

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

2 Year Course Study Plan – Commencing Semester 1, 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 1, 2021	CITS4401 Software Requirements and Design	GENG5505* Project Management and Engineering Practice <i>Prereq: ENSC1001 or ENSC1003</i>	OPTION	OPTION
Semester 2, 2021	GENG5507* Risk, Reliability and Safety <i>Prereq: MATH1011 and MATH1012</i>	OPTION	OPTION	OPTION
It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio				
Year 2				
Semester 1, 2022	CITS5501 Software Testing and Quality Assurance <i>Prereq: 12 points of programming-based units*</i>	CITS5551 Software Engineering Design Project 1 <i>Prereq: 24 points of L4/L5 units</i>	GENG5511* Engineering Research Project Part 1 <i>Prereq: 24 points of L4/L5 units</i>	OPTION
Semester 2, 2022	CITS5507 High Performance Computing <i>Prereq: 12 points of programming-based units*</i>	CITS5503 Cloud Computing <i>Prereq: 12 points of programming-based units*</i>	CITS5552 Software Engineering Design Project 2 <i>Prereq: CITS5551</i>	GENG5512* Engineering Research Project Part 2 <i>Prereq: GENG5511</i>
It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio				

* 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:	
BUSN5100 Applied Professional Business Communications (S1, S2)	CITS5508 Machine Learning (S1) <i>Prereq: 12 points of programming-based units*</i>
CITS4009 Computational Data Analysis (S2)	ELEC4406 Digital System Design (S2) <i>Prereq: ENSC3020</i>
CITS4402 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>	GENG4402 Control Engineering (S2) <i>Prereq: MATH1001 and ENSC2001</i>
CITS4403 Computational Modelling (S1)	GENG4405 Numerical Methods and Modelling (S2)

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<i>Prereq: 6 points of programming-based units*</i>	<i>Prereq: CITS2401</i>
CITS4404 Artificial Intelligence and Adaptive Systems (S2) <i>Prereq: 12 points of programming-based units*</i>	GENG5508 Robotics (S1) <i>Prereq: CITS1001 or CITS1401 or CIST2002 or CITS2401</i>
CITS4419 Mobile and Wireless Computing (S2) <i>Prereq: CITS1001 and CITS2002 and CITS3002</i>	SVLG5003 Wicked Problems (NSTP) <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

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 or [Handbooks](#).

Further Help!

Refer to the UniStart website for your step-by-step guide on planning your enrolment: 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