NEWTON MOORE SENIOR HIGH SCHOOL

Achieving Today for Tomorrow

Year 10 Course Selection Handbook
2025

YEAR 10 COURSE INFORMATION

Students complete subjects from learning areas outlined in the Western Australian Curriculum. In some Learning Areas students will have a choice of courses.

LEARNING AREA	HOURS PER WEEK
Compulsory Courses	
English	4 hours
Health and Physical Education	3 hours
Humanities and Social Sciences	4 hours
Mathematics	4 hours
Science	4 hours
Elective Courses (choice of 3 courses per semester)	2 hours each
TOTAL	**25 hours**

Students are able to select a combination of courses that meet the maximum contribution value of $235. Some courses attract a compulsory charge taking their total school fees above $235. Following School Board approval, the Contributions and Charges information booklet will be emailed to parents in Term 4, 2024. This will

All parents who hold a current Health Care Card or are eligible for ABSTUDY can apply for **$235 towards their school fees and up to $115 towards uniform costs.** Applications must be completed through the school before the end of Term 1, 2025. Late applications are not accepted.

Year 9 course fee structure:

Subject	Hours/week	Contribution	
English	4 hours	$28	
Mathematics	4 hours	$28	
Science	4 hours	$35	
Humanities and Social Sciences	4 hours	$28	
Health and Physical Education	3 hours	$26	
6 x Elective courses (3 per semester)	3 x 2 hours	$90	+ compulsory charges
TOTAL	**25 hours**	**$235**	**+ compulsory charges**

Specialist Programs

We also offer specialist programs that are studied in place of one or more of the courses listed above. There is a selection process for these courses.

Department of Education Approved Specialist programs

- Science Horizons
- Engineering Specialist

Moore Academy of Sport and Health (MASH)

Living and Leading (run in conjunction with the STARs Academy and Clontarf Academy)

On the following pages you will find more detailed information about each course on offer.

COMPULSORY SUBJECTS

ENGLISH

Students will consolidate their understanding of textual construction and analysis while increasing focus on perspectives, attitudes, values and the ideological function of texts. They interpret, create, evaluate, discuss and perform a wide range of literary texts with increasingly complex structures, language and style. Students undertake courses which aim to address the diversity of their skills and understanding in preparation for their Senior School studies at Foundation, General or ATAR level, and students identified as likely to benefit from remediation are provided this opportunity through engagement in the Literacy Support program that integrates with the curriculum.

The English curriculum is built around the three interrelated strands of language, literature and literacy. Together, the strands focus on developing students' knowledge, understanding and skills in listening, reading, viewing, speaking, writing and creating:

HEALTH AND PHYSICAL EDUCATION

Physical Education
A key goal of Year 10 Physical Education is to encourage 'active participation' while allowing all students to achieve their best. Students have an opportunity to demonstrate their self-management skill. A range of different sporting and recreational opportunities will be made available to students. The Western Australian curriculum stipulates that all high school students are to be involved in 2 hours of physical activity per week during school hours. The Newton Moore Senior High School physical education program promotes the value of regular physical activity for general health and wellbeing, and in particular, emphasises that students do not have to be good at sport to be physically active.

Health Education
Emphasis is placed on taking ownership of health decisions and the importance of a healthy lifestyle. The major areas of study include: alcohol and other drug related issues, growth and development issues in adolescence and nutrition. Career education is also an important component of Health Education. Students reflect on their strengths to identify career areas of interest. They investigate different career options and what they need to do to achieve them. An emphasis is placed on preparation to make subject decisions for Year 11 and 12.

Physical Education Clothing
Students are required to change their clothing for Physical Educations classes. Students are encouraged to shower after physical activity. For this reason, students will need their own towel and change of items such as underwear, socks etc. All clothing and towels should be labelled with student's name written in a recognisable place. The school sports uniform consists of yellow Physical Education shirt, black shorts, airflow or parasilk. Black tracksuit pants may be worn during cold weather. Students that have Physical Education in the first class of the day may arrive in NMSHS PE uniform although must change into NMSHS school uniform following that class.

