

Software Design and Development

The following contains a description of the course we offer to students at St Marys Senior High. It is intended as a guide to help you select your subjects and you should read it carefully.

Please note:

- The details given represent the way that the course is delivered at St Marys Senior High and may involve different choices from the way other schools might operate the same course.
- Classes can only be formed where sufficient students select the particular course. The fact that a course is listed here is not a commitment to run the course in a particular year.
- The arrangements for particular courses are subject to change for a variety of reasons.

Software Design and Development - Course Details

Units	Type	ATAR	Faculty Teaching This Course
2	Board Developed Course – Examinable at the HSC, marks can be used to count towards an ATAR	A – Counts towards an ATAR with no restrictions	Computing Studies

The Software Design and Development (SDD) course provides students with a systematic approach to problem-solving, an opportunity to be creative, excellent career prospects and interesting content. Software development is a distinctive field within the computing discipline. Stage 6 students who wish to move into this field are at an advantage if they understand the field.

What will I be doing in this course?

Through this course, students will gain a good working knowledge and understanding of:

- How software solutions utilise and interact with other elements of computer systems
- The historical developments that have led to current practices in software design and development and of emerging trends and technologies in this field
- Legal, social and ethical issues and their effect on software design and development
- Skills in designing and developing software solutions
- Skills in management appropriate to the design and development of software solutions
- Skills in teamwork and communication associated with the design and development of software solutions.

What should I be able to do at the end of this course?

On successful completion of this course, students will be able to:

- Design, build, check and modify software solutions using industry standard tools and methods
- Effectively find, evaluate and use web-based resources needed for professional development as a software engineer
- Be aware of all the relevant issues affecting software engineers.

How will this course help me in the future?

Computing is an area of rapid growth and change. While a variety of computer applications are used in this subject, they are not the primary focus. The focus of this subject is the development of computer-based solutions that require the design of computer software. Students interested in the fields of software development and computer science will find this subject of value. The subject is not only for those who seek further study or careers in this field, but also for those who wish to understand the underlying principles of software design and development. The SDD course is an excellent introduction to tertiary level studies both at TAFE and University level.

The knowledge and skills you develop studying this course is transportable across a variety of jobs, sectors and study disciplines at TAFE and University. In addition, for students planning to enter the workforce immediately after Year 12, the SDD course would be valuable to students who wish to seek employment as a junior computer programmer, and office assistant or similar role at a junior level and a computer sales person.