



Robotics

Learning robotics provides an opportunity for students to become active problem solvers and to engage in their own learning. Robotics is a fun way for students to develop 21st Century skills and we hope to provide your daughter with the time, space and purpose to tinker with robots, solve open ended problems and bring their ideas into reality. In 2017 we are offering girls the opportunity to get involved in Robotics at three different levels depending on their prior experience and interests:

- **Beginners:** The most basic program involves building and programming Lego robots with the opportunity to take part in First Lego League (FLL). This is an ideal place to start learning to code and basic mechanics – recommended for but not limited to Year 7 to 8. <http://www.firstinspires.org/robotics/fll>
- **Intermediate:** This program involves girls building robots from kits. These girls will build the robots and then program them to complete specific tasks to then take part in First Tech Challenge. These robots are more complex and so are ideal for students with some mechanical or basic coding skills. This is ideal but not limited to Year 9 to 10 students. <http://www.firstinspires.org/robotics/ftc>
- **Advanced:** For those more experienced in coding or up for a bigger challenge by building bigger, more complex robots from scratch, the First Robotics Competition (FRC) might be right up their alley. FRC Robotics requires a team approach, with many different aspects to the design and construction of the robot. This is ideal but not limited to Year 9 to 12 students. <https://firstaustralia.org/programs/first-robotics-competition/>

This activity will also be available for registration in Term 3 and 4 (Semester 2); days, times and teachers will be released at the end of Term 2.

Program Co-ordinator	Dr Kristie Spence
Teacher	Asaph Becker and Cristhina Lavratti
Term/s	Term 2
Years	Year 7 to 12
Days/Times	Mondays 3.30pm to 5.00pm Fridays 3.30pm to 5.00pm (limited places available)
Cost	\$170.00 one afternoon per week (term 2 only) \$150.00 two afternoons per week (term 2 only) (There may be an additional charge for optional entry into competitions and challenges)
Minimum/Maximum	Min: 12 students Max: 30 students
Program Dates (Start/End) Monday	Term 2: Monday 1 May to Monday 19 June



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Program Dates (Start/End) Friday	Term 2: Friday 5 May to Friday 23 June
Venues	TAS Building Bottom Floor
Equipment	Students must be in full school uniform and wear closed shoes at all times.
Further Information	There will be options to enter competitions such as First Lego League (FLL), First Tech Challenge (FTC) and First Robotics Competition (FRC).

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