# 2 Year Course Study Plan – Commencing Semester 1

Level 4 and 5 prerequisites apply to all students.

The Level 1, 2 and 3 prerequisites listed below apply to students undertaking preparatory units in the 2 – 3 year MPE. You must complete any undergraduate pathway units in the first 48 points of the MPE.

Students enrolling in the 2-year MPE with 48 points block credit or relevant Engineering Science pathway have already satisfied the Level 1, 2 and 3 prerequisites.

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| **Year 1** | | | | |
| *It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio* | | | | |
| Semester 1 | CIVL4401  Applied Geomechanics  Prereq: ENSC3009 Geomechanics | CIVL4402  Fluid Mechanics for Civil Engineers  Prereq: ENSC3010 Hydraulics | CIVL4404  Structural Steel  Prereq: ENSC3004 Solid Mechanics | OPTION |
| Semester 2 | CIVIL4403  Structural Concrete  Prereq: ENSC3004 Solid Mechanics | OPTION | GENG4405  Numerical Methods and Modelling  Prereq: unit on programming | GENG5505  Project Management and Engineering Practice |
| *It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio* | | | | |
| **Year 2** | | | | |
| Semester 1 | GENG5514  Finite Element Method  Prereq: GENG4405  & ENSC3004 Solid Mechanics  & ENSC3010 Hydraulics | CIVL5551  Engineering Surveying and Design  Coreq: GENG5505  & ENSC3010 Hydraulics  & ENSC3009 Geomechanics | OPTION | GENG5511  Engineering Research Project Part 1  Prereq: 24 points of L4/L5 units |
| Semester 2 | OPTION | CIVL5552  Civil Structural Design Project  Prereq: CIVL4404. Coreq: GENG5505 | GENG5507  Risk, Reliability and Safety | GENG5512  Engineering Research Project Part 2  Prereq: GENG5511  [taken in semester after GENG5511] |
| *Students must complete all credit bearing units and GENG5010 Professional Engineering Portfolio to be eligible to graduate* | | | | |

*unit is available in Semester 1 and Semester 2;* N/A = unit not available for 2024*;* NS = unit is delivered during a non-standard teaching period

Refer to Table of Options overleaf

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| **Optional Units: Students take units to the value of 24 points from this group:** | |
| CIVL5501 Structural Dynamics (S2)  Prereq: ENSC3004 Solid Mechanics | ENVE4402 Engineering Hydrology (S1) |
| CIVL4430 Transportation and Pavement Engineering (S2)  Prereq: unit on programming | ENVE5502 Water and Wastewater Engineering (S2) |
| CIVL5503 Underground Construction (NSTP)  Prereq: CIVL4401 | GENG5501 Coastal and Offshore Engineering (S1)  Prereq: ENSC3010 Hydraulics |
| CIVL5504 Offshore Geomechanics (N/A)  Prereq: CIVL4401 | GENG5502 Environmental Geotechnics (S2)  Prereq: ENSC3009 Geomechanics |
| CIVL5505 Design of Offshore Energy Facilities (S2)  Prereq: ENSC3004 Solid Mechanics | SVLG5003 Wicked Problems (N/A)  Note: Enrolment in this unit is subject to approval by the unit coordinators. |
| CIVL5550 Civil Infrastructure Design Project (N/A)  Prereq: CIVL4430 | BUSN5100 Applied Professional Business Communications (S1, S2)  Note: only to be taken in first 48 points |

*unit is available in Semester 1 and Semester 2;* N/A = unit not available for 2024*;* NS = unit is delivered during a non-standard teaching period

The Rules for the 62550 Master of Professional Engineering can be found at: <https://handbooks.uwa.edu.au/coursedetails?code=62550#rules>

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://www.timetable.uwa.edu.au/) or [Handbooks.](https://handbooks.uwa.edu.au/)

Further Help!

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