



Achieving Today for Tomorrow

**Newton Moore**  
Senior High School



# Year 7-12 Specialist Program **Engineering**





# Newton Moore Senior High School's Year 7-12 Specialist Program

# Engineering

Engineering Specialist Program is for high achieving students with outstanding talents and passion for engineering, while providing a strong foundation for Senior School Engineering, Science and Mathematics courses. The program provides accelerated students the opportunity for extending learning, real-world skills and a head start in engineering careers.

Students develop individual excellence and collaborative skills by participating in projects, competitions and model building, including CSIRO Crest awards, Engineer Challenge, First Robotic Challenge Subs in Schools and F1 car production in Schools. To enrich the program Newton Moore SHS established links with industry professionals and organizations to provide resources and mentoring to students.

Newton Moore SHS received the prestigious inaugural Governor's School STEM Award which recognized that our school demonstrates excellence in leadership, advocacy, engagement and achievements in Science, Technology, Engineering and Mathematics (STEM) education.

## THE PROGRAM

In Years 7, 8, 9 and 10 students participate in a curriculum focusing on the engineering fields such as Chemical, Mechanical, Electrical and Electronics, Civil and Architectural, Robotic and Environmental. The essential curriculum is covered at an accelerated rate to meet the needs of talented students.

Students complete two additional classes of Engineering, covering Picaxe

electronics, programming, solar cars, CAD programming, robotic engineering, materials and structures. Students also develop practical workshop skills using for 3-D Printers, CNC routers, laser cutters and engravers.

In Senior School of the program builds on the skills learnt in lower school program, while preparing students for ATAR and VET pathways. For university bound students, Newton Moore SHS offers ATAR courses in Engineering Studies, Physics, Chemistry and all Mathematics levels.

## SELECTION PROCESS

To ensure like-minded, high achieving students are accepted into the program, prospective students are required to complete an entrance test, provide school reports and a written application. Students from outside boundaries are welcomed to apply this Approved Specialist Program throughout the school year.

Scholarships are available each year from our Industry and Community partners.

For more information about the selection process and Engineering Specialist Program, contact Newton Moore SHS on 08 9722 2400 or by email the Head of Science, Celeste Park on [celeste.park@education.wa.edu.au](mailto:celeste.park@education.wa.edu.au)







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