# 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 | ENVE4402  Engineering Hydrology | ENVE4403  Fluid Transport, Mixing and Dispersion  Prereq: ENSC3010 Hydraulics | ENVE4405  Ecological Engineering and Nature-based Solutions | GENG5505****  Project Management and Engineering Practice |
| Semester 2 | ENVE4401  Contaminant Fate and Transport Prereq: ENSC3010 Hydraulics | ENVE5551  Environmental Engineering Design Solutions 1  *Prereq: 24 points L4/L5 units* | GENG4405  Numerical Methods and Modelling  Prereq: unit on programming | ENVT4411  Geographic Information Systems Applications |
| *It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio* | | | | |
| **Year 2** | | | | |
| Semester 1 | GENG5507****  Risk, Reliability and Safety | ENVE5552  Environmental Engineering Design Solutions 2  *Prereq: ENVE5551* | OPTION | GENG5511****  Engineering Research Project Part 1  *Prereq: 24 points of L4/L5 units* |
| Semester 2 | OPTION | ENVT5566  Advanced Spatial and Environmental Modelling  Prereq: ENVT4411 | OPTION | 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 18 points from this group including at least one level 5 unit:** | |
| ECON4410 Environmental and Resource Economics (S1)  *Advisable prior study: ECON3300 or ECON4001* | OCEN4002 Ocean Hazards (N/A) |
| ENVE5502 Wastewater Engineering: Treatment and Resource Recovery (S2) | OCEN4007 Renewable Ocean Energy (S2)  Prereq: ENSC3010 Hydraulics |
| GENG5501 Coastal and Offshore Engineering (S1)  Prereq: ENSC3010 Hydraulics | GENG5506 Renewable Energy (S2)  Prereq: ENSC2003 Electrical Engineering Fundamentals |
| GENG5502 Environmental Geotechnics (S2)  Prereq: ENSC3009 Geomechanics | SVLG5003 Wicked Problems (N/A)  Note: Enrolment in this unit is subject to approval by the unit coordinators. |
| MINE4406 Geotechnology of Mine Waste (NS)  Prereq: ENSC3009 Geomechanics | 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.