Course progression map for 2019 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It should be used in conjunction with the requirements of the course as specified in the Handbook. This map is subject to updates. Update version: 19 May 2022

E3008 Bachelor of Engineering (Honours) and Bachelor of Pharmaceutical Science

Engineering specialisation – Chemical engineering
Pharmaceutical science specialisation - Formulation science

<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEMESTER 1</th>
<th>SEMESTER 2</th>
<th>SEMESTER 3</th>
<th>SEMESTER 4</th>
<th>SEMESTER 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BPS1011 Human physiology I. Cells to systems</td>
<td>BPS1021 Medical chemistry I: Structure</td>
<td>BPS1031 Physical chemistry I: Equilibria and change</td>
<td>BPS1041 Scientific inquiry</td>
<td>ENG0001 Continuous Professional Development (0 credit points)</td>
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<tr>
<td>2</td>
<td>ENG1001 Engineering Design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineered mobile applications or ENG1005</td>
<td>CHE2163 Heat and mass transfer</td>
<td>CHE2164 Material and energy balances</td>
<td>CHE2164 Reaction engineering</td>
</tr>
<tr>
<td>3</td>
<td>BPS2031 Analytical methods I: Principles and applications</td>
<td>BPS2041 Drug delivery and Pharmacoekinetics</td>
<td>BPS3311 Industrial formulation</td>
<td>BPS3331 Pharmaceutical product development and manufacture</td>
<td>BPS3332 Applied pharmacoekinetics and pharmacodynamics</td>
</tr>
<tr>
<td>4</td>
<td>CHE3166 Process design</td>
<td>CHE3165 Separation processes</td>
<td>CHE3162 Process control</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td></td>
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<tr>
<td>5</td>
<td>CHE4164 Integrated industrial project (18 points)</td>
<td>FOR SELECTED STUDENTS TAKING A PERIOD OF INTEGRATED INDUSTRIAL TRAINING IN THEIR FINAL YEAR CHE4164 (18 CP) WILL BE REPLACED BY CHE4164 (6 CP) AND CHE4165 (6 CP) FROM 2022. YOU MUST NOW ALSO COMPLETE CHE4161. SEE FOOTNOTE.</td>
<td>CHE4171 Biochemical engineering</td>
<td>CHE3167 Transport phenomena and numerical methods</td>
<td>CHE2164 Reaction engineering</td>
</tr>
</tbody>
</table>

6CP CORE – LEVEL 3, 4 OR 5 CHEMICAL ENGINEERING UNIT

Due to overlapping contents with BPS301/BPS1032, CHE2166 or CHE4171 was to be completed in place of CHM1011/CHM1051. From 2022, you replace with a unit selected from below:

- CHE3172 Nanotechnology and materials 1
- CHE332 Advanced biochemical engineering
- CHE282 Biomass and biorefineries
- CHE383 Nanomaterials and energy production
- CHE288 Food engineering and processing

Note:
- From 2021, ENG4701 and ENG4702 will replace the 12 credit points CHE4180, therefore extending the final year project over two semesters. Please seek course advice if needed.
- CHE4180 introduces a blended learning course, students must now also complete CHE4161. See footnote.
- Depending on placement location, you may have to overload a semester or extend an additional semester in order to complete your course.
- CHE4170 - You should not overload in the semester when undertaking this unit.
- All students are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the CPD webpage.

For enrolment advice, please refer to the Course advisers webpage.

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