**Engineering Enrichment Programs**

CRTHS offers Engineering classes and activities for students in all years, including elective Engineering in Year 9 and 10 and Engineering Studies in Years 11 and 12.

In 2014, our students have worked with Engineering students and staff from:

- University of Wollongong
- University of New South Wales
- Charles Sturt University
- Newcastle University
- Macquarie University

Not only does this benefit future engineers at CRTHS, but also helps develop skills in all the **STEM** areas of Science, Technology, Engineering and Mathematics.

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**Metals and Engineering Trade Training Centre**

This facility is the *only one in Orange* and is for students who wish to work in the manufacturing, engineering and related service industries (Welding, Fitting and Turning etc).

The course it delivers is based on units of competency developed by the manufacturing, engineering and related service industries to describe the competencies and skills and knowledge needed by workers in these industries.

Students will develop skills in the use of hand tools, power tools, oxy-acetylene and welding equipment while working on metal projects.

Competencies achieved while studying this course can contribute to an apprenticeship in the Metals Industry.
In Industrial Arts, we offer some unique opportunities that cater for the needs of our students in the field of Technology:

1. **Design and Technology**
2. **3D Printing and Laser Cutting**
3. **Trade Training Centre**
4. **Engineering Enrichment Programs**

**Design and Technology**

Students study design processes, design theory and factors in relation to design projects, culminating in a student-designed Major Design Project (MDP).

In the HSC course, CRTHS has a strong history of strong results in the HSC. Recently, Mark Bersoloto (architecture) and Eli Cameron (short film) both achieved Band 6 results, University of Wollongong DesignTECH prizes, and DesighTECH nominations. Mark’s work was displayed at the Powerhouse Museum as part of DesignTECH.

**3D Printing and Laser Cutting**

To complement our strong delivery of traditional wood and metal working skills, we have a range of computer-aided technology, including 3D printing and one of the only Laser Cutters in Central West schools. Students use Computer Aided Design (CAD) software like Sketchup to design components of their projects from Years 7 to 12.

**Trade Training Centre**

This Centre includes a range of courses offered by the Central West Institute of TAFE, providing students with the opportunity to gain accreditation and work experience.

**Engineering Enrichment Programs**

Our students in the field of Technology have unique opportunities that cater for the needs of the Central West region, with our Engineering Enrichment Programs providing pathways to further education and employment.

**Industrial Arts Staff**

Number: These subjects all require enclosed leather footwear.

- **Mrs Jen Shepherd**
- **Mr Peter Finlay**
- **Mr Andrew Hetherington**
- **Mr Malcolm Kay**
- **Mr Lyndon Marriott**
- **Mr Mark Scott (Head Teacher)**

**Industrial Arts at CRTHS**

Canobolas Rural Technology High School