

Study Plan Template – no intake for 2021

Bachelor of Science (Nanotechnology)

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 108 units of study according to the official Bachelor of Science (Nanotechnology) course rule available at <https://students.flinders.edu.au/my-course/course-rules/undergrad/bscs/bscs-nano>

Students are responsible for planning their Core, Option and Elective topics ahead to ensure they meet the topic prerequisites.

A list of all topics, including topic prerequisite information and alternate study period availabilities, is available at [2021 Topics](#).

Semester 1 start: Biomedical Nanotechnology Stream

Year 1	S1	BIOL1102 Molecular Basis of Life	CHEM1101 Chemical Structure and Bonding	MATH1121 Mathematics 1A OR MATH1701 Mathematics Fundamentals A MUST CHOOSE A PAIR	STEM1001 Nature of STEM
	S2	NANO1101 Fundamentals of Nanotechnology	CHEM1102 Modern Chemistry	MATH1122 Mathematics 1B OR MATH1702 Mathematics Fundamentals B MUST CHOOSE A PAIR	^ Elective Topic
Year 2	S1	BIOL2771 Biochemistry	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	^ Elective Topic
	S2	BIOL2772 Molecular Biology	CHEM2702 Organic Reactions	NANO2701 Structure and Characterisation	^ Elective Topic
Year 3	S1	BIOL3771 DNA to Genome	CHEM3701 Applied Spectroscopy and Electrochemistry	^ Elective Topic	^ Elective Topic
	S2	BIOL3762 Protein to Proteome	CHEM2712 Analytical Separations	CHEM3712 Introduction to Polymer Science	NANO3702 Frontiers of Nanotechnology

Semester 2 start: Biomedical Nanotechnology Stream

Year 1	S2	CHEM1101 Chemical Structure and Bonding	CHEM1102 Modern Chemistry	MATH1121 Mathematics 1A OR MATH1701 Mathematics Fundamentals A MUST CHOOSE A PAIR	NANO1101 Fundamentals of Nanotechnology
	S1	BIOL1102 Molecular Basis of Life	STEM1001 Nature of STEM	MATH1122 Mathematics 1B OR MATH1702 Mathematics Fundamentals B MUST CHOOSE A PAIR	^ Elective Topic
Year 2	S2	BIOL2772 Molecular Biology	CHEM2702 Organic Reactions	NANO2701 Structure and Characterisation	^ Elective Topic
	S1	BIOL2771 Biochemistry	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	^ Elective Topic
Year 3	S2	BIOL3762 Protein to Proteome	CHEM2712 Analytical Separations	CHEM3712 Introduction to Polymer Science	NANO3702 Frontiers of Nanotechnology
	S1	BIOL3771 DNA to Genome	CHEM3701 Applied Spectroscopy and Electrochemistry	^ Elective Topic	^ Elective Topic

Key:	
Core Topic	Compulsory topic
Option Topic	A choice from a list of specified topics
^ Elective Topic	Any topic offered by the University at the appropriate year level, provided entry and course requirements are met and that no more than 45 units of First Year topics are included in the 108-unit program. Please refer to the course rule for a list of recommended electives. Students are encouraged to enroll in STEM3001 Science Connect as a third-year elective

Semester 1 start: Quantum Nanostructures Stream

Year 1	S1	CHEM1101 Chemical Structure and Bonding	MATH1121 Mathematics 1A	PHYS1101 Fundamental Physics I	STEM1001_ Nature of STEM
	S2	CHEM1102 Modern Chemistry	MATH1122 Mathematics 1B	PHYS1102 Fundamental Physics II	NANO1101 Fundamentals of Nanotechnology
Year 2	S1	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	MATH2702 Linear Algebra and Differential Equations	PHYS2701 Quantum Concepts
	S2	CHEM2702 Organic Reactions	NANO2701 Structure and Characterisation	^ Elective Topic	^ Elective Topic
Year 3	S1	CHEM3701 Applied Spectroscopy and Electrochemistry	MATH3702 Methods of Applied Mathematics	PHYS3711 Quantum Physics	^ Elective Topic
	S2	CHEM2712 Analytical Separations	CHEM3712 Introduction to Polymer Science	NANO3702 Frontiers of Nanotechnology	^ Elective Topic

Semester 2 start: Quantum Nanostructures Stream

Year 1	S2	CHEM1101 Chemical Structure and Bonding	CHEM1102 Modern Chemistry	MATH1121 Mathematics 1A	NANO1101 Fundamentals of Nanotechnology
	S1	PHYS1101 Fundamental Physics I	STEM1001_ Nature of STEM	MATH1122 Mathematics 1B	^ Elective Topic
Year 2	S2	PHYS1102 Fundamental Physics II	CHEM2702 Organic Reactions	NANO2701 Structure and Characterisation	^ Elective Topic
	S1	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	MATH2702 Linear Algebra and Differential Equations	PHYS2701 Quantum Concepts
Year 3	S2	CHEM2712 Analytical Separations	CHEM3712 Introduction to Polymer Science	NANO3702 Frontiers of Nanotechnology	^ Elective Topic
	S1	CHEM3701 Applied Spectroscopy and Electrochemistry	MATH3702 Methods of Applied Mathematics	PHYS3711 Quantum Physics	^ Elective Topic

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