NEWTON MOORE SENIOR HIGH SCHOOL

Achieving Today for Tomorrow

Year 9 Course Selection Handbook

2025

YEAR 9 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 continue developing skills in text analysis and construction while focusing on style, language and structure. They interpret, create, evaluate, discuss and perform a wide range of literary texts, including newspapers, film and digital texts, fiction, non-fiction, poetry, dramatic performances and multimodal texts. Literary texts are drawn from a range of genres and involve complex, challenging and unpredictable plot sequences and hybrid structures that explore themes of human experience and cultural significance, interpersonal relationships, and ethical and global dilemmas, while the informative texts studied represent a synthesis of technical and abstract information. Students identified as likely to benefit from extension or remediation are provided these opportunities through engagement in the English Enrichment program or 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 for Year 9 Physical Education is to encourage 'active participation' while allowing students to acquire new skills in a range of sports and activities. 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 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.

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. Students investigate world biomes, looking at the production of food and fibre and the pressure this places on significant ecosystems. They explore how people are connected to places in a variety of ways and the impact this has on the environment. In Economics and Business students investigate the connections between consumers, businesses and government, both within Australia and with other countries, through the flow of goods, services and resources in a global economy.

During Semester Two students develop an 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 making of the modern world from 1750 to 1918. They consider how new ideas and technological developments contributed to change in this period, the significance of World War I. In Civics and Citizenship students look at the way citizens' decisions are shaped during an election campaign and how government is formed. Students investigate how Australia's court system works in support of a democratic and just society.

MATHEMATICS

All students' abilities in Mathematics are catered for by students working in ability pathways 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, Western Australian Junior Olympiad and International Mathematical Modelling Challenge.

At the Year 9 level:

- **understanding** includes describing the relationship between graphs and equations, simplifying a range of algebraic expressions and explaining the use of relative frequencies to estimate probabilities and of the trigonometric ratios for right-angle triangles
- **fluency** includes applying the index laws to expressions with integer indices, expressing numbers in scientific notation, listing outcomes for experiments, developing familiarity with calculations involving the Cartesian plane and calculating areas of shapes and surface areas of prisms
- **problem-solving** includes formulating and modelling practical situations involving surface areas and volumes of right prisms, applying ratio and scale factors to similar figures, solving problems involving right-angle trigonometry and collecting data from secondary sources to investigate an issue
- **reasoning** includes following mathematical arguments, evaluating media reports and using statistical knowledge to clarify situations, developing strategies in investigating similarity and sketching linear graphs.

SCIENCE

Students will consolidate scientific relevance of previously covered concepts to their daily lives. They will continue to develop their research and investigative skills. Students will study the transfer of energy in Physics, marine vertebrates in Biology (looking at coordination of the body systems and ecosystems), chemical reactions in Chemistry (looking at the atom, radiation and chemical processes required for life). In Earth and Space, students study global patterns and geological activity.

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 Specialist. 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 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.

Scholarships are also available. Please enquire at the school.

Science Horizons (full year)
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)
Student activities include: robotic and electronic engineering, chemical, mechanical, Picaxe electronics and programming, solar car models, F1 in Schools, Subs in Schools, human powered vehicles, CAD programming Auricon bridge building, materials and structures. 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. Student will have the opportunity to develop skills such as: 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 cooperative team environment. The program is innovative and engaging allowing students to extend and develop their skills while working with technology. Chemical engineering is also investigated, looking at recycling plastics and refining the fuel produced.
Students are encouraged to also select CAD.

ACADEMIES

Living and Leading (Clontarf Football Academy, STARs Girls' Academy) (full year)
Living and Leading is an integral part of the Academy Programs for Aboriginal students. This course develops practical lifestyle skills partnered with building self-esteem, developing leadership skills and group cohesiveness. Skills will be enhanced through a variety of activities where students will be involved in personal and group goal setting. Students investigate and explore topics such as racism in society and throughout history, Australia's white policy, NAIDOC projects team building activities, as well as continuing their Year 7 and 8 Noongar language lessons.

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 practical and theoretical activities where they can develop their knowledge and understanding of sport, skills, strategies and tactics and continue 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.

Personal Fitness (one semester)
This very active subject is will provide students with the opportunity to be actively involved in understanding their personal physical fitness needs and improving their overall aerobic capacity. Students acquire skills in decision-making, planning and goal setting, also allowing students to develop knowledge and correct practices in a range of physical activities which may include weight training, circuit work, aerobic running, team sports.

Moore Sports (one semester)
This course is an extension of general Physical Education and includes non-traditional 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 tournament organisation for each of these sports.

Outdoor Education (one semester)
This subject is designed for students who have 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 will be invited to participate in an overnight hiking and bush camping expedition.

Recreational Pursuits (one semester)
This subject is designed to provide students with the opportunity to participate in traditional recreational sports. This program will extend the general physical education program. Students will have the opportunity to be involved in the development of the program to cater for the needs of the students involved. Potential activities include: Spike ball, Wakka ball, table tennis, indoor soccer, floor hockey, bocce, gogo golf and beach volleyball.

Specialised Phys Ed (one semester)
Designed to meet the needs of students wishing to extend themselves within the area of sports performance and is an extension of standard Physical education classes. Students completing the course will develop knowledge, skills, tactics and strategies. Underpinning the course will be a physical 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. Languages are studied over the full year.

