

STEM

Level: 10

Learning Area: STEM

Australian Curriculum: Links where possible with Science, Technology and Math's.

Duration: Semester

Who is this course for?

This course is for students who have a keen desire to put theory into practice using innovative technology. The subject involves using science, technology, engineering & maths as the focus for student inquiry. Students work in a collaborative manner that is heavily based on their ability to think critically to solve problems or complete challenges.

What will I learn?

You will:

- Work in a collaborative manner to solve problems or challenges
- Use the engineering design cycle to develop solutions
- Prototype and test materials, components and assemblies
- Use innovative technology including 3D printers, laser cutter and CAD software.
- Evaluate and present outcomes or solutions

Possible Topics

- Biotechnology
- Robotics
- Systems Control
- Sustainability/ Renewable Energy
- Engineering/Infrastructure
- Challenge based tasks using drones, rovers or CO₂ dragsters