

## Software Design and Development

**“Everyone should learn how to code, it teaches you how to think” Steve Jobs.**

Those that understand the computer industry are some of the most highly sought after employees on the job market today. From Google to the Commonwealth Bank to Major Marketing Agencies, the ability to code can give you a competitive advantage in the job market. Cyber security is one sector that has exploded with the increased use of technology and the connectedness of the human race. The Federal government is constantly seeking people to aid in the cyber defence of Australia.

Post school destinations include universities, traineeships, and TAFE training depending on where you want to go. The type of work that is available is as varied as drone development through to gaming and beyond.

In Software Design and Development students learn to apply a systematic approach to creative problem solving. Students are given time to research and code independently for their projects during class time. They also learn team and communication skills. This is a practical subject with a major focus on coding and creating projects that culminate in a major project in Year 12. This project is driven by your own creativity and ideas and can explore an area of interest in the field.

There is no prerequisite study for the Preliminary Course. The subject provides students with a systematic approach to problem solving with an opportunity to be creative in their larger programming tasks. Subjects that work well with SDD include Industrial Technology, Business Studies, Geography, Mathematics, Science and other TAS subjects. So SDD works well in a collection of subjects that can create for you a competitive advantage in the employment market where you can match your areas of interest with soft skills required by industry today, and most importantly in the future.

The Preliminary Course looks in detail at the Software Development Cycle. The HSC Course focuses on the Development and Impact of Software Solutions and the practical elements of developing a software product amongst other areas of study.

Python is our preferred choice of coding software. This is freely available to students, and they will be required to install it on their personal devices in order to practice the language syntax and to complete practical tasks.

For more information on Software Design and Development visit the NESA website at:

<https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/technologies/software-design-development>