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 1 2015
- **CHPR4404** *Advanced Thermodynamics*  
  Prereq: ENSC3005 & ENSC3006
- **CHPR4406** Reaction Engineering  
  Prereq: ENSC3006
- **GENG5505**  
  Project Management and Engineering Practice  
  Prereq: ENSC1001

#### Semester 2 2015
- **ENSC3018** Process Synthesis and Design  
  Prereq: (ENSC3005 & ENSC3007) or CHPR2530
- **ENSC3019** Unit Operations and Unit Processes  
  Prereq: (ENSC3005 & ENSC3007) or CHPR2530
- **GENG4402** Control Engineering  
  Prereq: MATH1001 & ENSC2001
- **GENG4405** Numerical Methods and Modelling  
  Prereq: CITS2401 & MATH1002

### Year 2

#### Semester 1 2016
- **CHPR5501** Advanced Reaction Engineering and Catalysts  
  Prereq: CHPR4406
- **CHPR5551** Chemical Engineering Design Project 1  
  Prereq: ENSC3018 & ENSC3019  
  Coreq: CHPR4406 & GENGS505
- **OPTION**
- **OPTION**

#### Semester 2 2016
- **GENG5511** Engineering Research Project Part 1  
  Prereq: Completion of 24 points of L4/L5 units including GENGS505
- **CHPR5552** Chemical Engineering Design Project 2  
  Prereq: CHPR5551
- **CHPR4405** Particle Mechanics and Solids Handling  
  Prereq: ENSC3003 & ENSC3005  
  Coreq: ENSC3007
- **OPTION**

### Year 2.5

#### Semester 1 2017
- **GENG5512** Engineering Research Project Part 2  
  Prereq: GENGS511
- **GENG5507** Risk, Reliability and Safety  
  Prereq: MATH1001 & MATH1002
- **OPTION**
Select two units from Group A Options

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHPR4407</td>
<td>Transport Phenomena (NS Sem-2) *</td>
<td>ENSC3003 &amp; ENSC3007</td>
</tr>
<tr>
<td>CHPR5520</td>
<td>Combustion Science and Technology (NS Sem-2) *</td>
<td>ENSC3006 &amp; CHPR4406</td>
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<tr>
<td>CHPR5521</td>
<td>Gas Processing 1—Flow Assurance and Gathering (NS Sem-1) *</td>
<td>Corequisite: CHPR4404 or CHPR4531</td>
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<tr>
<td>CHPR5522</td>
<td>Gas Processing 2—Treating and LNG Production (NS Sem-2) *</td>
<td>Corequisite: CHPR4404 or CHPR4531</td>
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</table>

Select two units from Group B Options

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC5506</td>
<td>Process Instrumentation and Control (NS Sem-1) *</td>
<td>ENSC2001 &amp; ENSC2002</td>
</tr>
<tr>
<td>ENVE4401</td>
<td>Contaminant Fate and Transport (Sem-2)</td>
<td>ENSC3003 &amp; ENSC3006</td>
</tr>
<tr>
<td>GENG4403</td>
<td>Extractive Metallurgy (Sem-1)</td>
<td>None</td>
</tr>
<tr>
<td>GENG4407</td>
<td>Advanced Engineering Mathematics (Sem-1)</td>
<td>MATH1002</td>
</tr>
<tr>
<td>GENG5503</td>
<td>Modern Control Systems (Sem-1)</td>
<td>GENG4402</td>
</tr>
<tr>
<td>GENG5504</td>
<td>Petroleum Engineering (Sem-2)</td>
<td>ENSC1002, MATH1002 &amp; ENSC3003</td>
</tr>
<tr>
<td>GENG5506</td>
<td>Renewable Energy (NA in 2015)</td>
<td>MATH1002 &amp; ENSC2002</td>
</tr>
</tbody>
</table>

*This unit is offered in a non-standard teaching period – check online unit description and timetable website for more information.

NOTE: Students are required to complete at least 12 weeks’ practical experience in an engineering environment as approved by the Faculty. For more information, see: [http://www.ecm.uwa.edu.au/students/professional-practicum](http://www.ecm.uwa.edu.au/students/professional-practicum). It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5000 Professional Practicum requirement.

It has been determined, based on your previous studies, that you are exempt from the following preparatory units:

- ENSC1001 Global Challenges in Engineering;
- ENSC1002 Material Behaviour from Atoms to Bridges;
- ENSC2001 Motion;
- ENSC2002 Energy;
- MATH1001 Mathematical Methods 1;
- MATH1002 Mathematical Methods 2;
- CHEM1002 Chemistry – Structure & Reactivity;
- CITS2401 Computer Analysis & Visualisation;
- ENSC3003 Fluid Mechanics;
- ENSC3005 Mass & Energy Balances;
- ENSC3006 Chemical Process Thermodynamics & Kinetics;
- ENSC3007 Heat & Mass Transfer.

If you need to discuss your study plan further, please contact the ECM Student Office at [enquiries-ecm@uwa.edu.au](mailto:enquiries-ecm@uwa.edu.au).

Information in this study guide is correct as at 29 January 2015, but is subject to change from time to time. In particular, the University reserves the right to change the unit availability and unit rules. Information about unit availability should be checked at the beginning of each semester and can be found at Timetables: [http://www.timetable.uwa.edu.au/](http://www.timetable.uwa.edu.au/), Handbooks: [http://handbooks.uwa.edu.au/](http://handbooks.uwa.edu.au/) or Study Guides: [http://www.ecm.uwa.edu.au/students/study-guides](http://www.ecm.uwa.edu.au/students/study-guides). The Rules for the MPE can be found at [http://courses.handbooks.uwa.edu.au/courses/c6/62550](http://courses.handbooks.uwa.edu.au/courses/c6/62550).