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	**OPTION**	**GENG5505*** Project Management and Engineering Practice *Prereq: ENSC1001 or ENSC1003*	**OPTION**
Semester 2, 2021	**CITS5551** Software Engineering Design Project 1 *Prereq: 24 points of L4/L5 units*	**OPTION**	**GENG5507*** Risk, Reliability and Safety *Prereq: MATH1011 and MATH1012*	**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	**CITS5552** Software Engineering Design Project 2 *Prereq: CITS5551*	**CITS5501** Software Testing and Quality Assurance *Prereq: 12 points of programming-based units•*	**OPTION**	**GENG5511*** Engineering Research Project Part 1 *Prereq: 24 points of L4/L5 units*
Semester 2, 2022	**CIT5507** High Performance Computing *Prereq: 12 points of programming-based units•*	**CITS5503** Cloud Computing *Prereq: 12 points of programming-based units•*	**OPTION**	**GENG5512*** Engineering Research Project Part 2 *Prereq: GENG5511*
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) *Prereq: 12 points of programming-based units•*
CITS4009 Computational Data Analysis (S2)	**ELEC4406** Digital System Design (S2) *Prereq: ENSC3020*
CITS4402 Computer Vision (S1) *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.)*	**GENG4402** Control Engineering (S2) *Prereq: MATH1001 and ENSC2001*
CITS4403 Computational Modelling (S1)	**GENG4405** Numerical Methods and Modelling (S2)

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

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**