# 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 | CIVL4401Applied GeomechanicsPrereq: ENSC3009 Geomechanics | CIVL4402Fluid Mechanics for Civil EngineersPrereq: ENSC3010 Hydraulics | CIVL4404Structural SteelPrereq: ENSC3004 Solid Mechanics | OPTION |
| Semester 2 | CIVIL4403Structural ConcretePrereq: ENSC3004 Solid Mechanics | OPTION | GENG4405Numerical Methods and ModellingPrereq: 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 | GENG5514Finite Element MethodPrereq: GENG4405 & ENSC3004 Solid Mechanics & ENSC3010 Hydraulics | CIVL5551Engineering Surveying and DesignCoreq: GENG5505 & ENSC3010 Hydraulics & ENSC3009 Geomechanics | OPTION | GENG5511Engineering Research Project Part 1Prereq: 24 points of L4/L5 units |
| Semester 2 | OPTION | CIVL5552Civil Structural Design ProjectPrereq: CIVL4404. Coreq: GENG5505 | GENG5507Risk, Reliability and Safety | GENG5512Engineering Research Project Part 2Prereq: 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.