupations am I considering?
- Do I want to continue further study?
- Have I discussed my career options with my parents/guardians/friends and/or others with experience?
- Where do I have to study/travel to before I reach my career aspirations?
- Am I aware of the requirements for entry into these career choices?
- Have I considered how many major factors may influence my career decisions?
- Have I considered the education standards required for particular career pathways?
Students, whether planning to seek employment after gaining WACE Graduation or to continue with further studies (TAFE, tertiary or other) should choose Courses which will maximise their options for the future. As students mature and learn more about their career options their chosen career path may well change. Their Course choices should be broad enough to allow for flexibility for their future education and training.

It is important that students choose Courses that:
• are in keeping with their academic ability
• enable them to work from their strengths
• challenge them to make the most of their capabilities
• provide them with the qualification needed to pursue their career and ambitions after they leave school
• they enjoy studying
• result in a workload that is manageable

To make informed decisions students need to research widely. It is important that they find out as much as they can about the careers they are interested in to help them make decisions about the Courses to study in Years 11 and 12.

The following are resources for students to access:-

**Library – Careers office**
The following resources are available in the Library:
• University handbooks and faculty guides
• Career books
• A range of resources on seeking employment
• Job guides
• “Smart Start” guides

**Internet**
A very useful source of information to supplement student’s knowledge about occupations they may have an interest in. All educational institutions have websites with course information. In addition there may be specific websites with information on careers in a particular area eg. Ace Day Jobs (Science) - [www.abc.net.au/acedayjobs](http://www.abc.net.au/acedayjobs). More sites are listed on Page 5 and 6 under Careers Services.

**Family and Friends**
Students are encouraged to speak with someone who is currently employed in the type of work that they are interested in. These people are in the best position to provide detailed information about the specific career.

**Career Development Information Centre 9421 1344**
2nd Floor, City Central Building, 166 Murray Street Mall, Perth.
The centre provides detailed information about careers and further study options.

**Career Choice Programme (Jig cal)**
In Year 10, students have already completed a Career Choice program at school called “Career Voyage”.

**Prospective Student Advice Services**
Prospective Student Advisors are invaluable sources of information about Courses on offer at University and TAFEWA.
Students and their parents are encouraged to contact the institutions listed below for detailed information. An interview with a student advisor can result in a much better understanding of both the institution and the Course options.
**Tertiary Institutions**

**Curtin University**  
9266 2626  
www.curtin.edu.au  

**Edith Cowan University**  
6304 2689  
www.ecu.edu.au  

**Murdoch University**  
9360 2726  
www.murdoch.edu.au  

**University of WA**  
6488 2477  
www.uwa.edu.au  

**University of Notre Dame**  
9433 0533  
www.nd.edu.au  

**Department of Training and Workforce Development**  

**South West Institute of Technology (SWIT)**  
www.swit.wa.edu.au  

**Bunbury Regional Trade Training Centre**  
Contact Donna Wroth on 9721 8881  

**Information Centres**

**School Curriculum and Standards Authority (SCSA)**  
http://www.scsa.wa.edu.au/  

**TISC Tertiary Institutions Service Centre**  
www.tisc.edu.au  

**UMAT (Undergraduate Medicine and Health Sciences Admission Test)**  
http://umat.acer.edu.au  

**UMAT Preparation**  
www.MedEntry.edu.au  

**My University**  
myuniversity.gov.au  

**Career Services**

Beginning or changing your career can be both an exciting and daunting time at any point in your life. The Department of Training and Workforce Development offers a variety of career services around the State to help you with your career planning, assessing your training options and your job search skills.

**Apprenticeship/Traineeship Information 131 954**  

**Defence Force Careers Reference Centre 131 901**  
www.defencejobs.gov.au  
This centre provides information on the careers available in the Air force, Army and Navy.
Centrelink
http://www.centrelink.gov.au

Jobjuice
www.jobjuice.com

The Source
www.thesource.gov.au

Future Finder
www.myfuture.com

The Job Guide online
www.jobguide.deewr.gov.au

Career Centre
www.careercentre.dtwd.wa.gov.au

Job Search
www.jobsearch.gov.au
WACE REQUIREMENTS FOR 2017 GRADUATES

To qualify for a Western Australian Certificate of Education (WACE), a student must complete the following:

General Requirements:
- Demonstrate a minimum standard of literacy and numeracy either by achieving a Level 8 or higher in NAPLAN reading, writing and Numeracy or by passing the Online Literacy and Numeracy Assessments.
- Complete a minimum of 20 units or equivalents
- Complete either 4 or more Year 12 ATAR Courses or complete a Certificate 2 or higher

Breadth and Depth
- Students are to complete 20 Course units or equivalents. This requirement must include at least:
  - 10 Course units from year 12
  - Two Year 11 units from an English Course and one pair of Year 12 units from an English Course.
  - One pair of Course units completed in Year 12 from each of List A Courses and list B Courses

Achievement Standard
- Achieve at least 14 “C” grades or higher (or equivalent) in Year 11 and 12 units with a minimum of 6 C grades or equivalent in Year 12.
- Complete 4 or more Year 12 ATAR Courses or complete an AQF VET Certificate 2 or higher.

Literacy and Numeracy Requirement.
- Complete at least four units of an English Course post Year 10 and studied over at least two years.
- Demonstrate a minimum standard of literacy and numeracy either by achieving a Level 8 or higher in NAPLAN reading, writing and Numeracy or by passing the Online Literacy and Numeracy Assessments.

Full details are available on the School Curriculum and Standards Authority (formerly Curriculum Council) website at:-

http://www.scsa.wa.edu.au/
The School Curriculum and Standards Authority will issue to all students who achieve Secondary Graduation the:-

**WESTERN AUSTRALIAN CERTIFICATE OF EDUCATION (WACE).**

Achievement in Courses may be accumulated towards the WACE throughout a person’s lifetime.

What will the student receive?

At the end of their Senior Secondary Studies all students enrolled will receive a Folio of Achievement containing:

- Western Australian Certificate of Education (if attained)
- Record of Achievement
- Acknowledgement of English Language Competency
- Course report for each Course studied, and/or, VET Units of Competency and/or VET qualifications (if attained)

See next page for sample WACE Certificates.
UNIVERSITY ADMISSION REQUIREMENTS FOR SCHOOL LEAVERS

Introduction
Students intending to study at any of the four public universities in Western Australia are required to apply through the Tertiary Institutions Service Centre (TISC). Students have to apply directly to the University of Notre Dame Australia, a private university, for admission. This information has been produced to inform teachers, students and parents of decisions made to date by the four Western Australian public universities concerning 2017 University Admission Requirements using the School Curriculum and Standards Authority Courses. TISC publishes the annual Admission Requirements for School Leavers brochure on its website. Students at GMAS will be issued with this information, or it can be accessed via the website: www.tisc.edu.au.

Summary of Requirements for University Admission to Curtin University of Technology, Edith Cowan University, Murdoch University and The University of Western Australia.

To be considered for university admission as a school leaver an applicant normally must:
1. Achieve the Western Australian Certificate of Education (WACE) and
2. Achieve competence in English as prescribed by the individual universities, and
3. Obtain a sufficiently high ATAR (Australian Tertiary Admission Rank) for entry to a particular university and/or course, and
4. Satisfy any prerequisites or special requirements for entry to particular Courses.

1. Western Australian Certificate of Education (WACE)
The universities require students to demonstrate breadth of study. All universities require students to achieve this via achieving the WACE.
The requirements for achieving the WACE are determined by the School Curriculum and Standards Authority.

2. Competence in English
Competence in English for the purpose of university admission will normally be a specified Level of Achievement in an English Course (generally a C level/50% pass in Year 12 English/English Literature). The final Level of Achievement is to include the external assessment component for the English Course. STAT and IELTS could be considered if a student fails to achieve the required English Course Level of Achievement

3. Conditions for the Determination of an Australian Tertiary Admission Rank
The ATAR is derived from the Tertiary Entrance Aggregate (TEA). The TEA will be calculated by adding a student’s best four scaled scores plus 10% of that student’s best LOTE (eg. Italian ATAR) scaled score, based on the following rules:
• Only ATAR Courses can be used in the ATAR after sitting the external examination for those subjects.
• For all universities you may accumulate scaled scores which contribute to your ATAR over a maximum of five consecutive years, with no subject or Course counting more than once.
• No more than two mathematics scaled scores can be used in the calculation of an ATAR.
• There are unacceptable course combinations whereby scores in both Courses cannot both be used (GMAS does not currently offer unacceptable combinations of subjects – refer to the TISC website for listings).
• A LOTE bonus of 10% of a LOTE scaled score is added to the aggregate of the best four scaled scores. If more than one LOTE has been sat, only one (the best) LOTE scaled score can be used as the LOTE bonus. You receive the LOTE bonus irrespective of whether your LOTE Course scaled score was counted as one of the best four.
• In calculating the scaled score, equal weight is given to the final school mark and the final examination mark.
• The maximum TEA is 410. This score is then used to create the ATAR (ranking) score.
UNIVERSITY ENTRANCE

Prerequisites
Some university courses will require prerequisite Courses. For prerequisite purposes, results will be valid for five years. Refer to the TISC document: “Admission Requirements for School Leavers” (www.tisc.edu.au) to see listings of pre-requisites for courses at the various Universities.

Make sure that you satisfy the prerequisites for admission to the university course of your choice.

Prerequisites are Courses or special requirements that must be successfully completed for entry to particular university courses. Generally a scaled score of 50 or more in an ATAR course is required for prerequisites purposes.

Murdoch University does not require applicants to have undertaken specific prerequisite Courses and instead provides introductory units to enable its students to become skilled in specific areas in which they may be lacking.

For some university courses the special requirements may include bridging/special Course units, interviews, auditions, folio presentations, manual dexterity tests, aptitude tests, fitness requirements, etc. Detailed information is available from the individual universities.

Comparability of Achievements in Courses
Admission into university is competitive, with most courses having more applicants than places. To process applicants fairly they will be ranked using the ATAR based on their Course achievements.

TISC on behalf of the universities reserves the right to carry out appropriate statistical adjustments to ensure fairness to all students regardless of the school attended and Course undertaken.

NOTRE DAME UNIVERSITY - Admission
Notre Dame has chosen not to use the combined central admissions processing agency (TISC) of the public universities in Western Australia.

Prospective students apply directly to the University for admission. The selection system for Notre Dame is multifaceted. Notre Dame does not rely simply upon a numerical ATAR for University entry. Instead, it bases entry upon a range of different factors such as: academic records over Years 11 and 12, a student interview, contribution to school and community life, individual motivation, and recommendations by schools and employers.