HUMANITIES AND SOCIAL SCIENCES

In Semester One the concepts of place, space, environment, interconnection, sustainability and change continue to be developed as a way of thinking. Students study the management of environmental resources with a particular focus on climate change, water scarcity and sustainability. They also investigate the geography of human wellbeing to understand the challenge of measuring and managing wellbeing on both a local and international scale. In Economics and Business students further their understanding of the concepts of making choices by investigating factors that influence major consumer and financial decisions. They look at the distribution of income and wealth in the economy and learn how governments manage the economy to improve economic performance and living standards.

In Semester Two students develop their historical understanding through key concepts, including evidence, continuity and change, cause and effect, perspectives, empathy, significance and contestability. These concepts are investigated within the historical context of the modern world and Australia from 1918 to the present, with a focus on Australia's involvement in World War II. In Civics and Citizenship students continue to build on their understanding of the concepts of democracy, democratic values, justice, and rights and responsibilities. They explore Australia's roles and responsibilities at a global level and its international legal obligations.

MATHEMATICS

Students will work in ability groups that have programs developed to meet their academic needs with a focus on preparation for Senior School and beyond, including targeted and extension pathways. All students study the mathematics content strands: Number and Algebra; Measurement and Geometry; and Statistics and Probability. Students are also shown the thinking of mathematics explicit in the proficiency strands: Understanding; Fluency; Problem Solving; and Reasoning. Students who show great aptitude for mathematics are invited to participate in a variety of extension programs. These include the Australian Mathematics Competition, Problem Solving Olympiad and International Mathematical Modelling Challenge.

At the Year 10 level:

- **understanding** includes applying the four operations to algebraic fractions, finding unknowns in formulas after substitution, making the connection between equations of relations and their graphs, comparing simple and compound interest in financial contexts and determining probabilities of two- and three-step experiments
- **fluency** includes factorising and expanding algebraic expressions, using a range of strategies to solve equations and using calculations to investigate the shape of data sets
- **problem-solving** includes calculating the surface area and volume of a diverse range of prisms to solve practical problems, finding unknown lengths and angles using applications of trigonometry, using algebraic and graphical techniques to find solutions to simultaneous equations and inequalities and investigating independence of events
- **reasoning** includes formulating geometric proofs involving congruence and similarity, interpreting and evaluating media statements and interpreting and comparing data sets.

SCIENCE

This course has a greater emphasis on providing the skills and background knowledge needed for Senior School science and on evaluating the impact of science on societies and environments. Students study motion and energy conservation in Physics, reactions and equations, plus reaction rates and biotechnology and genetics in Biology. In Earth and Space, students study the universe including galaxies, stars and solar systems in addition to global systems and interactions.

ELECTIVE COURSES

Courses may be studied for one semester or full year as shown.

APPROVED SPECIALIST PROGRAMS

Students have the opportunity to apply for selection into Department of Education Approved Specialist Programs: Science Horizons or Engineering. These are a unique educational experience offered state wide that brings together highly able students with a passion for science. Both programs cover the required curriculum whilst enriching learning experiences through acceleration and extension according to the needs of the students. Healthy competition between individuals is fostered in a rich learning environment where collaborative extension is

encouraged. Lessons cater for high achievers where thinking outside the box is the norm. Students develop team building skills by participating in Science projects, contributing to the running of a Science Fair, competing in Science and Mathematics competitions and presenting and attending workshops, worksites and conferences.

Both Approved Specialist programs provide a strong foundation for successful completion of Senior School Science and Mathematics courses and enhance university entrance into Science and Engineering courses. Expert teachers who have proven competence in their respective fields teach these classes at Newton Moore Senior High School.

Scholarships are also available. Please enquire at the school.

Science Horizons (full year)
Science Horizons students participate in exciting science research projects in all areas of science. These include enrichment research modules on frog populations, macro invertebrate studies and chemistry of the Wetlands. Students as "Marine Managers" work with the Marine Scientists at the Bunbury Dolphin Centre. The program encourages problem solving and lateral thinking in a cooperative team environment. The program is innovative and engaging allowing students to extend and develop their skills while working with technology. Students also complete extension investigations in Chemistry and Physics.

