

**NEW COURSE:**  
**BACHELOR OF ENGINEERING**  
**(HONOURS) SOFTWARE**  
**DIPLOMA OF PROFESSIONAL**  
**ENGINEERING PRACTICE**

**DR TOM MCBRIDE**  
**SENIOR LECTURER,**  
**SCHOOL OF SOFTWARE**

## KEY INFO

- > **ATAR: 85**
- > Allows students to learn how to design and develop large, complex, critical software systems that are safe, reliable and useful
- > **Careers:** Software Engineer
- > **Salary expectations:** \$60,000 - \$70,000 for junior software engineer

## **WHY HAS THIS COURSE BEEN INTRODUCED?**

- > Our future society will depend on innovative, large, complex, critical software systems that are safe, reliable and useful
- > There are few people who can design, develop, deploy or support these systems



# EXAMPLE COURSE STRUCTURE

5 years full time

ATAR: 85

	SESSION 1	SESSION 2
<b>Year 1</b>	Math Modelling 1. Engineering Communications. Applications Programming. Business requirements modelling.	Math Modelling 2. Sensing, Actuation and Control. System testing and quality management. Database fundamentals.
<b>Year 2</b>	Physical modelling. Data structures and algorithms. Elective. Software Engineering Studio 1A. Professional Practice Preparation	Professional Experience 1  Work Integrated Learning 1
<b>Year 3</b>	Engineering Economics and Finance SE Technical Elective Information system development methodologies Software Engineering Studio 1B	Engineering Project management SE Technical Elective Software architecture Software Engineering Studio 2A
<b>Year 4</b>	Design and Innovation fundamentals SE Technical Elective Elective Software Engineering Studio 2B	Professional Experience 2  Work Integrated Learning 2
<b>Year 5</b>	Entrepreneurship and commercialisation SE Technical Elective Research methods Software Engineering Studio 3A	Elective Elective Capstone Project Software Engineering Studio 3B

# WHY STUDY THE BACHELOR OF ENGINEERING SOFTWARE MAJOR?

- > It's a world class degree
  - Meets the requirements of the Seoul Accord for Software Engineers
  - Meets Engineers Australia requirements
  - Meets Australian Computer Society requirements
- > Designed to meet future industry needs
- > Intended to be the best software engineering course in this world region