Minimum Entry Requirements
1. Secondary Graduation. Applicants should have fulfilled the School Curriculum and Standards Authority’s Secondary Graduation requirements.
2. English Language Competency. Applicants should have demonstrated achievement in an English Course to gain admission.
3. Students should have achieved an ATAR of 70.00 or higher. In addition to meeting academic minimum entry requirements applicants will need to demonstrate their ability to succeed in the chosen course and career by fulfilling Notre Dame’s other (non-academic) entry requirements. This may be demonstrated through:
   • Interview
   • Personal statement
   • References and/or referee statements
   • Other relevant information
TECHNICAL AND FURTHER EDUCATION (TAFE) AND PRIVATE TRAINING PROVIDERS

PROPOSED MINIMUM ENTRANCE REQUIREMENT (MER)
Minimum Entrance Requirements determine an applicant’s eligibility for a Course. Minimum Entrance Requirements (entrance requirements or prerequisites) are the academic qualifications (or background) needed before applying for entry to a full-time TAFEWA Course. Based on current information entry requirements will be expressed as competencies. These will include Literacy and Numeracy competencies as well as technical or competency based qualifications.

TAFEWA is made up of 10 colleges with over 50 campuses across Western Australia and is the largest provider of vocational education and training in the State. TAFE Courses emphasise practical and professional vocational learning.

Courses are designed with industry participation so that training is industry relevant and students learn the latest work practices. TAFE also delivers bridging/entry Courses that offer accessible pathways into study and assists in the provision of apprenticeships and traineeships that enable people to undertake training within employment.

TAFEWA qualifications are combinations of skills or competencies that are formally certified and nationally recognised as delivering assurance that the individual with the qualification can perform various job-related tasks at a certain standard. TAFE colleges offer Courses at Certificate, Diploma and Advanced Diploma levels. Qualifications are recognised worldwide and can also be used to articulate into university degree Courses across Australia.

PROPOSED NEW ENTRY ARRANGEMENTS FOR FULL TIME PLACES IN TAFEWA QUALIFICATIONS
The Department of Education and Training is examining the introduction of new admission arrangements for full time places in TAFEWA qualifications (Courses). The new system underwent changes in 2009. The detail contained in relation to this may be subject to review.

COMPETITIVE AND NON-COMPETITIVE TAFEWA COURSES
The Courses offered by TAFEWA will be divided into two groups. Those that are ‘competitive entry’ and those that are ‘non-competitive entry’. The TAFE Admissions Centre will publish an annual list of competitive and non-competitive Courses.

Non-competitive Courses are those where there are more places than applicants. Currently approximately 70% of applications processed by the TAFE Admissions Centre are for non competitive Courses. Applicants who meet TAFEWA’s minimum entry requirements for non-competitive Courses will automatically be offered a placement.

Competitive Courses are those where there are more applicants than places available. Students seeking places in competitive Courses will have to meet the MER plus address a set of selection criteria. The selection criteria require the applicant to show evidence of:
- having established an education and training pathway
- Work experience, including paid employment, voluntary work and community involvement
- Academic and/or skill development achievement

* Students that have completed a VET qualification at school will be given preference over ATAR students in competitive entry courses as TAFE entry for these Courses are by a points system.
PROPOSED QUALIFICATION PATHWAYS
Qualification pathways refer to completed Australian Qualifications Framework (AQF) qualifications in the same or related fields of study e.g. Certificate I, II or III. Applicants are awarded points if they have completed or gained credit towards an AQF qualification that is in the same or a related field of study to the qualification which the applicant is seeking entry. A student, who has, for example completed a Certificate II in Hospitality at school, will be awarded a number of points if he/she is applying for placement in a hospitality course at TAFEWA. If the same student applied for entrance to a Course other than hospitality then he/she would be awarded fewer points as the Certificate is not in a related field.

PROPOSED WORK EXPERIENCE AND EMPLOYMENT
There are two broad categories of workplace experience and employment. These are:
• School work experience and VET Course based work experience
• General workplace experience
The first category would normally apply to school applicants and the second category would normally apply to non school leaver applicants. However some school leavers may also be able to attract points for part time work undertaken outside of school under the General Workplace Experience category.

PROPOSED SECONDARY EDUCATION
Secondary Education refers to general education achievement – this is academic achievement in school studies or equivalent. Applicants are allocated up to a maximum of twenty points based on their academic achievement in secondary school studies or their equivalent. Points would be allocated on the basis of the results for the applicant’s best four Courses in a specified year level. TAFEWA is currently developing a strategy to assign points to each of the Course grades. In the past for example an A grade attracted 5 points, a B grade 4 points and a C Grade 3 points. It is important to note that students who only select academic Courses may not be as competitive as those students who select a combination of academic Courses and vocational Courses such as Workplace Learning.

ALTERNATIVE PATHWAYS FOR UNIVERSITY ENTRY REQUIREMENTS
**Curtin University**
Curtin University will expect school leaver age applicants who seek entry via this pathway to have, as a minimum:
• Successfully completed an AQF/TAFE Certificate IV; and
• Achieved WACE; and
• Met Curtin University’s competence in English requirement; and
• Met course prerequisite requirements.

**Edith Cowan University**
ECU will expect school leaver age applicants who seek entry via this pathway to have, as a minimum:
• Successfully completed an ECU approved AQF/RTO Certificate IV as part of their Year 12 studies; and
• Achieved WACE; and
• Met Edith Cowan University’s competence in English requirement; and
• Met course prerequisite requirements.
Students may apply direct to ECU using the Portfolio Entry Pathway.

**The University of Western Australia**
The University of Western Australia will accept an AQF/TAFE qualification at Diploma level as a basis of admission for a limited number of courses; however, school leavers using a diploma achieved during their Years 11 and 12 must also have:
Achieved WACE; and
Met UWA’s competence in English requirement; and
Met course prerequisite requirements. Selection is based on academic merit and entry via this route is very competitive.

Murdoch University
Have you considered completing a TAFE/Private RTO qualification as a pathway to university?

- Certificate IV – Will make you eligible for admission into most Murdoch courses.
- TAFE Diploma or Advanced Diploma – May make you eligible for admission with up to one year’s Advanced Standing.
- Life experience is taken into consideration at Murdoch, so you could also be considered for admission if you have a Trade Certificate and have worked in this trade.

Chiropractic, Law or Veterinary Science are not included as these courses have different entry requirements.

If you are a school leaver who completed a Certificate IV or higher during high school you will also need to meet English Competency and WACE requirements.

Media and Creative Portfolio Entry: In addition to the requirements outlined above, Murdoch University offers a portfolio pathway for admission to the Bachelor of Arts degrees in Communication and Media Studies, English and Creative Writing, Games Art and Design, Graphic Design, Journalism, Photography, Public Relations, Radio, Screen Production, Sound, Theatre and Drama, and Web Communication. Students must satisfy Murdoch’s English requirement, and should apply through TISC but submit their portfolios directly to the Student Centre at Murdoch University. Portfolios will be assessed by academic staff in the relevant discipline. For more information see www.murdoch.edu.au.

Information contained in this publication may have been updated as University entrance information is subject to change and it is recommended students consult individual universities to ascertain entry requirements.

TAFE QUALIFICATIONS
In most courses, qualifications are at different levels, each involving an increasing degree of skills. There are pathways and links between the courses to increase opportunities for further education and training. The qualifications are:

**Certificate I**
This first level of qualification covers training in some essential skills and routine tasks.

**Certificate II**
Students acquire operational knowledge in skill areas where they can apply solutions to predictable problems.

**Certificate III**
Students learn additional theoretical knowledge and develop higher skills for solving a variety of problems. Certificate III is usually required for recognition as a tradesperson.

**Certificate IV**
At this level students are developing a broad knowledge base. They learn to analyse and evaluate information and to apply the knowledge and skills to a wide variety of contexts. The duration of the Certificate IV is usually one year full-time or equivalent part-time.

**Diploma**
Diploma Courses involve up to two years full-time study or equivalent part-time study. At this level theoretical knowledge and/or technical and creative skills is developed at substantial depth. Analysis, judgement and planning are involved across a broad range of technical and/or management situations.
Advanced Diploma
The Advanced Diploma is the highest TAFE qualification. It involves two to three years full-time or equivalent part-time study. Significant judgement in planning, technical or leadership functions is developed with highly specialised technical, creative or conceptual skills.

SCHOOL CURRICULUM AND STANDARDS AUTHORITY (SCSA) COURSES

Courses and programs that contribute to the WACE
To meet the diverse range of students’ needs and to ensure that students meet appropriate standards of achievement on the completion of their schooling, five types of courses/programs are available.

ATAR and General Courses comprise four units:
Two Year 11 units (which may be studied and reported to the Authority separately or as a pair), and a pair of Year 12 units (which must be studied and reported to the Authority as a pair).

ATAR Courses
ATAR courses are designed and examined by the Authority. Student results in ATAR courses are used by the Tertiary Institutions Service Centre (TISC) to calculate a student’s Australian Tertiary Admissions Ranking (ATAR). The ATAR is used to determine eligibility for university entrance. Students seeking to achieve an ATAR will need to complete a minimum of four Year 12 ATAR Courses.

General Courses
There are four categories of General Courses. All these courses are developed by the Authority. General Courses are not examined by the Authority.

Standard General Courses
These are designed for students who are typically aiming to enter further training or the workforce directly from school.

Vocational Education and Training industry specific (VETIS) courses
The VETIS Courses have been developed in close consultation with WA Industry Training Councils. These VETIS courses are General Courses that include a full, nationally recognised AQF qualification and mandatory industry-related workplace learning.

Foundation Courses
The Foundation Courses have been developed for students who have not been able to demonstrate the minimum standard for literacy and/or numeracy before Year 11 and are unlikely to do so before Year 12 without significant levels of student support.

Preliminary courses
The Preliminary Courses have been developed for students who have been identified as having a learning difficulty and/or an intellectual disability. They provide a relevant option for students who:
- Cannot access the ATAR or General Course content with adjustment and/or disability provisions
- Require modified and/or independent education plans.

Preliminary Courses do not contribute to achievement of the WACE.
COURSE LISTING

Students must complete, in their final WACE year (Year 12), at least one Course from List A (arts / languages / social science) and List B (mathematics / science / technology).

Students therefore will be required to undertake at least one Course from List A and one Course from List B in their selections. For ATAR studies, a total of 6 Courses need to be undertaken.