Engineering Specialist (full year)
This subject provides an introduction to basic electronic theory and skills and has an emphasis on practical work with a component of computer programming to control electronic model. Students are exposed to PICAXE microcontrollers, exciting, reprogrammable chips that can be used as 'brains' in many kinds of electronic projects. Skills gained include; circuit reading, programming, soldering, and the use of a multimeter for testing various components and circuits. Students are assessed through completion of electronic models with description and drawings. The Engineering Specialist program encourages problem solving and lateral thinking in a co-operative team environment. The program is innovative and engaging allowing students to extend and develop their skills while working with technology. Students have the opportunity to participate in the F1 in schools competition and the Subs in Schools Competition.

ACADEMIES

Living and Leading (Clontarf Football Academy, STARs Girls' Academy) (full year)
Living and Leading is an integral part of the Academy Programs being offered to Indigenous students in Years 7 to 10. This course develops practical lifestyle skills partnered with building self-esteem, developing leadership skills and group cohesiveness. Skills will be enhanced by participating in a variety of activities where students will be involved in personal and group goal setting. Students investigate subjects such as career planning, Keys for life activities as well as completing their WHS Smartmove certificate.

HEALTH AND PHYSICAL EDUCATION

Moore Academy of Sport and Health (MASH) (full year)
MASH is a school-based enrichment program designed to challenge and extend students who show skill in sport, leadership and teamwork. High standards of behaviour and attitude towards physical activity are essential to be successful in this program. Applications are included in the Newton Moore Senior High School enrolment package.

Whilst in the program students are engaged in many different types of sports, with an emphasis on extending students' leadership and communication skills are key elements of the program. Students have opportunity to establish links with the school community, partner schools, local and state partner bodies through officiating, coaching or sports administration.

Students are immersed in both practical and theoretical activities where they can develop their knowledge and understandings of sport, skills, strategies and tactics, continuing to grow as a capable sportsperson within their chosen field. The MASH course develops a career pathway towards university studies or sport and recreational industries.

Community Recreation (one semester)
This subject reflects the role physical activity plays in the life of individuals and is an extension of year 9 recreational pursuits. The course is developed around the needs of the students and involves participation in a range of sports and physical activities. Students are also introduced to activities provided by the local community, such as ten pin bowling, indoor beach volleyball and lawn bowls. This course will also encourage students to take on the role of a leader and have input into the organisation of the lessons.

Personal Fitness (one semester)
This is a follow on from Year 9 Personal Fitness and is a very active subject designed to provide students with an understanding of their personal physical fitness needs. Students will acquire skills in decision-making and planning and goal setting to increase their fitness. Students will develop knowledge and correct practices in a range of physical activities which may include weight training, circuit work, running, team sports.

Moore Sports (one semester)
This subject is designed to provide students with the opportunity to extend their skills in a range of sports that is an extension of general Physical Education it includes non-tradition sports such as (but not limited to) sof-crosse, badminton, tennis. ultimate, NFL and Indoor activities (Handball). Consideration will be given to developing game sense as well as improving tactics and strategies, umpiring, scoring and game organization for each of these sports.

Outdoor Education (one semester)
This subject is designed for students who have had a background in camping and wish to improve their personal organisation, self-reliance and ability to meet a challenge when involved in outdoor activities. Students will further develop their campcraft and bushcraft skills, examine lightweight camping, be active in expedition preparation, Orienteering, and develop basic roping skills on the climbing wall. Students who satisfactorily complete all of the learning activities and demonstrate a responsible and safety conscious attitude in class will be invited to participate in an overnight hiking and bush camping expedition.

Year 10 Specialised Phys Ed (one semester)
Designed to follow on from Year 9 Specialised Phys Ed and to meet the needs of students wishing to extend themselves in the area of sports performance. Students completing this course will develop knowledge, skills, tactics and strategies throughout the course of the semester. Underpinning the course will be a cross-training program focused on developing sports related fitness levels. This elective to suited to both boys and girls.

