Bachelor of Pharmaceutical Science Advanced (Honours) 3469, P3002  
Medicinal Chemistry major Course Map - students enrolled from 2015

<table>
<thead>
<tr>
<th>First year</th>
<th>8 core units</th>
</tr>
</thead>
</table>
| **SEM 1** | **PSC1011**  
Physiology I | **PSC1021**  
Bioorganic and medicinal chemistry I | **PSC1031**  
Physical chemistry I | **PSC1041**  
Scientific Inquiry |
| **SEM 2** | **PSC1012**  
Physiology II | **PSC1022**  
Bioorganic and medicinal chemistry II | **PSC1032**  
Physical chemistry II | **PSC1042**  
Multi-disciplinary pharmaceutical science |

<table>
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<tr>
<th>Second year</th>
<th>5 core units, 3 specialist units</th>
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</table>
| **SEM 1** | **PSC2011**  
Biochemical Pharmacology  
PSC1011, PSC1022 | **PSC2021**  
Structural organic chemistry  
PSC1021, PSC1022 | **PSC2031**  
Analytical methods  
PSC1031, PSC1032 | **PSC2041**  
Biopharmaceutics  
PSC1011, PSC1012 |
| **SEM 2** | **PSC2012**  
Molecular Pharmacology  
PSC1012 | **PSC2122**  
Synthetic organic chemistry  
PSC2021 | **PSC2132**  
Introduction to Spectroscopy  
PSC1021, PSC1022 | **PSC2142**  
Computational chemistry |

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<tr>
<th>Third year</th>
<th>1 core unit, 7 specialist units</th>
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</table>
| **SEM 1** | **PSC3111**  
Molecular basis of drug action  
PSC2011, PSC2021 | **PSC3121**  
Advanced synthetic organic chemistry  
PSC2021, PSC2122 | **PSC3131**  
Analysis of drug-receptor interactions  
PSC2132 | **PSC3041**  
Applied Analytical Methods  
PSC2031 |
| **SEM 2** | **PSC3112**  
Drug discovery & development  
No pre-reqs | **PSC3122**  
Applied medicinal chemistry  
PSC2021, PSC2122 PSC3121 | **PSC3432**  
Medicinal Chemistry pre honours research project  
(12 credit points) | **PSC3041**  
Applied Analytical Methods  
PSC2031 |

Core units are shaded. * denotes previous unit code.  
All units are 6 credit points; total credit points required: 144  
Updated September 2016.
<table>
<thead>
<tr>
<th>Fourth year</th>
<th>2 units</th>
</tr>
</thead>
</table>
| **SEM 1**   | Choose one of:  
|             | **PSC4111**  
|             | Advanced medicinal chemistry (12 points)  
|             | **PSC4211**  
|             | Advanced formulation science (12 points)  
|             | **PSC4311**  
|             | Advanced drug discovery biology (12 points)  
| **SEM 2**   | Based on the first semester, choose one of:  
|             | **PSC4112**  
|             | Research in medicinal chemistry (36 points)  
|             | **PSC4212**  
|             | Research in formulation science (36 points)  
|             | **PSC4312**  
|             | Research in drug discovery biology (36 points)  

MONASH PHARMACY AND PHARMACEUTICAL SCIENCES