Course and Unit Selections

As always, Course and unit offerings will initially be determined by what the school can offer, taking into account the number of students in Year 11 and Year 12, the school community and available resources. Once this is determined, students’ Course and unit selections should provide academic challenge and be based on students’ interests, educational background, prior achievement and post-school aspirations.

The following table lists Courses being offered as choices to students for 2016. Descriptors of Courses that follow, do not fully cover all aspects of the Courses or all of the Course units available from the School Curriculum and Standards Authority – only those that will be initially on offer at GMAS for 2016. Some subjects listed may not run in 2016 if student selection numbers are insufficient or they cannot be staffed.
BREADTH OF STUDY REQUIREMENT
(At least 1 subject must be selected from each list – total of 6 including English)

**LIST A**  
(Arts / Languages / Social Sciences)

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Drama DRA</td>
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<tr>
<td>Economics ECO</td>
</tr>
<tr>
<td>English ENG</td>
</tr>
<tr>
<td>Geography GEO</td>
</tr>
<tr>
<td>Modern History HIM</td>
</tr>
<tr>
<td>Japanese Second Language JSL</td>
</tr>
<tr>
<td>Literature LIT</td>
</tr>
<tr>
<td>Media Production and Analysis MPA</td>
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<tr>
<td>Music/Music General MUS/MUSG</td>
</tr>
<tr>
<td>Politics and Law PAL</td>
</tr>
<tr>
<td>Religion and Life REL</td>
</tr>
<tr>
<td>Visual Arts VAR</td>
</tr>
</tbody>
</table>

**LIST B**  
(Mathematics / Science / Technology)

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Accounting and Finance ACF</td>
</tr>
<tr>
<td>Applied Information Technology AIT</td>
</tr>
<tr>
<td>Aviation AVN</td>
</tr>
<tr>
<td>Biological Sciences BIO</td>
</tr>
<tr>
<td>Chemistry CHE</td>
</tr>
<tr>
<td>Food Science and Technology FST</td>
</tr>
<tr>
<td>Human Biological Science HBY</td>
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<tr>
<td>Mathematics Applications MAA</td>
</tr>
<tr>
<td>Mathematics Methods MAM</td>
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<tr>
<td>Mathematics Specialist MAS</td>
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<tr>
<td>Outdoor Education OED</td>
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<tr>
<td>Physical Education Studies PES</td>
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<tr>
<td>Physics PHY</td>
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<tr>
<td>Psychology PSY</td>
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</tbody>
</table>

NOTE: All subjects are at ATAR level (for ATAR calculation and University Entry. Units 1/2 Year 11 leading to Units 3/4 in Year 12) unless otherwise specified.
Special Provisions for WACE Candidates

Students who have a learning difficulty, disability or medical condition may be eligible for Special Provisions (applied for through the school). The School Curriculum and Standards Authority (SCSA) have developed a special provisions policy to assist identified candidates in completing the WACE examinations. The SCSA recognises that individual students, under circumstances outlined in the special provisions policy, may need special external assessment arrangements to allow them to demonstrate their knowledge, skills and understandings within certain courses. The underlying principle of special provisions is to ensure that the most appropriate, fair and reasonable arrangements and options are available for students to demonstrate their capabilities where their external assessment is affected by illness, impairment or personal circumstances. Special provisions are available for practical and written examinations.

Students who are eligible for special provisions are not exempt from meeting the requirements for a Western Australian Certificate of Education (WACE), or from being assessed in a Course. There are two types of special provisions for the WACE examinations:

**Special examination arrangements** – Candidates who have a temporary or permanent disability, illness and/or specific learning disability that could disadvantage them in timed assessments may apply to sit an examination under special conditions. Application is made prior to the examinations. Examples of disabilities/learning difficulties considered include: physical disability e.g. multiple sclerosis, illness e.g. diabetes, chronic fatigue syndrome, vision impairment, hearing impairment, fine motor disability, specific learning disability, psychological/neurological disability, dyspraxia and ADD/ADHD.

**Sickness/misadventure provisions** – Candidates who suffer from a temporary sickness, non-permanent disability or an unforeseen event close to or during the examinations, which they believe may have resulted in performance below expectations or non-attendance in particular examinations, are given the opportunity to apply for assessment consideration. Application is made immediately after the examinations.

Arrangements that may be granted include: extra reading time, extra working time, non-working (rest) time, specialised equipment e.g. desks, chairs, food and extra drink, use of a scribe, use of a computer, paper modification e.g. coloured paper, brailed, enlarged, alternative format practical exam.

Applications for Special Provisions are made in Year 12 through the Enrichment Department. In order to qualify for Special Provision, copies of specialist reports that outline a formal diagnosis and meet WACE criteria are required. In addition the school needs to; demonstrate that a range of support and special arrangements have been in place to assist students, during Year 11 and 12 or as soon as a diagnosis is made, outline the success of these strategies and whether those students have availed themselves to the support offered. If you are unsure of whether your child may qualify for Special Provision please contact the Acting Head of Enrichment, Jacinta Busher (jbr@gmas.wa.edu.au). More information about WACE Special Provision can be found on the School Curriculum and Standards Authority Website (http://www.scsa.ws.edu.au).
COURSE UNIT DESCRIPTORS

General Courses:
These are designed for students who are typically aiming to enter further training or the workforce directly from school. These do not have external examinations and cannot be used in Year 12 for calculating an ATAR score for University entrance. For General Course descriptions refer to the separate VET Courses Handbook.

ATAR Courses (Units 1 and 2 : Year 11 and 3 and 4 : Year 12)
These Courses have external examinations and are used in Year 12 for calculating an ATAR score for University entrance.

List A Courses

**DRAMA ATAR  DRA**

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

The Drama Course is designed to facilitate the achievement of four outcomes. These outcomes are based on the Arts learning area outcomes in the Curriculum Framework.

Outcome 1: Drama ideas
Outcome 2: Drama skills and processes
Outcome 3: Drama responses
Outcome 4: Drama in society

Unit 1
The focus for this unit is **representational, realist drama**. Students explore techniques of characterisation through different approaches to group based text interpretation, particularly those based on the work of Stanislavski and others. In this unit, students have the opportunity to research and collaboratively workshop, interpret, perform and produce texts in forms and styles related to **representational, realistic drama** that educate and present perspectives.

Unit 2
The focus of this unit is **presentational, non-realist drama**. Students explore techniques of role and/or character through different approaches to group based text interpretation, particularly those based on the work of Brecht and others. In this unit, students have the opportunity to research and collaboratively workshop, interpret, perform and produce drama texts related to **presentational, non-realistic drama** that challenge and question perspectives.

Leading to Units 3 and 4 in Year 12
Prerequisite minimum Year 10 achievement level - Mainstream English C
Prerequisite minimum Year 11 achievement level (for year 12 studies) – 55 % C
ECONOMICS ATAR ECO

Economics investigates the choices which all people, groups and societies face as they confront the ongoing problem of satisfying their unlimited wants with limited resources. Economics aims to understand and analyse the allocation, utilisation and distribution of scarce resources that determine our wealth and wellbeing. Economics develops the knowledge, reasoning and interpretation skills that form an important component of understanding individual, business and government behaviour at the local, national and global levels.

The Economics ATAR Course encompasses the key features which characterise an economist’s approach to a contemporary economic event or issue: the ability to simplify the essence of a problem; to collect economic information and data to assist analysis and reasoning; to think critically about the limits of analysis in a social context; and to draw inferences which assist decision-making, the development of public policy and improvement in economic wellbeing.

The Economics ATAR Course develops reasoning, logical thinking and interpretation skills demanded by the world of work, business and government. These skills relate to a variety of qualifications in vocational, technical and university education contexts. The learning experiences available through studying this course explore the knowledge, values and opinions which surround the complex range of economic events and issues facing our community, such as unemployment, income distribution, business strategy and international relations.

Economic literacy developed through this Course enables students to actively participate in economic and financial decision-making, which promotes individual and societal wealth and wellbeing.

Unit 1 – Microeconomics

This unit explores the theory that markets are an efficient way to allocate scarce resources, using real world markets with an emphasis on the Australian economy. When the forces of demand and supply do not allocate and price resources in a way that society would regard as efficient, equitable or sustainable, market failure can occur. Students examine examples of market failure along with a range of government policy options that can be applied to achieve more desirable outcomes. Students are also introduced to the language of economics and the use of theories and models to explain and interpret economic events and issues.

Unit 2 – Macroeconomics

This unit explores the government’s role in a modified market economy and Australia’s recent (the last ten years) and contemporary (the last three years) macroeconomic performance. The cyclical fluctuations in the level of economic activity result in changes in the levels of output, income, spending and employment in the economy which, in turn, have implications for economic growth, inflation and unemployment. Students examine the role of government, through its spending and taxing powers, which can affect the allocation and price of resources, and the level of economic activity by targeting economic objectives.

Leading to Units 3 and 4 in Year 12

Prerequisite minimum Year 10 achievement level - Mainstream HASS B, Mainstream English B
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C
ENGLISH ATAR  ENG

In this Course students study language through the use of written, visual and oral communication texts. Through the study of these texts, students learn about the English language, how it works and how to use it effectively. Students learn the conventions of English language to communicate ideas, feelings and attitudes and interact with others; to cope with increasingly complex communication demands; to explore and develop ideas, and access an increasing range of knowledge and ways of thinking.

The English Course is designed to facilitate the achievement of four outcomes. These outcomes are based on the English learning area outcomes in the Curriculum Framework.
Outcome 1: Listening and speaking
Outcome 2: Viewing
Outcome 3: Reading
Outcome 4: Writing

Unit 1 ENG

Students explore how meaning is communicated through the relationship between language, text, purpose, context and audience. Through responding to and creating texts, students consider how language, structure and conventions operate in a variety of imaginative, interpretive and persuasive texts. Study in this unit focuses on the similarities and differences between texts and how visual elements combine with spoken and written elements to create meaning. Students develop understanding of stylistic features and apply skills of analysis and creativity.

Unit 2 ENG

Students analyse the representation of ideas, attitudes and voices in texts to consider how texts represent the world and human experience. Analysis of how language and structural choices shape perspectives in and for a range of contexts is central to this unit. Students critically examine the effect of stylistic choices and the ways in which these choices position audiences for particular purposes, revealing and/or shaping attitudes, values and perspectives.

Leading to Units 3 ENG / 4 ENG in Year 12
Prerequisite minimum Year 10 achievement level - Mainstream English ‘C’ grade, or better. (High C recommended).
Prerequisite minimum Year 11 achievement – 55 % ‘C’ grade (High C recommended).

