MONASH University

Course progression map for 2017 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 does not substitute for the list of required units as described in the course 'Requirements' section of the Handbook.

P3002 Bachelor of Pharmaceutical Science Advanced (Honours)

Specialisation - Formulation science

Year 1 Semester 1	PSC1011 Physiology I	PSC1021 Bioorganic and medicinal chemistry I	PSC1031 Physical chemistry I	PSC1041 Scientific Inquiry
Year 1 Semester 2	PSC1012 Physiology II	PSC1022 Bioorganic and medicinal chemistry II	PSC1032 Physical chemistry II	PSC1042 Multi-disciplinary pharmaceutical science
Year 2 Semester 1	PSC2011 Biochemical pharmacology	PSC2021 Structural organic chemistry	PSC2031 Analytical methods	PSC2041 Biopharmaceutics
Year 2 Semester 2	PSC2012 Molecular pharmacology	PSC2222 Formulation chemistry	PSC2232 Colloid chemistry	One of: PSC2322, PSC2132, PSC2142
Year 3 Semester 1	PSC3211 Industrial formulation	PSC3221 Biomolecule formulation and modified release technology	PSC3231 Pharmaceutical product manufacture	PSC3041 Applied analytical methods
Year 3 Semester 2	PSC3212 Product commercialisation	PSC3222 Advanced formulations and nanotechnologies	PSC3532 Formulation science pre honours research project (12 points)	
Year 4 Semester 1	PSC4211 Advanced formulation science (12 points)			
Year 4 Semester 2	PSC4212 Research in formulation science (36 points)			

A	Foundational science studies
B	Pharmaceutical science studies
C	Honours research program

Source: *Monash University 2017 Handbook* –http://www.monash.edu.au/pubs/2017handbooks/maps/map-p3002.pdf
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P3002 Bachelor of Pharmaceutical Science Advanced (Honours)

Specialisation - Medicinal chemistry

Year 1 Semester 1	PSC1011 Physiology I	PSC1021 Bioorganic and medicinal chemistry I	PSC1031 Physical chemistry I	PSC1041 Scientific Inquiry
Year 1 Semester 2	PSC1012 Physiology II	PSC1022 Bioorganic and medicinal chemistry II	PSC1032 Physical chemistry II	PSC1042 Multi-disciplinary pharmaceutical science
Year 2 Semester 1	PSC2011 Biochemical pharmacology	PSC2021 Structural organic chemistry	PSC2031 Analytical methods	PSC2041 Biopharmaceutics
Year 2 Semester 2	PSC2012 Molecular pharmacology	PSC2122 Synthetic organic chemistry	PSC2132 Intro to spectroscopy	PSC2142 Computational chemistry
Year 3 Semester 1	PSC3111 Molecular basis of drug action	PSC3121 Advanced synthetic organic chemistry	PSC3131 Medicinal analysis of drug receptor interactions	PSC3041 Applied analytical methods
Year 3 Semester 2	PSC3112 Drug discovery and development	PSC3122 Applied medicinal chemistry	PSC3432 Medicinal chemistry pre honours research project (12 points)	
Year 4 Semester 1	PSC4111 Advanced medicinal chemistry (12 points)			
Year 4 Semester 2	PSC4112 Research in medicinal chemistry (36 points)			

A	Foundational science studies
B	Pharmaceutical science studies
C	Honours research program

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P3002 Bachelor of Pharmaceutical Science Advanced (Honours)

Specialisation - Drug discovery biology

Year 1 Semester 1	PSC1011 Physiology I	PSC1021 Bioorganic and medicinal chemistry I	PSC1031 Physical chemistry I	PSC1041 Scientific Inquiry
Year 1 Semester 2	PSC1012 Physiology II	PSC1022 Bioorganic and medicinal chemistry II	PSC1032 Physical chemistry II	PSC1042 Multi-disciplinary pharmaceutical science
Year 2 Semester 1	PSC2011 Biochemical pharmacology	PSC2021 Structural organic chemistry	PSC2031 Analytical methods	PSC2041 Biopharmaceutics
Year 2 Semester 2	PSC2012 Molecular pharmacology	PSC2322 Molecular cell biology	PSC2332 Disease focused pharmacology - peripheral	One of: PSC2132, PSC2142
Year 3 Semester 1	PSC3311 Microbiology and immunology	PSC3321 Disease focused pharmacology – CNS	PSC3111 Molecular basis of drug action	PSC3041 Applied analytical methods
Year 3 Semester 2	PSC3112 Drug discovery and development	PSC3322 Current aspects of cancer biology	PSC3632 Drug discovery biology pre honours research project (12 points)	
Year 4 Semester 1	PSC4311 Advanced drug discovery biology (12 points)			
Year 4 Semester 2	PSC4312 Research in drug discovery biology (36 points)			

A	Foundational science studies
B	Pharmaceutical science studies
C	Honours research program

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