

# 62550 Master of Professional Engineering Software Engineering (SP-ESOFT)

## 2 Year Course Study Plan – Commencing Semester 2, 2021

The Level 1, 2 and 3 prerequisites listed below apply to students undertaking preparatory units in the 2 – 3 year MPE.  
Students enrolling in the 2-year MPE with 48 points block credit have already satisfied the Level 1, 2 and 3 prerequisites.  
Level 4 and 5 prerequisites apply to all students.

Year 1				
Semester 2, 2021	OPTION	OPTION	<b>GENG5505*</b> Project Management and Engineering Practice <i>Prereq: ENSC1001 or ENSC1003</i>	OPTION
<b>It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio</b>				
Semester 1, 2022	<b>CITS5551</b> Software Engineering Design Project 1 <i>Prereq: 24 points of L4/L5 units</i>	<b>CITS4401</b> Software Requirements and Design	OPTION	<b>GENG5507*</b> Risk, Reliability and Safety <i>Prereq: MATH1011 and MATH1012</i>
Year 2				
Semester 2, 2022	<b>CITS5552</b> Software Engineering Design Project 2 <i>Prereq: CITS5551</i>	<b>CITS5503</b> Cloud Computing <i>Prereq: 12 points of programming-based units*</i>	<b>CIT5507</b> High Performance Computing <i>Prereq: 12 points of programming-based units*</i>	<b>GENG5511*</b> Engineering Research Project Part 1 <i>Prereq: 24 points of L4/L5 units</i>
<b>It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio</b>				
Semester 1, 2023	OPTION	<b>CITS5501</b> Software Testing and Quality Assurance <i>Prereq: 12 points of programming-based units*</i>	OPTION	<b>GENG5512*</b> Engineering Research Project Part 2 <i>Prereq: GENG5511</i>

\* unit is available in Semester 1 and Semester 2; \* programming-based units are: CITS1001 Software Engineering with Java; CITS1401 Computational Thinking with Python; CITS2002 Systems Programming and CITS2200 Data Structures and Algorithms; CITS2401 Computer Analysis and Visualisation; CITS2402 Introduction to Data Science; CITS4009 Computational Data Analysis or equivalent.

### Optional Units: Students take units to the value of 36 points from this group:

<b>BUSN5100</b> Applied Professional Business Communications (S1, S2)	<b>CITS5508</b> Machine Learning (S1) <i>Prereq: 12 points of programming-based units*</i>
<b>CITS4009</b> Computational Data Analysis (S2)	<b>ELEC4406</b> Digital System Design (S2) <i>Prereq: ENSC3020</i>
<b>CITS4402</b> Computer Vision (S1) <i>Prereq: CITS2401 and MATH1012 (Note: Students must have the ability to program in a high-level programming language and the ability to reason in linear algebra and calculus.)</i>	<b>GENG4402</b> Control Engineering (S2) <i>Prereq: MATH1001 and ENSC2001</i>
<b>CITS4403</b> Computational Modelling (S1)	<b>GENG4405</b> Numerical Methods and Modelling (S2)

# 62550 Master of Professional Engineering Software Engineering (SP-ESOFT)

## 2 Year Course Study Plan – Commencing Semester 2, 2021

<i>Prereq: 6 points of programming-based units</i>	<i>Prereq: CITS2401</i>
<b>CITS4404 Artificial Intelligence and Adaptive Systems (S2)</b> <i>Prereq: 12 points of programming-based units</i>	<b>GENG5508 Robotics (S1)</b> <i>Prereq: CITS1001 or CITS1401 or CIST2002 or CITS2401</i>
<b>CITS4419 Mobile and Wireless Computing (S2)</b> <i>Prereq: CITS1001 and CITS2002 and CITS3002</i>	<b>SVLG5003 Wicked Problems (NSTP)</b> <i>Note: Enrolment in this unit is subject to approval by the unit coordinators.</i>

The Rules for the 62550 Master of Professional Engineering can be found at: [handbooks.uwa.edu.au/rules-62550-MPE](http://handbooks.uwa.edu.au/rules-62550-MPE)

All units have a value of six points unless otherwise stated.

Information about unit availability should be checked at the beginning of each semester and can be found at: [timetable.uwa.edu.au](http://timetable.uwa.edu.au) or [Handbooks](#).

### Further Help!

Refer to the UniStart website for your step-by-step guide on planning your enrolment: [uwa.edu.au/unistart](http://uwa.edu.au/unistart). If you need to discuss your study plan further, please contact the EMS Student Service and Engagement Office: [enquiries-ems@uwa.edu.au](mailto:enquiries-ems@uwa.edu.au)