GEOGRAPHY ATAR  GEO

The study of geography draws on students’ curiosity about the diversity of the world’s places and their peoples, cultures and environments. It enables them to appreciate the complexity of our world and the diversity of its environments, economies and cultures and use this knowledge to promote a more sustainable way of life and awareness of social and spatial inequalities.

In the senior secondary years, the Geography ATAR Course provides a structured, disciplinary framework to investigate and analyse a range of challenges and associated opportunities facing Australia and the global community. These challenges include rapid change in biophysical environments, the sustainability of places, dealing with environmental risks, and the consequences of international integration.

Geography addresses questions about the interaction of natural and human environments within various natural and social systems. It examines the factors that impact upon decisions about sustainability, the conflicting values between individuals and groups over sustainability and the degree of commitment towards sustainable development.

Geography as a discipline values imagination, creativity and speculation as modes of thought. It provides a systematic, integrative way of exploring, analysing and applying the concepts of place, space, environment, interconnection, sustainability, scale and change.
These principal geographical concepts are applied and explored in depth through unit topics to provide a deeper knowledge and understanding of the complex processes shaping our world. Taken together, the ability of students to apply conceptual knowledge in the context of an inquiry, and the application of skills, constitute ‘thinking geographically’ – a uniquely powerful way of viewing the world.

The Course builds students' knowledge and understanding of the uniqueness of places and an appreciation that place matters in explanations of economic, social and environmental phenomena and processes. It also develops students' knowledge about the interconnections between places. Nothing exists in isolation. Consequently, the subject considers the significance of location, distance and proximity.

Through the study of geography, students develop the ability to investigate the arrangement of biophysical and human phenomena across space in order to understand the interconnections between people, places and environments. As a subject of the humanities and social sciences, geography studies spatial aspects of human culture using inquiry methods that are analytical, critical and speculative. In doing so, it values imagination and creativity. As a science, geography develops an appreciation of the role of the biophysical environment in human life, and an understanding of the effects human activities can have on environments. As a result, it develops students’ ability to identify, evaluate and justify appropriate and sustainable approaches to the future by thinking holistically and spatially in seeking answers to questions. Students are encouraged to investigate geographical issues and phenomena from a range of perspectives, including those of Aboriginal and Torres Strait Islander Peoples.

**Unit 1 Natural and ecological hazards**

The focus of this unit is the geography of natural hazards and impact minimisation. The increasing incidence of hazards, together with their impact on standards of living, has prompted the active search for proposed solutions. An understanding of how these hazards are perceived and managed at a local, regional and global level is developed in a range of ways. First, an understanding of hazards (geomorphic and atmospheric) is developed. Secondly, the spatial distribution of hazards, the cause and impact and increased risks due to urbanisation and poor management are explored. Finally, students investigate strategies to minimise the risks associated with hazards.

**Unit 2 Global networks and interconnections**

The focus of this unit is the geography of sustainable resource use. Natural resources provide the basis for economic growth in Australia. There is an unprecedented global demand for these resources. Future provision will require application of sustainable management practices to resource development and the surrounding environment. Regional perspectives supported with local area case studies are used to investigate spatial patterns that emerge between resource developments, local communities and market destinations. There is a need to evaluate management practices that can sustain these resources into the future. Approaches to sustainable management can vary significantly between countries in terms of social, economic and environmental factors. Students will compare these spatial patterns and practices in resource use in Australia to those in a less developed country.

**Leading to Units 3 and 4 in Year 12**

**Prerequisite minimum Year 10 achievement level** - Mainstream HASS B, Mainstream English B

**Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C**

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**JAPANESE SECOND LANGUAGE ATAR JSL**

**The Japanese: Second Language ATAR course**

This course progresses from the Year 7–10 curriculum, and focuses on further developing a student’s knowledge and understanding of the culture and the language of Japanese-speaking communities. Students gain a broader and deeper understanding of the Japanese language and extend and refine their communication skills. The Japanese: Second Language ATAR course can connect to the world of work, further study and travel. It also offers opportunities for students to participate in the many sister school and student exchange programs between Western Australia and Japan. The Japanese: Second Language ATAR course is designed to equip students with the skills needed to function in an increasingly globalised society, a
culturally and linguistically diverse local community, and to provide the foundation for life-long language learning.

**Course outcomes**
The Japanese: Second Language ATAR course is designed to facilitate achievement of the following outcomes.

**Outcome 1 – Listening and responding**
Students listen and respond to a range of texts.

**Outcome 2 – Spoken interaction**
Students communicate in Japanese through spoken interaction.

**Outcome 3 – Viewing, reading and responding**
Students view, read and respond to a range of texts.

**Outcome 4 – Writing**
Students write a variety of texts in Japanese.

**Structure of the syllabus**
The Year 11 syllabus is divided into two units, each of one semester duration:

**Unit 1**
This unit focuses on **日 常 生 活** (Daily life). Through the three topics: **My life**, **Home life**, and **Daily life**, students further develop their communication skills in Japanese and gain a broader insight into the language and culture.

**Unit 2**
This unit focuses on **ようこそ、私の国へ!** (Welcome to my country). Through the three topics: **Welcoming a guest**, **Seasonal activities and celebrations**, and **Healthy lifestyles**, students extend their communication skills in Japanese and gain a broader insight into the language and culture.

**Leading to Units 3 and 4 in Year 12**
Prerequisite minimum Year 10 achievement level - Mainstream English C, Japanese C.
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C

**LITERATURE ATAR  LIT**
The Literature ATAR Course focuses on the study of literary texts and developing students as independent, innovative and creative learners and thinkers who appreciate the aesthetic use of language; evaluate perspectives and evidence; and challenge ideas and interpretations. The Literature ATAR course explores how literary texts construct representations, shape perceptions of the world and enable us to enter other worlds of the imagination. In this subject, students actively participate in the dialogue of literary analysis and the creation of imaginative and analytical texts in a range of modes, media and forms.

Students respond creatively and critically to literary texts drawn from the past and present and from Australian and other cultures. They reflect on what these texts offer them as individuals, as members of Australian society and as world citizens.
Unit 1 Literature

In Unit 1 students develop knowledge and understanding of different ways of reading and creating literary texts drawn from a widening range of historical, social, cultural and personal contexts. Students analyse the relationships between language, text, contexts, individual points of view and the reader’s response. This unit develops knowledge and understanding of different literary conventions and storytelling traditions and their relationships with audiences. A range of literary forms is considered: prose fiction, poetry and drama. The significance of ideas and the distinctive qualities of texts are analysed through detailed textual study.

Unit 2 Literature

In Unit 2 students develop knowledge and understanding of intertextuality, the ways literary texts connect with each other. Drawing on a range of language and literary experiences, students consider the relationships between texts, genres, authors, readers, audiences and contexts. The ideas, language and structure of different texts are compared and contrasted. Exploring connections between texts involves analysing their similarities and differences through an analysis of the ideas, language used and forms of texts.

Leading to Units 3 and 4 in Year 12
Prerequisite minimum Year 10 achievement level - Extension English ‘B’ grade or Mainstream English ‘A’ grade.
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C

MEDIA PRODUCTION AND ANALYSIS ATAR MPA

The Media Production and Analysis ATAR Course aims to prepare all students for a future in a digital and interconnected world by providing the skills, knowledge and understandings to tell their own stories and interpret others’ stories. Students learn the languages of media communication and how a story is constructed using representations. Students are encouraged to explore, experiment and interpret their world, reflecting and analysing contemporary life while understanding that this is done under social, cultural and institutional constraints. Students as users and creators of media products, consider the important role of audiences and their context.

Digital technologies have impacted upon and extended the capacity that the media play in Australian lives. Through new technologies, the role of the audience has shifted from a passive consumer to a more active participant, shaping the media through interaction and more accessible modes of production and dissemination of media work. Students’ interaction and opportunity to use technologies enables them to engage with current media and adapt to evolving media platforms.

The creation of convergent and hybrid media means that the system of communication changes as new media are developed. The local and global media contexts are continuously interacting, making audiences global consumers of media products. Through the consumption of global media work, awareness of global issues creates a collective consciousness and sense of responsibility, giving rise to the notion of audiences also being global citizens. Through the process of investigation, students engage with topics, issues and themes which have global and local relevance, and artistic movements and styles which in turn, create new notions of media aesthetics.

The production of media work enables students to demonstrate their understanding of the key concepts of media languages, representation, audience, production, skills and processes as well as express their creativity and originality. When producing media work, students learn to make decisions about all aspects of production, including creative choices across pre-production, production and post-production phases. This provides an opportunity for students to reflect on and discuss their own creative work, intentions and outcomes. Within this process, skills are developed enabling students to manipulate technologies which simulate industry experiences.

The Year 11 syllabus is divided into two units:

Unit 1 – Popular culture
Students analyse, view, listen to and interact with a range of popular media, develop their own ideas, learn production skills and apply their understandings and skills in creating their own productions.
Unit 2 – Journalism
In this unit students will further their understanding of journalistic media. Students will analyse, view, listen to and interact with a range of journalistic genres and they undertake more extensive research into the representation and reporting of groups and issues within media work.

Leading to Units 3 and 4 in Year 12
Prerequisite minimum Year 10 achievement level - Extension English ‘C’ grade or Mainstream English ‘A’ grade. Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C

MODERN HISTORY ATAR HIM
The Modern History ATAR Course enables students to study the forces that have shaped today’s world and provides them with a broader and deeper comprehension of the world in which they live. While the focus is on the 20th century, the course refers back to formative changes from the late 18th century onwards and encourages students to make connections with the changing world of the 21st century.

Modern History enhances students’ curiosity and imagination and their appreciation of larger themes, individuals, movements, events and ideas that have shaped the contemporary world. The themes that run through the units include: local, national and global conflicts and their resolution; the rise of nationalism and its consequences; the decline of imperialism and the process of decolonisation; the continuing struggle for the recognition of human rights; the transformation of social and economic life; the regional shifts in power and the rise of Asia; and the changing nature and influence of ideologies.

The Modern History ATAR Course begins with a study of key developments that have helped to define the modern world, with special attention given to important ideas and their consequences. This provides a context for a study of movements for change in the 20th century that have challenged the authority of the nation-state, the principal form of political organisation in the modern world.

Students then investigate crises that confronted nation-states in the 20th century, the responses to these crises and the different paths nations have taken in the modern world. The course concludes with a study of the distinctive features of world order that have emerged since World War II and that are central to an understanding of the present.