- Semester 1 – **Football (AFL)**
- Semester 2 **– Basketball**

LANGUAGES

Languages are suitable for students who are interested in career fields such as tourism, international trade and business, public relations, social services, hospitality, government/public service and the mining industry. They are also useful for students who would like to travel the world in the future or who enjoy learning about different cultures and societies. Students who choose to study Languages beyond the compulsory level will have opportunities to participate in international study tours.

Japanese (full year)
This course is suitable for students who have studied Japanese in Year 9. Students who have not studied Japanese in the previous year, but are dedicated to learning the subject, will also be considered. This course will prepare students for Japanese in Year 11 and 12 ATAR. The topics covered within this subject aim to provide students with the ability to maintain a general conversation in Japanese, as well as acquire further understanding of some of the cultural practices of the Japanese people. Students will spend time reviewing and extending on the previous year's key language concepts before pursuing language associated with personal milestones, language study, healthy food choices, shopping, country vs. city life, school trips and part-time jobs. Students will engage in listening and speaking, reading, viewing and responding, and writing activities in order to meet the outcomes of this course.

SCIENCE

Aquaculture (one semester or full year)
This is an exciting, hands-on environmental option, based mainly outside the classroom. Students have the opportunity to make a difference to the environment, working on projects out in the community and within the local marine environment, school wetlands and city ponds through detailed analysis of water testing, seasonal change, flora and fauna and coastal structural studies. Students are involved in real scientific research, linking in with bodies such as DEC, and local Aboriginal groups, Training WA and Universities. Assessment incorporates participation in practical work (with an emphasis on work related to rehabilitation of the wetlands, city ponds and coastal areas), and a log book detailing field work and project work. Excursions to places of interest are an important component of the course. This course will prepare students to study Certificate II Aquaculture in Year 11/12.

TECHNOLOGIES

Café Culture (one semester or full year)
The Food Hospitality and Café Culture courses are an excellent opportunity for students wanting to develop their knowledge and understanding of food and the food industry. These courses focus on developing culinary skills, fostering a passion for cooking and also gaining the confidence to prepare meals at home and for others. Students will develop an understanding of meal planning, preparing, producing and evaluating. There is a strong emphasis on working safely and hygienically and catering for functions and for special occasions. Students may also be able to learn about the coffee machines in an introduction Barista unit. These courses will provide a practical foundation for the Food Science and Technology Course in Year 11, as well as preparing students with valuable life skills for the world beyond. These are separate courses so students can choose to do one semester or two semesters of food studies.

Child Development (one semester)
This course focuses on the development and care of children from birth until 6 years old. Students engage in many practical activities including producing meals for toddlers, constructing small items for a new baby and producing and designing simple toys. Within this course there is also a strong focus on the health and safety of children and working within the childcare sector. This course is a good introduction to Certificate II in Community Services which is offered in year 11 and gives the students an opportunity to participate in our school based playgroup.

Computer Science (one semester)
Students in this course will develop skills and knowledge through practical computing activities and theoretical exploration of digital technologies. Students complete a series of modules that require them to create solutions for real world problems in the field of computing. Students will work individually and in groups on topics such as *database design*, *web construction*, *algorithms and programming*, *digital media* and *social and ethical decision making*. Students will engage with industry standard software such as Microsoft Access, Excel, the Adobe Suite and Python. This course is a great launching pad for a career in Computer Programming, Project Management, Software Engineering and Information Technology.

Fashion Design (one semester)
Students learn how to create fashion items and become efficient in the use of the sewing machine, embroidery machine and using commercial patterns. Students generate and develop design ideas and investigate embellishment techniques to colour and decorate textiles items. Projects are chosen from a range of focus areas according to the student's interest and skills. These may include quilts, beach bags and fashion items such as shorts and bamboo shirts.

Gaming (one semester)
Students are introduced to or extend their knowledge and skills in character development, narrative structure, stereotypes in game design through the hero's journey. They evaluate and analyse the features of games and apply their findings to their own designs. They follow a design process, experimenting with a range of software to create

original 2d and 3d games. Students explore social and ethical issues that are associated with gamers and gaming and their impacts on society.

