

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 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 - Drug discovery biology

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: <ul style="list-style-type: none"> • BPS3211 Computational drug design • BPS3321 Biotechnology products • BPS3311 Applied pharmacokinetics and pharmacodynamics • BPS3711 Analysis of drug-receptor interactions
Year 3 Semester 2	BPS3412 Drug Discovery Biology pre Honours research project (12 credit points)		BPS3122 Disease-focused pharmacology – CNS	BPS3132 Toxicology
Year 4 Semester 1	Choose one of: PSC4111 Advanced medicinal chemistry (12 points) PSC4211 Advanced formulation science (12 points) PSC4311 Advanced drug discovery biology (12 points)			
Year 4 Semester 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)			

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

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P3002 Bachelor of Pharmaceutical Science Advanced (Honours)

Specialisation - Medicinal chemistry

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: Structure and Reactivity	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: <ul style="list-style-type: none"> BPS3121 Disease-focused pharmacology – peripheral BPS3131 Microbiology & immunology BPS3321 Biotechnology products BPS3711 Analysis of drug-receptor interactions
Year 3 Semester 2	BPS3512 Medicinal Chemistry pre honours research project (12 credit points)		BPS3222 Synthetic strategies for drug design	BPS3232 Molecular basis of drug action
Year 4 Semester 1	Choose one of: PSC4111 Advanced medicinal chemistry (12 points) PSC4211 Advanced formulation science (12 points) PSC4311 Advanced drug discovery biology (12 points)			
Year 4 Semester 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)			

A	Foundational science studies
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P3002 Bachelor of Pharmaceutical Science Advanced (Honours)

Specialisation - Formulation science

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: Structure and Reactivity	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: <ul style="list-style-type: none"> BPS3121 Disease-focused pharmacology – peripheral BPS3131 Microbiology & immunology BPS3211 Computational Drug Design BPS3711 Analysis of drug-receptor interactions
Year 3 Semester 2	BPS3612 Industry-linked research project (incorporating a placement) (12 credit points)		BPS3322 Drug delivery nanotechnology	BPS3332 Industrial formulation
Year 4 Semester 1	Choose one of: PSC4111 Advanced medicinal chemistry (12 points) PSC4211 Advanced formulation science (12 points) PSC4311 Advanced drug discovery biology (12 points)			
Year 4 Semester 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)			

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