Japanese (full year)

This course is suitable for students who are new to the language and for those who have previous language experience. The topics covered within this subject aim to provide students with the ability to initiate and 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 daily routines, school and school events, hobbies, describing people and celebrations. Students will engage in listening and speaking, reading, viewing and responding, and writing activities in order to meet the outcomes of this course.

SCIENCE

Wetland Studies (one semester or full year)
Wetland Studies 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 in the community in city ponds and rivers and the school wetlands. They do this through analysis of water testing, seasonal change, flora and fauna studies, including frog trapping and fish breeding. Students are involved in genuine scientific research, linking to agencies such as DEC, WA Museum, TAFE and Universities and local indigenous groups. Fieldwork forms a high component of assessment. Students can select to do this elective for the whole year or semester only.

TECHNOLOGIES

Computer Aided Design (CAD) (one semester)
This course provides students with an insight into the fields of Architecture, Building and Construction, Engineering and product design. Students are introduced to International and Australian Drawing Standards through hands on practical activities. They use industry standard CAD software to develop their skills in computer and mechanical drawing, creating parts, assemblies and working drawings that can then be brought to life using machinery such as the 3d printer and laser cutter. Projects include name tags and a toy vehicle.

Fashion and Textiles (one semester)
This course provides students an opportunity to develop skills in the area of clothing and textiles. Students learn more about the features and function of sewing machine and embroidery machines, and investigate the properties and functions of various fabrics and fibres. They will be encouraged to use their creativity to produce articles and garments, which may include a market bag, sweet dreams pillowcase and a fashion garment. This is a great unit to help students with life skills required for both recreational enjoyment or a future fashion career.

Food Technologies (one semester or full year)
Students develop their food production skills by completing practical and theoretical work involving a variety of food topics. Students will be introduced to international cuisine, food packaging and labelling, adolescent food choices and catering and sharing of food. Emphasis in this course is placed on both individual and small group work to produce a range of foods. Students will also complete tasks within strict time constraints, which are both requirements for future work in the food industry.

Materials and Design - Woodwork (one semester)
Students develop their workshop skills by completing a semester of practical work involving the use of wood and other materials. The focus of this course is to introduce students to a range of different machinery and power tools to create practical household projects. Machinery and power tools used include the laser cutter, bandsaws, compound mitre saws, routers and various other hand and power tools. Students are encouraged to develop their skills through a variety of practical hands-on activities and projects. These include roll top bread box and a wooden stool.

Materials and Design - Metalwork (one semester)
In this metalwork class, you'll learn the fundamentals of metalworking while creating unique and beautiful pieces of steel art. You will work with a range of tools and materials to learn how to shape, heat and bend metals using various techniques such as forming, joining, hammering and welding. Using your imagination and new skills, you'll get hands-on experience building your own sculpture from recycled scrap metal. Students are encouraged to develop their skills through a variety of projects and use the design process to create different products. Projects may include: Candle holder, decorative shelf/ hanging basket bracket, BBQ spatula, nut man or tool box.

Gaming (one semester)
In this course students investigate the narrative structure of video games and analyse the game play of modern and popular games. Students apply their findings to develop their own video games, creating their own characters, strategies, levels and room designs with the use of the Game Maker software. Students will refine their programming skills through the use of different on-line programming tools. This is a great introduction for anyone interested in the process of developing a video game, programming or game design.

Multimedia (one semester)
Students use the elements of graphics, text, audio and video to create different multimedia products. The focus of this course is on film analysis and design. Students work collaboratively, taking on specific roles, to plan, co-ordinate, produce and edit their own short film. They gain an understanding of the codes and conventions and the deliberate decisions made in the creation of different media products. Students use the adobe suite and other programs to create, promote and advertise their film.

Photography (one semester)

This is an introductory course in the photography techniques that make great photos. Students learn the technical aspects of controlling the camera's features as well as care and maintenance of their camera. Students are introduced to the compositional techniques required to take photos and apply these to their own artistic creations. Topics covered include rule of thirds, leading lines, framing, pop art and image manipulation through Photoshop.

Robotics (one semester)
This introductory course in robotics investigates the materials and components that go together to make a robot and the instructions that lie behind the machine. Students use the Lego EV3 Mindstorms robotics kits to engineer and construct a variety of robots that carry out tasks that sense the environment around them. Projects include the creation of a planetary rover to explore and respond to its surroundings and the manipulation of sensors, motors and programming modules.

THE ARTS

Dance (one semester)
The course 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 investigating costume design and preparing Dances for performances. 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)
Music is for students who have dabbled with music in the past and who would like to continue their musical journey. Students will learn basic music theory skills through practical tasks. Students will also complete a study of world music, musical theatre and learn to play existing music for the audiences of today. students will start experimenting with creating their own music using their understanding of musical theory. Students will have the opportunity to study contemporary music, analysing and playing existing music and writing their own songs or instrumental music. Prior music experience is recommended.

Music Specialist (full year)
Students will engage in an in-depth study of the elements of music, develop existing music skills and create original music. Students will be studying a range of music from Australia and around the world. This course will begin to explore music composition and performance conventions to prepare students for a potential career in music.
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 Art (one semester or full year)
This course provides students with the opportunity to develop their creative self through an exploration of unusual ways to decorate different surfaces (such as paintings, fabric and sculptures) with different mediums (such as inks, paints, pencil, pen, paint brush or printmaking).

Semester 1 will focus on: drawing, pottery and printmaking.
Semester 2 will focus on painting, sculpture and textiles.