The Modern History ATAR Course continues to develop the historical skills and understandings taught in the Year 7–10 History curriculum. Students pose increasingly complex questions about the past and use their historical inquiry skills, analytical skills and interpretation of sources to formulate reasoned answers to those questions. The opportunities to apply these skills are sequential and cumulative so that students develop an increasingly sophisticated understanding of the different and sometimes conflicting perspectives of the past.

Students are introduced to the complexities associated with the changing nature of evidence, its expanding quantity, range and form; the distinctive characteristics of modern historical representation; and the skills that are required to investigate controversial issues that have a powerful contemporary resonance. Students develop increasingly sophisticated historiographical skills and historical understanding in their analysis of significant events and close study of the nature of modern societies.

Unit 1 – Understanding the modern world
This unit examines developments of significance in the modern era, including the ideas that inspired them and their far-reaching consequences. Students examine one development or turning point that has helped to define the modern world. Students explore crucial changes, for example, the application of reason to human affairs; the transformation of production, capitalism and consumption, transport and communications; the challenge to social hierarchy and hereditary privilege, and the assertion of inalienable rights; and the new principles of government by consent. Through their studies, students explore the nature of the sources for the study of modern history and build their skills in historical method through inquiry.
The key conceptual understandings covered in this unit are: what makes an historical development significant; the changing nature and usefulness of sources; the changing representations and interpretations of the past; and the historical legacy of these developments for the Western world and beyond.

**Unit 2 – Movements for change in the 20th Century**

This unit examines significant movements for change in the 20th century that led to change in society, including people’s attitudes and circumstances. These movements draw on the major ideas described in Unit 1, have been connected with democratic political systems, and have been subject to political debate.

Through a detailed examination of one major 20th century movement, students investigate the ways in which individuals, groups and institutions have challenged existing political structures, accepted social organisation, and prevailing economic models, to transform societies. The key conceptual understandings covered in this unit are: the factors leading to the development of movements; the methods adopted to achieve effective change; the changing nature of these movements; and changing perspectives of the value of these movements and how their significance is interpreted.

**Leading to Units 3 and 4 in Year 12**

**Prerequisite minimum Year 10 achievement level - Mainstream HASS B, Mainstream English B**

**Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C**

**MUSIC GENERAL MUSG**

The Music General course will run parallel with the Music ATAR course. The General course is designed to provide a flexible framework through which the areas of content can be taught. The course consists of a written component and a practical component. The written component incorporates Aural and Theory, Composition and Arrangement and Investigation and Analysis. The practical component can be delivered in a different context, and is independent of the written component. Delivery of the practical component will require individual tuition from an instrumental teacher, taking place outside of the allocated classroom time.

Just as the Music ATAR course does, the Music General course provides opportunities for creative expression, the development of aesthetic appreciation, and understanding and respect for music and music practices across different times, places, cultures and contexts. Students listen to, compose, perform and analyse music, developing skills to confidently engage with a diverse array of musical experiences, both independently and collaboratively. Studying music may also provide a pathway for further training and employment in a range of professions within the music industry.

The Music General Course syllabus is designed around the same four key outcomes as the Music ATAR course.

**Units 1 and 2**

In these units, students develop their skills, knowledge and understanding to listen to, compose, perform and analyse music. They develop aural and music literacy skills and learn how the elements of music can be applied when performing, composing and responding to music. Students learn about how music is created and performed, analysing musical works and exploring how social, cultural and historical factors shape music in the specific context(s) selected for study.

Students develop skills, confidence and stylistic awareness to engage in music making as performers and audience members both individually and collaboratively.

**Leading to Music General Units 3 and 4 in Year 12**

**Prerequisite minimum Year 10 achievement level - Mainstream English C**

**Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C**

**NOTE: Students will be required to undertake vocal or instrumental tuition throughout Years 11 and 12**
**MUSIC ATAR  MUS**

The Music ATAR Course encourages students to explore a range of musical experiences, developing their musical skills and understanding, and creative and expressive potential, through the context of Contemporary Music. The course consists of a 50% written component incorporating Aural and Theory, Composition and arrangement, Cultural and historical analysis, and a 50% practical component. The practical component can be delivered in a different context, and is independent of the written component. Students can choose to perform on an instrument or voice in one of four contexts.

The Music course provides opportunities for creative expression, the development of aesthetic appreciation, and understanding and respect for music and music practices across different times, places, cultures and contexts. Students listen, compose, perform and analyse music, developing skills to confidently engage with a diverse array of musical experiences, both independently and collaboratively. Studying music may also provide a pathway for further training and employment in a range of professions within the music industry.

The Music Course syllabus is designed around four key outcomes. These outcomes are based on the Arts learning area outcomes in the Curriculum Framework.

Outcome 1: Performing  
Outcome 2: Composing/arranging  
Outcome 3: Listening and responding  
Outcome 4: Culture and society

**Unit 1**

Pop Music will be the main area of study in this unit, and students will be analysing songs from four different artists in the Pop genre. Students will also develop their aural and theory skills through regular dictations and activities and will also complete compositions, arrangements, and extended responses related to the cultural and historical side of the unit. Performance is a key aspect of the Course and students will perform numerous times throughout the unit in front of the class and to the public in an evening concert.

**Unit 2**

In this unit, students will concentrate on the area of Rock music. Students develop their analysing skills as we deconstruct the scores of four influential songs from this genre. Students also complete compositions, arrangements and extended responses on the cultural and historical background of this contemporary style of Music. Performance continues to be crucial in the Course and students will perform numerous times throughout the unit, with peers given the ability to provide constructive criticism. Students are also encouraged to perform in small ensembles so as to gain experience in group performing.

**Leading to Units 3 and 4 in Year 12**

Prerequisite minimum Year 10 achievement level - Mainstream English C  
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C  
NOTE: Students will be required to undertake vocal/instrumental tuition throughout Years 11 and 12

**POLITICS AND LAW ATAR  PAL**

Politics and law is a critical study of the processes of decision making concerning society’s collective future. The study of politics examines the structures and processes through which individuals and groups with different interests, beliefs and goals, deliberate and negotiate in order to make choices, respond to changing circumstances and enact laws. The study of law examines the system of laws governing the conduct of the people of a community, society or nation, in response to the need for regularity, consistency and justice based upon collective human experience.

A close relationship exists between politics and law. They relate through the judicial, executive and legislative arms of government; together they constitute how societies are governed. Laws generally embody social and political values that usually have a philosophical foundation.

The Politics and Law ATAR Course aims to develop knowledge and understanding of the principles, structures, institutions, processes, and practices of political and legal systems, primarily in Australia and where appropriate, other systems and/or countries. The Course challenges students to critically examine the
effectiveness of political and legal systems using criteria, such as openness, responsiveness and accountability of those systems. The Course provides for both a chronological and contemporary understanding of political and legal issues in society. The skills and values developed in the Politics and Law ATAR course aim to allow students to become informed, active and effective participants in the political and legal decisions that affect their lives within society.

The study of the Politics and Law ATAR Course contributes to students' intellectual, social, and ethical development. The course aims to support all students in developing a sense of identity, and a sense of political, legal, cultural and social awareness.

The study of the Politics and Law ATAR Course can be a valuable background to careers in law, political advocacy, public administration, international relations, foreign affairs, community development, teaching, journalism, human resource management, government and commerce.

**Unit 1 Democracy and the rule of law**

This unit examines the principles of a liberal democracy; the legislative, executive and judicial structures and processes of Australia’s political and legal system. It also examines the functioning of a non-democratic system and the processes of a non-common law system. Political and legal developments and contemporary issues are used to provide a framework for the unit.

**Unit 2 Representation and justice**

This unit examines the principles of fair elections; including the electoral and voting systems in Australia since Federation and makes reference to recent elections and the electoral system of another country. It also examines the civil and criminal law processes in Australia; and an analysis of a non-common law system. Political and legal developments and contemporary issues are used to provide a framework for the unit.

**Leading to Units 3 and 4 in Year 12**

**Prerequisite minimum Year 10 achievement level - Mainstream HASS B, Mainstream English B**

**Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C**

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**RELIGION AND LIFE ATAR REL**

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

**Leading to Units 3 and 4 in Year 12**

**Prerequisite minimum Year 10 achievement level - CRS C, Mainstream English C**

**Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C**

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**VISUAL ARTS ATAR VAR**

In the Visual Arts ATAR Course, students engage in traditional, modern and contemporary media and techniques within the broad areas of art forms. The course promotes innovative practice. Students are encouraged to explore and represent their ideas and gain an awareness of the role that artists and designers play in reflecting, challenging and shaping societal values. The Visual Arts ATAR Course allows students to develop aesthetic understandings and a critical awareness to appreciate and make informed evaluations of art through their engagement of their own art practice and the work of others.

**Unit 1 – Differences**

The focus for this unit is differences. Students may, for example, consider differences arising from cultural diversity, place, gender, class and historical period. Differences relating to art forms, media and conventions may also provide a stimulus for exploration and expression. Students explore ways of collecting, compiling and recording information and documenting thinking and working practices. They explore approaches to drawing and develop awareness that each artist has his or
her particular way of making marks to convey personal vision. Students examine how visual language and media choices contribute to the process of conveying function and meaning, and use a range of media and technologies to explore, create, and communicate ideas. Students recognise that visual artwork is subject to different interpretations and appreciate that informed responses should take into account the varying contexts within which a work of art is created. They develop awareness of styles of representation, examining distinctly individualistic approaches of artists in different times and places.

Unit 2 – Identities
The focus for this unit is identities. In working with this focus, students explore concepts or issues related to personal, social, cultural or gender identity. They become aware that self-expression distinguishes individuals as well as cultures. Students use a variety of stimulus materials and use a range of investigative approaches as starting points to create artwork. They develop a personal approach to the development of ideas and concepts, making informed choices about the materials, skills, techniques and processes used to resolve and present their artwork.

Students develop understandings of the personal and/or public functions of art in the expression of identity, for example, spiritual expression, psychological expression, therapy, ceremony and ritual, and the purposes of art, such as narrative – telling personal stories or exploring myths. They understand that art may give form to ideas and issues that concern the wider community.

Response to artwork stimulates insights, encourages deeper understandings, and challenges preconceived ideas. Students develop an awareness of how the visual arts may be both socially confirming and questioning, analyse their own cultural beliefs and values and develop deeper understandings of their own personal visual arts heritage.

