Software is everywhere. It does everything from dispensing medicine to controlling flight paths to monitoring and shaping our shopping habits. Our world’s major companies, governments and organisations depend on smartly designed and well-built software. And they rely on the expertise of skilled software engineers to make it happen.

As a software engineer, you will apply engineering principles to systematically analyse, develop and improve software to ensure it runs effectively, safely and securely.

Specialise in software engineering from second year and graduate with a Bachelor of Software Engineering (Honours). This project-rich specialisation is designed to address industry demand for tech-savvy graduates with large-scale software systems project capability.

You will acquire high-level programming expertise, but software engineering goes well beyond writing code. Most modern IT systems are so complicated that teams must work together to create them. This specialisation’s emphasis on collaborative studio-based learning will give you strong skills in teamwork, project management and communication.

You will have a huge choice of IT electives including Cybersecurity, Games development, and Business information systems.

(Software Engineering is also available as a minor in the Bachelor of Computer Science and Bachelor of Information Technology)

HAYDEN RAZZELL
SOFTWARE ENGINEERING STUDENT

“I’ve always had an affinity to technology and problem solving. In software engineering we learn everything from coding, algorithm design, teamwork, design strategies, maths, and project management.

I participated in the Monash Undergraduate Research Projects Abroad (MURPA) program, for which I spent two months at the University of California, San Diego. The trip was fully funded by Monash and it was a great opportunity to work with cutting-edge technology and travel around California at the same time.”
INDUSTRY BASED LEARNING (IBL) PROGRAM
In the Bachelor of Software Engineering (Honours) you can do one or two half-year placements with our industry partners which count towards your course, and are supported by a $17,000 scholarship per placement.

For more information on IBL go to it.monash.edu/ibl

DOUBLE DEGREES AVAILABLE WITH:
• Arts
• Commerce
• Commerce Specialist
• Computer Science
• Information Technology
• Science

YOUR STUDY WILL INCLUDE:
• Algorithms and data structures
• Introduction to computer science for engineers
• Object-oriented design and implementation
• Operating systems
• Software engineering process and management
• Software quality and testing
• Software engineering: Architecture and design
• Computer architecture
• Software engineering practice
• Databases
• Software engineering industry experience studio project or Industry-based learning
• Software engineering research project
• Computer networks
• Discrete mathematics for computer science.

COURSE DETAILS
Location: Clayton
ATAR: 88+
IB Score: 32+
Duration: 4 years
Structure: Specialist

DEGREE AWARDED
BACHELOR OF SOFTWARE ENGINEERING (HONOURS)

VCE PREREQUISITES

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INTERNATIONAL BACCALAUREATE PREREQUISITES

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FOR MORE INFORMATION
Phone: +61 3 9902 6011
Email: future@monash.edu
Web: study.monash

DID YOU KNOW?
TO DATE, 100% OF OUR IBL STUDENTS WHO SEEK EMPLOYMENT HAVE RECEIVED GRADUATE JOB OFFERS.