

# 62550 Master of Professional Engineering Chemical Engineering (SP-ECHEM)

## 2 Year Course Study Plan – Commencing Semester 2, 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 2, 2021	CHPR4406 Reaction Engineering <i>Prereq: ENSC3006</i>	CHPR4407# Transport Phenomena <i>Prereq: ENSC3003 and ENSC3007</i>	GENG4402 Control Engineering <i>Prereq: MATH1001 and ENSC2001</i>	OPTION
<i>It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio</i>				
Semester 1, 2022	CHPR4404 Advanced Thermodynamics <i>Prereq: ENSC3005 &amp; ENSC3006</i>	CHPR4405 Particle Mechanics and Solids Handling <i>Prereq: ENSC3003 and ENSC3005</i> <i>Coreq: ENSC3007</i>	GENG5505 ★ Project Management and Engineering Practice <i>Prereq: ENSC1001</i>	OPTION
Year 2				
Semester 2, 2022	CHPR5551## Chemical Eng. Design Project 1 <i>Prereq: CHPR4406, ENSC3018 and ENSC3019.</i> <i>Coreq: CHPR5552</i>	CHPR5552## Chemical Eng. Design Project 2 <i>Coreq: CHPR5551</i>	GENG5511 ★ Engineering Research Project Part 1 <i>Prereq: 24 points of L4/L5 units</i>	OPTION
<i>It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio</i>				
Semester 1, 2023	CHPR5501 Advanced Reaction Engineering and Catalysts <i>Prereq: CHPR4406</i>	GENG5507 ★ Risk, Reliability and Safety <i>Prereq: MATH1001 and MATH1002</i>	GENG5512 ★ Engineering Research Project Part 2 <i>Prereq: GENG5511</i>	OPTION

**KEY:** ★ = unit is available in Semester 1 and Semester 2; **N/A** = unit not available for 2021; **NS** = unit is delivered during a non-standard teaching period.

# Students are strongly advised to complete CHPR4407 before enrolling in the Design Project (due to large volume of work associated with both subjects).

## Units CHPR5551 and CHPR5552 are to be taken at the same time (same semester and year) as together they form a single overall project. They cannot be taken separately under any circumstances. They should be taken as late as sensibly possible within the course giving you as much prior knowledge as possible.

Refer to Table of Options overleaf.

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## OPTION UNITS

### GROUP A: Students take units to the value of 12 points from this group:

CHPR5520 Combustion Science and Technology (NS) <i>Prereq: CHPR4406 and ENSC3006</i>	ELEC5506 Process Instrumentation and Control (S1) <i>Prereq: (ENSC2001 and ENSC2002) or ENSC2003</i>
CHPR5521 Gas Processing 1—Flow Assurance and Gathering (S1) <i>Coreq: CHPR4404</i>	GENG5516 Energy Storage Systems (S1) <i>Prereq: ENSC3006</i>
CHPR5522 Gas Processing 2—Treating and LNG Production (S2) <i>Prereq: CHPR4404</i>	

### GROUP B: Students take units to the value of 12 points from this group:

BMEG4002 Biomaterials (S1)	GENG4410 Fossil to Future – The Transition (S1)
BMEG4003 Cardiovascular Biomechanics (S2) <i>APS: PHYL2002 or ENSC3023</i>	GENG5503 Modern Control Systems (S2) <i>Prereq: GENG4402</i>
BUSN5100 Applied Professional Business Communications (S1, S2)	GENG5504 Petroleum Engineering (S2) <i>Prereq: ENSC3003</i>
CITS4009 Computational Data Analysis (S2)	GENG5506 Renewable Energy (S2) <i>Prereq: [ENSC2002 OR (ENSC2003 &amp; ENSC2004)] and MATH1012</i>
ENVE4401 Contaminant Fate and Transport (S2) <i>Prereq: ENSC3003 and ENSC3006</i>	SVLG5003 Wicked Problems (N/A) <i>Enrolment in this unit is subject to approval by the unit coordinators.</i>
GENG4403 Extractive Metallurgy (S1)	

**KEY:** S1 = unit is available semester 1; S2 = unit is available semester 2; N/A = unit not available for 2021; NS = unit is delivered during a non-standard teaching period.

The Rules for the 62550 Master of Professional Engineering can be found at: [handbooks.uwa.edu.au/rules-62550-MPE](http://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](http://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](http://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](mailto:enquiries-ems@uwa.edu.au)