Leading to Units 3 and 4 in Year 12
Prerequisite minimum Year 10 achievement level - Mainstream English B, Middle/Senior School Art C
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C
A subject levy of $80 per semester will apply to this subject
ACCOUNTING AND FINANCE ATAR  ACF

The Accounting and Finance ATAR Course focuses on financial literacy and aims to provide students with the knowledge, understandings and a range of skills that enables them to make sound financial judgements. Students develop an understanding that financial decisions have far reaching consequences for individuals and business. The Course will provide students with the understanding of the systems and processes through which financial practices and decision making are carried out, as well as the ethical, social and environmental issues involved. Through the preparation, examination and analysis of a variety of financial documents and systems, students develop an understanding of the fundamental principles and practices upon which accounting and financial management are based. An understanding and application of these principles and practices enables students to analyse their own financial data and that of businesses and make informed decisions, forecasts of future performance, and recommendations based on that analysis.

Unit 1 – Double Entry Accounting

The focus for this unit is double entry accounting for small businesses. Students apply their understanding of financial principles, systems and institutions to manage financial information and make decisions in a variety of small businesses. Students develop an understanding of the rationale for the use of particular conventions and principles and the consequences of disregarding them. Students record and process financial information using the double entry system and apply the principles of Goods and Services Tax (GST). Students learn about the various forms of business organisations adopted by small business.

Unit 2 – Accrual Accounting

The focus for this unit is accrual accounting. Students apply financial systems and principles to the operations of businesses and distinguish between cash and accrual methods of accounting. Students prepare and analyse financial reports for a variety of types of business organisations and become familiar with the main aspects of electronic processing of financial data. Students learn of the role and functions of the professional accounting and financial associations.

Leads to Year 12 Units 3 and 4

Prerequisite minimum Year 10 achievement level - Mainstream English B, Mainstream Mathematics C
Prerequisite minimum Year 11 achievement level (for Year 12 studies) - 55 % C

APPLIED INFORMATION TECHNOLOGY ATAR  AIT

Yr 11 ATAR Applied Information Technology

The development and application of digital technologies impacts most aspects of living and working in our society. Digital technologies have changed how people interact and exchange information. These developments have created new challenges and opportunities in lifestyle, entertainment, education and commerce.

Throughout the Applied Information Technology ATAR Course, students investigate client-driven issues and challenges, devise solutions, produce models or prototypes and then evaluate and refine the design solution in collaboration with the client. Students are provided with the opportunity to experience, albeit in a school environment, developing digital solutions for real situations.

The practical application of skills, techniques and strategies to solve information problems is a key focus of the course. Students also gain an understanding of computer systems and networks. In undertaking projects and designing solutions the legal, ethical and social issues associated with each solution are also considered and evaluated. This course provides students with the opportunity to develop the knowledge and skills of
digital technologies. It also encourages students to use digital technologies in order to use them in a responsible and informed manner.

The Applied Information Technology ATAR Course provides a sound theoretical and practical foundation, offering pathways to further studies and a wide range of technology based careers.

The Year 11 syllabus is divided into two units:

**Unit 1 – Media information and communication technologies**
This unit focuses on the use of digital technologies to create and manipulate digital media. Students use a range of applications to create visual and audio communications. They examine trends in digital media transmissions and implications arising from the use of these technologies.

**Unit 2 – Digital technologies in business**
This unit focuses on the skills, principles and practices associated with various types of documents and communications. Students identify the components and configuration of networks to meet the needs of a business. They design digital solutions for clients, being mindful of the various impacts of technologies within legal, ethical and social boundaries.

Leads to Units 3 and 4 in Year 12

**Prerequisite Year 10 achievement - Mainstream English C, Middle/Senior School Media or ICT C**

**Prerequisite minimum Year 11 achievement level (for Year 12 studies) 55 % c**

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**AVIATION ATAR AVN**

The Aviation ATAR Course draws from the disciplines of science, engineering, environmental science, mathematics and information technology to develop a broad variety of skills, processes, understandings that promote the safe and effective operations of the aviation industry. The course provides students with the opportunity to investigate the importance of aviation to our society, and to learn the skills and knowledge required to make informed decisions on issues relating to aviation. Students taking the Aviation ATAR Course can learn to fly and manage aircraft.

**Unit 1**
The focus for this unit is aviation concepts in contexts relating to general aviation. Students investigate the aerodynamic principles associated with lift and drag, and the various types of aircraft stability. Students investigate aircraft controls and identify the six primary flight instruments, examining their purpose, operation and limitations. Students learn the basic principles of meteorology, navigation, maps and time. They are introduced to some human physiology pertinent to aviation.

In terms of aviation development, students study the development of the various facets of aviation since the first flight, including the factors driving the developments and their impact on society.

**Unit 2**
The focus for this unit is on aviation concepts in contexts related to flying training: general aviation. Students explore the development and principles of the internal combustion aircraft engine, its use, instrumentation and limitations. They investigate fixed pitch propellers and various aircraft systems commonly found on light aircraft, the disposition of forces in specific flight manoeuvres. Students can use take-off and landing performance charts, and weight and balance charts, for a simple light aircraft (Cessna 172). Students understand aviation communications, including radios and radio wave propagation, light signals and ground symbols. They learn about flight rules and airspace classification. Students understand the purpose and necessity of civil aviation publications, and identify specific rules and regulations governing flight in and around controlled and uncontrolled aerodromes.

In aviation development, students study the structure of aviation in Australia today and the services provided. They also gain an understanding of the regulatory and support organisations servicing the aviation industry.

Excursion fees of around $200-350 per year will apply to this subject

Leading to Units 3 & 4 in Year 12
BIOLOGICAL SCIENCES ATAR BIO

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

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

In Biology, students develop their understanding of biological systems, the components of these systems and their interactions, how matter flows and energy is transferred and transformed in these systems, and the ways in which these systems are affected by change at different spatial and temporal scales. There are four units:

- Unit 1: Biodiversity and the interconnectedness of life
- Unit 2: Cells and multicellular organisms
- Unit 3: Heredity and continuity of life
- Unit 4: Maintaining the internal environment.

In Units 1 and 2, students build on prior learning to develop their understanding of relationships between structure and function in a range of biological systems, from ecosystems to single cells and multicellular organisms. In Unit 1, students analyse abiotic and biotic ecosystem components and their interactions, using classification systems for data collection, comparison and evaluation. In Unit 2, students investigate the interdependent components of the cell system and the multiple interacting systems in multicellular organisms.

Leading to Units 3 & 4 in Year 12

CHEMISTRY ATAR CHE

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

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

In Chemistry, students develop their understanding of chemical systems, and how models of matter and energy transfers and transformations can be used to describe, explain and predict chemical structures, properties and reactions.
There are four units:

Unit 1: Chemical fundamentals: structure, properties and reactions
Unit 2: Molecular interactions and reactions
Unit 3: Equilibrium, acids and redox reactions
Unit 4: Structure, synthesis and design.

In Unit 1, students use models of atomic structure and bonding to explain the macroscopic properties of materials and to predict the products and explain the energy changes associated with chemical reactions. In Unit 2, they continue to develop their understanding of bonding models and the relationship between structure, properties and reactions, including consideration of the factors that affect the rate of chemical reactions.

Leading to Units 3 and 4 in Year 12
Prerequisite minimum Year 10 achievement level – Extension Science B, Mainstream English C, Extension Mathematics 70%
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C

FOOD SCIENCE AND TECHNOLOGY       FST

Year 11 Food Science and Technology ATAR course

Food impacts on every aspect of daily life and is essential for maintaining overall health and wellbeing. The application of science and technology plays an important role in understanding how the properties of food are used to meet the needs of consumers and producers.

In the Food Science and Technology ATAR Course, students explore innovations in science and technology and changing consumer demands. New and emerging foods have encouraged the design, development and marketing of a range of products, services and systems. Students investigate food issues and advertising strategies used to promote food products. They examine influences on the supply of food for the world’s population and explore issues associated with food security, equity and sustainability.

This vibrant Course is filled with cooking experiences to develop excellent practical skills that enables students to develop their interests and skills through the design, production and management of food-related tasks. They develop knowledge of the sensory, physical, chemical and functional properties of food and apply these in practical situations.

Food and allied health sectors represent a robust and expanding area of the Australian and global employment markets. The Food Science and Technology ATAR Course enables students to connect with further education and training, university and employment pathways. The course enhances employability and career opportunities in areas that include nutrition, health, food and beverage manufacturing, food processing, community services, hospitality, and retail.

This course is designed to facilitate the achievement of outcomes related to understanding food, developing food opportunities, working in food environments and understanding food in society. This Course will be assessed with a variety of tasks mainly focusing on investigations, practical, in class response tasks, midyear and end of year examinations.

Leading to Units 3 and 4 in Year 12
Prerequisite minimum Year 10 achievement level – Mainstream English C, Middle/Senior School Foods C
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C
A subject levy of $80 per semester will apply to this subject
HUMAN BIOLOGY ATAR HBS

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

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

Unit 1 – The functioning human body

This unit looks at how human structure and function supports cellular metabolism and how lifestyle choices affect body functioning.

Cells are the basic structural and functional unit of the human body. Cells contain structures that carry out a range of functions related to metabolism, including anabolic and catabolic reactions. Materials are exchanged in a variety of ways within and between the internal and external environment to supply inputs and remove outputs of metabolism. Metabolic activity requires the presence of enzymes to meet the needs of cells and the whole body. The respiratory, circulatory, digestive and excretory systems control the exchange and transport of materials in support of metabolism, particularly cellular respiration. The structure and function of the musculo-skeletal system provides for human movement and balance as the result of the co-ordinated interaction of the many components for obtaining the necessary requirements for life.

Students investigate questions about problems associated with factors affecting metabolism. They trial different methods of collecting data, use simple calculations to analyse data and become aware of the implications of bias and experimental error in the interpretation of results. They are encouraged to use ICT to interpret and communicate their findings in a variety of ways.

Unit 2 – Reproduction and inheritance

This unit provides opportunities to explore, in more depth, the mechanisms of transmission of genetic materials to the next generation, the role of males and females in reproduction, and how interactions between genetics and the environment influence early development. The cellular mechanisms for gamete production and zygote formation contribute to human diversity. Meiosis and fertilisation are important in producing new genetic combinations.

