MONASH University

Course progression map for 2018 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.

P2001 Bachelor of Pharmaceutical Science

Specialisation - Drug discovery biology

The placement of units may be rearranged to provide flexibility in choice of elective units and to support sequencing for double degree courses but care should be taken to ensure sequenced units are maintained in sequence.

Year 1 Semester 1	**BPS1011** Human physiology I: Cells to systems	**BPS1021** Medicinal chemistry I: Structure	**BPS1031** Physical chemistry I: Equilibria & change	**BPS1041** Scientific Inquiry
Year 1 Semester 2	**BPS1012** Human physiology II: Body systems	**BPS1022** Medicinal chemistry II: Reactivity and biomolecules	**BPS1032** Physical chemistry II: Solutions, surfaces and solids	**BPS1042** Pharmaceutical science in context
Year 2 Semester 1	**BPS2011** Pharmacology I: Biochemical signalling	**BPS2021** Synthetic chemistry I	**BPS2031** Analytical methods I: Principles and applications	**BPS2041** Drug delivery: Absorption pathways
Year 2 Semester 2	**BPS2012** Pharmacology II: Drug action	**BPS2022** Drug Discovery and Design	**BPS2032** Analytical methods II: Investigation design	**BPS2042** Drug Development
Year 3 Semester 1	**BPS3111** Pharmacology III: Advanced concepts	**BPS3121** Disease-focused pharmacology - Peripheral	**BPS3131** Microbiology & immunology	**Elective unit** Choose one of: • **BPS3211** Computational drug design • **BPS3321** Biotechnology products • **BPS3311** Applied pharmacokinetics and pharmacodynamics • **BPS3711** Analysis of drug-receptor interactions
Year 3 Semester 2	**BPS3112** Professional experience in drug discovery biology	**BPS3122** Disease-focused pharmacology – CNS	**BPS3132** Toxicology	**Elective unit** Choose one of: • **BPS3232** Molecular basis of drug action • **BPS3322** Drug delivery nanotechnology

A	Foundation sciences
B,C	Pharmaceutical science and Applied project

Source: *Monash University 2017 Handbook* –http://www.monash.edu.au/pubs/2017handbooks/maps/map-p2001.pdf
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P2001 Bachelor of Pharmaceutical Science

Specialisation - Medicinal chemistry

The placement of units may be rearranged to provide flexibility in choice of elective units and to support sequencing for double degree courses but care should be taken to ensure sequenced units are maintained in sequence.

Year 1 Semester 1	**BPS1011** Human physiology I: Cells to systems	**BPS1021** Medicinal chemistry I: Structure	**BPS1031** Physical chemistry I: Equilibria & change	**BPS1041** Scientific Inquiry
Year 1 Semester 2	**BPS1012** Human physiology II: Body systems	**BPS1022** Medicinal chemistry II: Reactivity and biomolecules	**BPS1032** Physical chemistry II: Solutions, surfaces and solids	**BPS1042** Pharmaceutical science in context
Year 2 Semester 1	**BPS2011** Pharmacology I: Biochemical signalling	**BPS2021** Synthetic chemistry I	**BPS2031** Analytical methods I: Principles and applications	**BPS2041** Drug delivery: Absorption pathways
Year 2 Semester 2	**BPS2012** Pharmacology II: Drug action	**BPS2022** Drug Discovery and Design	**BPS2032** Analytical methods II: Investigation design	**BPS2042** Drug Development
Year 3 Semester 1	**BPS3211** Computational drug design	**BPS3221** Synthetic chemistry II: Emerging methods	**BPS3231** Advanced experimental spectroscopy	**Elective unit** Choose one of: • **BPS3121** Disease-focused pharmacology – peripheral • **BPS3131** Microbiology & immunology • **BPS3321** Biotechnology products • **BPS3711** Analysis of drug-receptor interactions
Year 3 Semester 2	**BPS3212** Professional experience in medicinal chemistry	**BPS3222** Synthetic strategies for drug design	**BPS3232** Molecular basis of drug action	**Elective unit** Choose one of: • **BPS3122** Disease-focused pharmacology – CNS • **BPS3132** Toxicology • **BPS3322** Drug delivery nanotechnology

A	Foundation sciences
B,C	Pharmaceutical science and Applied project

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P2001 Bachelor of Pharmaceutical Science

Specialisation - Formulation science

The placement of units may be rearranged to provide flexibility in choice of elective units and to support sequencing for double degree courses but care should be taken to ensure sequenced units are maintained in sequence.

Year 1 Semester 1	**BPS1011** Human physiology I: Cells to systems	**BPS1021** Medicinal chemistry I: Structure	**BPS1031** Physical chemistry I: Equilibria & change	**BPS1041** Scientific Inquiry
Year 1 Semester 2	**BPS1012** Human physiology II: Body systems	**BPS1022** Medicinal chemistry II: Reactivity and biomolecules	**BPS1032** Physical chemistry II: Solutions, surfaces and solids	**BPS1042** Pharmaceutical science in context
Year 2 Semester 1	**BPS2011** Pharmacology I: Biochemical signalling	**BPS2021** Synthetic chemistry I	**BPS2031** Analytical methods I: Principles and applications	**BPS2041** Drug delivery: Absorption pathways
Year 2 Semester 2	**BPS2012** Pharmacology II: Drug action	**BPS2022** Drug Discovery and Design	**BPS2032** Analytical methods II: Investigation design	**BPS2042** Drug Development
Year 3 Semester 1	**BPS3311** Applied pharmacokinetics and pharmacodynamics	**BPS3321** Biotechnology products	**BPS3331** Pharmaceutical product development and manufacture	**Elective unit** Choose one of: • **BPS3121** Disease-focused pharmacology – peripheral • **BPS3131** Microbiology & immunology • **BPS3211** Computational drug design • **BPS3711** Analysis of drug-receptor interactions
Year 3 Semester 2	**BPS3312** Professional experience in formulation science	**BPS3322** Drug delivery nanotechnology	**BPS3332** Industrial formulation	**Elective unit** Choose one of: • **BPS3122** Disease-focused pharmacology – CNS • **BPS3132** Toxicology • **BPS3232** Molecular basis of drug action

A	Foundation sciences
B,C	Pharmaceutical science and Applied project

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