Materials Design (Woodwork/Metalwork) (one semester)
Students develop their workshop skills by completing practical activities in the contexts of wood and metals. They are introduced to different equipment ranging from lathes, saws, milling machines, oxy-acetylene torch and various other hand and power tools. Students are encouraged to develop their skills through a variety of projects using the design process. Projects may include: cheval mirror, candle holders, portable storage unit, decorative shelf/ hanging basket bracket and BBQ spatula.

Mechatronics (one semester)
Mechatronics is a combination of mechanical engineering, electrical engineering, computer control and information technology. This course in robotics, electronics, programming and engineering allows students to work through a series of activities to construct an electronic circuit game, gaining an understanding about circuitry, soldering and electronic components such as switches, buzzers and LEDs. Students use the Inventor software to plan and design their projects. They also are introduced to the open source electronics platform Arduino. Projects include the Steady Hand Game and robotics.

Computer Aided Design (CAD) (one semester)
If you are thinking about a job in building and construction, engineering, drafting, surveying, architecture etc then this is a great way to gain the skills and knowledge to improve your communication skills through design. Students learn to read and interpret plans, and are introduced to computer and mechanical drawing through a series of practical activities. They develop their skills in mechanical instruments, freehand sketching, rendering and the use of software such as Auto Desk Inventor. Students learn how to create parts, assemblies and working drawings for different projects including 3D printed prototypes.

Media (one semester)
Everything we watch, read, hear and play with, has at some stage been constructed by the media industry. As a year 10 student you will have the ability to understand how and why different media is made. This course aims to develop your awareness of media and how you interact with it. You will also enhance your technological skills and explore the many ways that you can use media to express yourself. Topics include Social Media, Reality TV, Advertising, Graphic Design, Photography and Video Production. Particular emphasis is placed on the creation and manipulation of digital and interactive media using industry standard software such as Adobe Photoshop CC, Illustrator, Premier Pro CC, Sony Acid Studio and Audacity.

THE ARTS

Dance (one semester or full year)
The Dance course in semester 1 introduces the fundamentals of movement and builds on students existing knowledge and dance skills. Students will be involved in developing and performing small group and troupe dances. Students will be involved in creating original dance works for performance at Yohfest and around the schools. They will also get the opportunity to apply their knowledge through choreography and creation of original dance pieces. Never miss a chance to Dance.

Music (one semester or full year)
Students will learn more complex music skills and will apply their knowledge through practical and written tasks that involve the creation of some wicked tunes. The focus is on developing a solid understanding of theoretical concepts through studying existing music and creating original contemporary works. This course is for students wishing to continue their contemporary music studies. Prior Music experience is recommended.

Music Specialist (full year)
Students will engage in a study of Jazz and contemporary music, with a bit of Dark ages and classical music thrown in. They will complete practical tasks on a chosen instrument exploring the sound of these time periods. Students continue to develop their skills and knowledge of music conventions in composition and performance.

Students who receive Instrumental Music School Services instrumental lessons, through the school, are required to participate in instrumental and ensemble lessons before or after school in line with the Instrumental Music School Services policy (IMSS).

- *Instrumental lessons* involve weekly, small group lessons on an instrument. Lessons are held during school hours and are on a rotating roster. It is the students' responsibility to regularly check their lesson times.
- *Ensemble lessons* involve full participation in a school band, including weekly morning rehearsals, various performance engagements during the year and an annual camp.

Visual Arts (one semester or full year)
In our Visual Arts program, students have the opportunity to cultivate their skills and expand their knowledge through engaging studio work, exhibitions, and critical reflection, while also exploring different mediums such as drawing, painting, ceramics, textiles, printmaking, and sculpture. Additionally, students will study art history, analyses and investigations. With a strong commitment to celebrating individuality, promoting enjoyment, fostering independent learning, and providing a nurturing environment, our Visual Arts program is dedicated to facilitating artistic growth and empowering students to express themselves authentically**.**