The transfer of genetic information from parents to offspring involves the replication of deoxyribonucleic acid (DNA), meiosis and fertilisation. The reproductive systems of males and females are differentially specialised to support their roles in reproduction, including gamete production and facilitation of fertilisation. The female reproductive system also supports pregnancy and birth. Reproductive technologies can influence and control the reproductive ability in males and females. Cell division and cell differentiation play a role in the changes that occur between the time of union of male and female gametes and birth. Disruptions to the early development stages can be caused by genetic and environmental factors: inheritance can be predicted using established genetic principles. The testing of embryos, resulting from assisted reproductive technologies, is conducted for embryo selection, and the detection of genetic disease. The application of technological advances and medical knowledge has consequences for individuals and raises issues associated with human reproduction. Students investigate an aspect of a given problem and trial techniques to collect a variety of quantitative and qualitative data. They apply simple mathematical manipulations to quantitative data, present it appropriately, and discuss sources and implications of experimental error. They also consider
the limitations of their procedures and explore the ramifications of results that support or disprove their hypothesis. They are encouraged to use ICT in the analysis and interpretation of their data and presentation of their findings.

**Careers:** Human Biology studies lead to careers such as: Medicine, Medical Technology, Physiotherapy, Chiropractic, Nursing and Health Sciences, Occupational Therapy, Dentistry, Genetics, Biochemistry, Pharmacy, Speech Pathology, Audiology, Genetic Counselling, Human Movement, Nutritionist (to name a few).

**Leading to Units 3 and 4 in Year 12**

**Prerequisite minimum Year 10 achievement level – Mainstream Science B, Mainstream English B**

**Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C**

**MATHEMATICS – ATAR COURSES**

**Mathematics Applications ATAR MAA**

This Course focuses on the use of mathematics to solve problems in contexts that involve financial modelling, geometric and trigonometric analysis, graphical and network analysis, and growth and decay in sequences. It also provides opportunities for students to develop systematic strategies based on the statistical investigation process for answering statistical questions that involve analysing univariate and bivariate data, including time series data.

The Mathematics Applications ATAR Course is designed for students who want to extend their mathematical skills beyond Year 10 level, but whose future studies or employment pathways do not require knowledge of calculus. The course is designed for students who have a wide range of educational and employment aspirations, including continuing their studies at university or TAFE.

The Year 11 syllabus is divided into two units, each of one semester duration.

**Unit 1**

Contains the three topics:

Consumer arithmetic
Algebra and matrices
Shape and measurement.

‘Consumer arithmetic’ reviews the concepts of rate and percentage change in the context of earning and managing money, and provides a context for the use of spreadsheets. ‘Algebra and matrices’ continues the Year 7–10 study of algebra and introduces the new topic of matrices. The emphasis of this topic is the symbolic representation and manipulation of information from real-life contexts using algebra and matrices.

‘Shape and measurement’ extends the knowledge and skills students developed in the Year 7–10 curriculum with the concept of similarity and associated calculations involving simple and compound geometric shapes. The emphasis in this topic is on applying these skills in a range of practical contexts, including those involving three-dimensional shapes.

**Unit 2**

Contains the three topics:

Univariate data analysis and the statistical investigation process
Applications of trigonometry
Linear equations and their graphs.

‘Univariate data analysis and the statistical investigation process’ develop students’ ability to organise and summarise univariate data in the context of conducting a statistical investigation. ‘Applications of trigonometry’ extends students’ knowledge of trigonometry to solve practical problems involving non-right-angled triangles in both two and three dimensions, including problems involving the use of angles of elevation and depression and bearings in navigation. ‘Linear equations and their graphs’ uses linear equations and straight-line graphs, as well as linear-piece-wise and step graphs, to model and analyse practical situations.
Mathematics Methods ATAR  

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

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

The Year 11 syllabus is divided into two units, each of one semester duration.

Unit 1
Contains the three topics:
Functions and graphs
Trigonometric functions
Counting and probability.

Unit 1 begins with a review of the basic algebraic concepts and techniques required for a successful introduction to the study of functions and calculus. Simple relationships between variable quantities are reviewed, and these are used to introduce the key concepts of a function and its graph. The study of probability and statistics begins in this unit with a review of the fundamentals of probability, and the introduction of the concepts of conditional probability and independence. The study of the trigonometric functions begins with a consideration of the unit circle using degrees and the trigonometry of triangles and its application. Radian measure is introduced, and the graphs of the trigonometric functions are examined and their applications in a wide range of settings are explored.

Unit 2
Contains the three topics:
Exponential functions
Arithmetic and geometric sequences and series
Introduction to differential calculus.

In Unit 2, exponential functions are introduced and their properties and graphs examined. Arithmetic and geometric sequences and their applications are introduced and their recursive definitions applied. Rates and average rates of change are introduced and this is followed by the key concept of the derivative as an ‘instantaneous rate of change’. These concepts are reinforced numerically (by calculating difference quotients), geometrically (as slopes of chords and tangents), and algebraically. This first calculus topic concludes with derivatives of polynomial functions, using simple applications of the derivative to sketch curves, calculate slopes and equations of tangents, determine instantaneous velocities, and solve optimisation problems.

Mathematics Specialist ATAR  

This Course provides opportunities, beyond those presented in the Mathematics Methods ATAR course, to develop rigorous mathematical arguments and proofs, and to use mathematical models more extensively. Mathematics Specialist contains topics in functions and calculus that build on and deepen the ideas presented in the Mathematics Methods course, as well as demonstrate their application in many areas. The Mathematics Specialist Course also extends understanding and knowledge of statistics and introduces the topics of vectors, complex numbers and matrices. Mathematics Specialist is the only ATAR mathematics course that should not be taken as a stand-alone course and it is recommended to be studied in conjunction with the Mathematics Methods ATAR Course as preparation for entry to specialised university courses such as engineering, physical sciences and mathematics.

The Year 11 syllabus is divided into two units, each of one semester duration.

Unit 1
Contains the three topics:
1.1 Combinatorics
1.2 Vectors in the plane
1.3 Geometry
The three topics in Unit 1 complement the content of the Mathematics Methods ATAR Course. The proficiency strand of Reasoning, from the Year 7–10 curriculum, is continued explicitly in the topic Geometry through a discussion of developing mathematical arguments. This topic also provides the opportunity to summarise and extend students’ studies in Euclidean Geometry, knowledge which is of great benefit in the later study of topics such as vectors and complex numbers. The topic Combinatorics provides techniques that are very useful in many areas of mathematics, including probability and algebra. The topic Vectors in the plane provides new perspectives on working with two-dimensional space and serves as an introduction to techniques which can be extended to three-dimensional space in Unit 3. These three topics considerably broaden students’ mathematical experience and therefore begin an awakening to the breadth and utility of the subject. They also enable students to increase their mathematical flexibility and versatility.

Unit 2
Contains the three topics:
2.1 Trigonometry
2.2 Matrices
2.3 Real and complex numbers
In Unit 2, Matrices provide new perspectives for working with two-dimensional space and Real and complex numbers provides a continuation of the study of numbers. The topic Trigonometry contains techniques that are used in other topics in both this unit and Units 3 and 4. All topics develop students’ ability to construct mathematical arguments. The technique of proof by the principle of mathematical induction is introduced in this unit.

Recommended Mathematics Course pathways

<table>
<thead>
<tr>
<th>Year 11</th>
<th>Year 12</th>
<th>Background and Destination</th>
<th>Pre-requisite</th>
<th>Minimum Yr 10 Achievement</th>
<th>Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics Applications Units 1&amp;2</td>
<td>Mathematics Applications Units 3 &amp; 4</td>
<td>For further education and training or university entry where further mathematics may be needed. Courses where knowledge of Calculus methods are not required.</td>
<td>C grade in Mainstream Mathematics</td>
<td></td>
<td>Unit 1 &amp; 2 in Year 11</td>
</tr>
<tr>
<td>Mathematics Methods Units 1&amp;2</td>
<td>Mathematics Methods Units 3&amp;4</td>
<td>For university courses where further mathematics is likely to be needed. Also suitable for preparation for higher level training in technical areas.</td>
<td>Final course score of 70% in Year 10 Extension Mathematics</td>
<td></td>
<td>Unit 1 &amp; 2 in Year 11</td>
</tr>
<tr>
<td>Methods + Specialist Units 1&amp;2</td>
<td>Methods + Specialist Units 3&amp;4</td>
<td>Mathematics for university entry to specialist courses such as engineering, physical sciences and mathematics.</td>
<td>Final course score of 70% in Year 10 Extension Mathematics</td>
<td></td>
<td>Unit 1 &amp; 2 in Year 11</td>
</tr>
</tbody>
</table>

NB: It is a requirement that at least a C grade (55%) is achieved in Year 11 in order to progress to the paired Year 12 Course at each level.

OUTDOOR EDUCATION ATAR OED

The Outdoor Education Course focuses on outdoor activities and features an adventurous, out-of-doors component. Through interaction with the natural world, Outdoor Education aims to develop an understanding of our relationships with the environment, others and ourselves. It provides students with an opportunity to develop essential life skills and physical activity skills, and an opportunity to develop a comprehensive understanding of the environment and develop a positive relationship with nature. Environments that provide relevant practical experiences for students are unlimited. Students gain understanding and skills for safe participation in outdoor activities in the environment. They plan and then participate in a wide range of outdoor activities, such as, bushwalking, mountain biking, paddling, sailing, orienteering, caving, snorkelling, abseiling, climbing, fishing and surfing. They develop the ability to assess risk, apply the appropriate management procedures to enable safe participation and develop proficiency in emergency response.
Unit 1

The focus for this unit is being responsible in the outdoors. Students are exposed to a broad range of responsibilities involved in undertaking short duration expeditions. Through regular practical experiences and group activities, students develop flexibility, monitoring and commitment. They further develop problem-solving, decision-making and outdoor leadership skills and strategies for building effective group relationships. Students become more aware of the natural environment and develop interpretational skills. They are introduced to sustainability and local environmental management strategies and consider the role of technology in mediating human relationships with nature. Students plan for and must take part in a minimum 3 day, 2 night expedition.

Unit 2

The focus for this unit is attaining independence in the outdoors. Students further their performance and competence at increasing levels of self-sufficiency, technical understanding and physical fitness to deal with a range of challenges. They are involved in planning for participation in extended expeditions and become more proficient in outdoor activity roping and navigational skills. They are able to conduct emergency response procedures. Opportunities for self-discovery and strategies to enhance personal and interpersonal skills are provided. They deliver briefings, participate in debriefing and experience shared leadership opportunities. Students extend their understanding about the environment and develop weather forecasting skills. They are introduced to historical, cultural and Indigenous heritage. They explore current controversial environmental issues related to outdoor experiences and examples of management strategies for environments at risk in Western Australia. Students plan for and must take part in a minimum 2 day, 1 night expedition.

Camps and Excursions fees of around $400-600 per year will apply to this subject.

