# 2 Year Course Study Plan – Commencing Semester 2

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** | | | | |
| Semester 2 | MINE4404  Rock Mechanics  Prereq: ENSC3004 Solid Mechanics  & ENSC3009 Geomechanics | GENG5505  Project Management and Engineering Practice | GENG5507  Risk, Reliability and Safety | **RECOMMENDED GROUP B OPTION**  CITS4009  Computational Data Analysis |
| *It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio* | | | | |
| Semester 1 | MINE4401  Underground Mining 1  Prereq: ENSC3011 Fundamentals of Mining Engineering | MINE4405  Mineral Resources  Prereq: ENSC3011 Fundamentals of Mining Engineering | MINE4503  Surface Mining  Prereq: ENSC3011 Fundamentals of Mining Engineering | **RECOMMENDED GROUP B OPTION**  GENG4403  Extractive Metallurgy  Prereq: ENSC1004 Engineering Materials |
| **Year 2** | | | | |
| Semester 2 | GENG5511  Engineering Research Project Part 1  Prereq: 24 points of L4/L5 units | MINE4406 (NS)  Geotechnology of Mine Waste  Prereq:  ENSC3011 Fundamentals of Mining Engineering  & ENSC3009 Geomechanics | MINE5502  Underground Mining 2  Prereq: MINE4401 | **RECOMMENDED GROUP A OPTION**  MINE5551  Mining Engineering Design Project 1  Prereq: MINE4503 and MINE4405 |
| *It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio* | | | | |
| Semester 1 | GENG5512  Engineering Research Project Part 2  Prereq: GENG5511  [taken in semester after GENG5511] | GROUP B OPTION | MINE5501  Mining Management  Prereq: MINE4503 and MINE4401 | MINE5552  Mining Engineering Design Project 2  Prereq: MINE4401 and MINE5502 |
| *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.

**OPTION UNITS**

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| **GROUP A: Students take unit to the value of 6 points from this group:** | |
| MINE5551 Mining Engineering Design Project 1  Prereq: MINE4503 and MINE4405 | SVLG5003 Wicked Problems (N/A)  Enrolment in this unit is subject to approval by the unit coordinators. |

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| **GROUP B: Students take units to the value of 18 points from this group:** | |
| ACCT5432 Introductory Financial Accounting (S1, S2) | GENG4403 Extractive Metallurgy (S1)  Prereq: ENSC1004 Engineering Materials |
| CITS4009 Computational Data Analysis (S2) | GENG4405 Numerical Methods and Modelling (S2)  Prereq: unit on programming |
| CIVL4401 Applied Geomechanics (S1)  Prereq: ENSC3009 Geomechanics | GENG5506 Renewable Energy (S2)  Prereq: ENSC2003 Electrical Engineering Fundamentals |
| ECON5541 Economics for Business: Applications and Policy (S1, S2) | HRMT5504 Introduction to Human Resource Management (S1, S2) |
| EMPL5412 Employment Relations (S1) | MGMT5507 Management and Organisations (S1, S2) |
| EMPL5450 Advanced Topics in Employment Relations (S2)  Prereq: EMPL5412 | MGMT5508 Organisational Behaviour and Leadership (S2) |
| EMPL5511 Employment Relations in a Global Context (S1) | 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.