Leading to Units 3 and 4 in Year 12

Prerequisite minimum Year 10 achievement level – Mainstream English C, HASS (Geography) C
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C

PHYSICAL EDUCATION  PES

The Physical Education Studies Course will appeal to a broad spectrum of students, with varying backgrounds, physical activity knowledge and dispositions, including students with disabilities. Physical Education Studies contributes to the development of student’s physical, social and emotional growth. Students learn about physiological, psychological, and biomechanical principles and apply these to analyse and improve personal and group performances in physical activities. Throughout the course, students learn through integrated written, oral and active movement learning experiences. The aim is to achieve progress towards the Course outcomes of: skills for physical activity; self-management and interpersonal skills for physical activity; knowledge and understanding of movement and conditioning concepts for physical activity; and knowledge and understanding of sport psychology concepts for physical activity.

Students undertaking the Course will progressively develop skills, knowledge and understanding that will enable them to pursue their personal interests and potential in physical activity as athletes, coaches, medical staff, officials and/or administrators.

Activities and Excursion fees of around $200-$300 per year will apply to this subject.

Leading to Units 3 and 4 in Year 12

Prerequisite minimum Year 10 achievement level – Mainstream Science B, Mainstream English C
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C

PHYSICS ATAR  PHY

In the Physics ATAR Course students will learn how energy and energy transformations can shape the environment from the small scale, in quantum leaps inside an atom’s electron cloud, through the human scale, in vehicles and the human body, to the large scale, in interactions between galaxies. Students have
opportunities to develop their investigative skills and use analytical thinking to explain and predict physical phenomena.

Students plan and conduct investigations to answer a range of questions, collect and interpret data and observations, and communicate their findings in an appropriate format. Problem-solving and using evidence to make and justify conclusions are transferable skills that are developed in this Course.

In Physics, students develop their understanding of the core concepts, models and theories that describe, explain and predict physical phenomena. There are four units:

- Unit 1: Thermal, nuclear and electrical physics
- Unit 2: Linear motion and waves
- Unit 3: Gravity and electromagnetism
- Unit 4: Revolutions in modern physics.

In Units 1 and 2, students further investigate energy, motion and forces, building on the ideas introduced in the F–10 Australian Curriculum: Science. In Unit 1, students investigate energy production by considering heating processes, radioactivity and nuclear reactions, and investigate energy transfer and transformation in electrical circuits. In Unit 2, students describe, explain and predict linear motion, and investigate the application of wave models to light and sound phenomena.

**Leading to Units 3 & 4 in Year 12**

**Prerequisite minimum Year 10 achievement level - Extension Science B, Mainstream English C, Extension Mathematics 70%**

**Recommended – Extension Maths B, Mainstream English B**

**Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C**

### PSYCHOLOGY PSY

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

**Unit 1**

This unit focuses on a number of concepts that enable students to gain an understanding of how and why people behave the way they do. Students learn about the human brain and explore the impact of external factors on behaviour, such as physical activity and psychoactive drugs. Cognitive processes, such as sensation and perception, and selective and divided attention are investigated. Students examine different types of relationships and the role of verbal and non-verbal communication in initiating, maintaining and regulating these. Students are introduced to ethics in psychological research and carry out investigations.

**Unit 2**

This unit focuses on developmental psychology. Students analyse twin and adoption studies to gain insight into the nature/nurture debate and look at the role of play in assisting development. Students explore what is meant by the term personality and examine historical perspectives used to explain personality. They also explore behaviour and causes of prejudice. Psychological research methods studied in Unit 1 are further developed.

**Leading to Units 3 & 4 in Year 12**

**Prerequisite minimum Year 10 achievement level - Mainstream Science B, Mainstream English C**
Recommended – Mainstream English B, Mainstream Mathematics B
Prerequisite minimum Year 11 achievement level (for Year 12 studies) – 55 % C

SCHOOL ASSESSMENT
Courses taken at school have equal standing with those studied in any other Western Australian school. Students are responsible for the competition of all work set for the Course. Students with overdue assessments can be withdrawn from the timetable to complete the outstanding work. No prior warning may be given. The task completed at this time will contribute to the student’s profile and folio of results. All Course work completed during the year contributes to the final grade that is submitted to the School Curriculum and Standards Authority. A student’s final grade will also reflect uncompleted assessment items.
Students in Years 11 and 12 are issued with a copy of the school’s Assessment Policy which is also accessible via the school’s website.

EXAMINATIONS
School examinations are:

- Year 11 – first and second semesters
- Year 12 – semester one and at the conclusion of Term 3
- Some examinations may be scheduled during term breaks
- Semester 2 exams will be based on both Units studied in that academic year

Year 12 ATAR examinations are held in November and are primarily restricted to examination centres within WA. Practical and performance examinations will be held for some Courses during the Term 3 break. The WA School Curriculum and Standards Authority will contact Year 12 ATAR students to notify them directly of their examination centres.

Each of the Courses provides a pathway to the external Western Australian Certificate of Education (WACE) examinations. Students with special needs must ensure that the school is aware of their situation well in advance of any scheduled assessment.

EXAMINATION RESULTS
Students who sit the examinations have their results recorded on their Statement of Results. For each Course the following information is listed:

- school grade, numerical school assessment, raw examination mark, scaled mark (except in the case of English as a Second Language)
- decile place (except in the case of English as a Second Language)

A student’s Australian Tertiary Admission Rank (ATAR) is calculated by the Tertiary Institutions Service Centre (TISC) and is not included on the Statement of Results. Students seeking advice regarding university admission should direct their enquiries to TISC (08 9318 8000).
REPORTS

The school issues the following reports:

Year 11

❖ Settling In Report in Term One
❖ Semester One Report
❖ Semester Two Report

Year 12

❖ Settling In Report in Term One
❖ Semester One Report
❖ Semester Two - Statement of Results (Term 4 before departure for ATAR exam study)

Sample Course of Study Grid for a student undertaking an Australian Tertiary Admissions Ranking Pathway (ATAR external examination candidate)

Year 11/12

Courses

<table>
<thead>
<tr>
<th>Year 11</th>
<th>ENG 1</th>
<th>HIM 1</th>
<th>MAA 1</th>
<th>ECO 1</th>
<th>PSY 1</th>
<th>VAR 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG 2</td>
<td>HIM 2</td>
<td>MAA 2</td>
<td>ECO 2</td>
<td>PSY 2</td>
<td>VAR 2</td>
</tr>
<tr>
<td>Year 12</td>
<td>ENG 3</td>
<td>HIM 3</td>
<td>MAA 3</td>
<td>ECO 3</td>
<td>PSY 3</td>
<td>MPA 3</td>
</tr>
<tr>
<td></td>
<td>ENG 4</td>
<td>HIM 4</td>
<td>MAA 4</td>
<td>ECO 4</td>
<td>PSY 4</td>
<td>MPA 4</td>
</tr>
</tbody>
</table>

The information contained herein is seen as correct at time of printing
**Year 11 COURSE SELECTION FORM 2016**

Detach and return pages 43 - 46 to Student Services – By Friday 14/8/2015

NAME: __________________________________________  
*(please print)*

**ATAR pathway students:**

Choose **6** Courses from those listed in the Course Selection Handbook. If you are planning to get a TER score for University entry you **must** select English/Literature – mandatory. You **must** also select **at least** 1 English and 1 Mathematics subject (which covers Lists 1 and 2 for breadth of study requirements).

**STUDENTS ARE TO COMPLETE ALL THE DATA IN THE FOLLOWING TABLE PRIOR TO SUBMISSION.**

<table>
<thead>
<tr>
<th>COURSE NAME and CODE (must be included)</th>
<th>List (A or B)</th>
<th>Grade (1)</th>
<th>Yr10 Semester 1 Stream and Grade (2)</th>
<th>Prerequisite Met? (Y/N)</th>
<th>Signed by HOD/Coordinator or class teacher if prerequisite is met</th>
</tr>
</thead>
<tbody>
<tr>
<td>eg. Human Biology ATAR</td>
<td>B</td>
<td>Science (Main) B English (Main) C Extension (Ext) C Mainstream A</td>
<td>Y</td>
<td>Y (signed)</td>
<td></td>
</tr>
<tr>
<td>Course 1 (English)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course 2 (Mathematics)</td>
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<tr>
<td>Course 3</td>
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<td>Course 4</td>
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<tr>
<td>Course 5</td>
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</tr>
<tr>
<td>Course 6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NOTES:

(1) **Grade prerequisite/s**
Refer to Course information in the Course Selection Handbook. Put N/A if no prerequisite is set.

(2) **Semester 1: Stream / Grade**
Refer to your GMAS Semester 1 report for the relevant Course eg. Science for Psychology, HASS for Geography, PE for Physical Education Studies. Seek updated marks/grades if needed.

SEE OVER PAGE

(3) **Selection approved – signed**
Head of Department /Coordinator. This form needs to be signed by each of the relevant Heads of Department/Coordinators before it will be accepted for submission. Class teachers can sign if pre-requisites are met, but only HoDs can sign if pre-requisites are not met.

Signed

Parent _____________________ Head of Senior School ___________________ DATE: ________

This section is for staff to complete should a student's Course selection not meet any of the required criteria. For example:

Timetable clash, prerequisites (grade + percentage) not met, TER requirements not met, List 1/2 requirements not met, Literacy requirements not met, subject not running due to insufficient student numbers, etc. **(See additional notes at the end of this section before filling out and returning this sheet)**.

Grid line _____ Selection: __________________________

Comments___________________________________________

Reviewed Course choice

Comments

___________________________________________

signatures required

Parent _____________________ Head of Department/Senior School____________________

Grid line _____ Selection: __________________________

Comments___________________________________________

Reviewed Course choice_____________________________________

Comments______________________________________________

___________________________________________

signatures required

Parent _____________________ Head of Department/Senior School____________________
See next page for explanatory notes.
NOTES:

1. “Reviewed Course” choice is what GMAS recommends the student changes to, based on the student’s level of achievement in Year 10 (does this meet pre-requisites?) and what this indicates in terms of their chances of succeeding (passing or preferably achieving a % of at least 55-60% to contribute to a competitive ATAR score) in this subject. Alternatively it may be an alternative course recommended as the student selection does not meet some other criteria eg. breadth of study, University course pre-requisites, subject not running etc.

2. Parent “comments” could be:
   i. change accepted
   ii. original selection to remain – contrary to recommendations
   iii. original selection to remain subject to final year performance improving or progress in the first 6 weeks of Year 11 proving satisfactory OR
   iv. other (please specify)