Bachelor of Science (Honours) (Nanotechnology) 2022 Study Planner



Semester 1 Start: Biomedical Nanotechnology Stream

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First Level	Semester 1	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
	Semester 2	CHEM1102 Modern Chemistry	MATH1122 Mathematics 1B OR MATH1702 Mathematics Fundamentals B MUST CHOOSE A PAIR	Elective Topic	Elective Topic
Second Level	Semester 1	BIOL2771 Biochemistry	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	Elective Topic
Secon	Semester 2	BIOL2772 Molecular Biology	CHEM2702 Organic Reactions	NANO2701 Structure and Characterisation	Elective Topic
Third Level	Semester 1	BIOL3771 DNA to Genome	CHEM3701 Applied Spectroscopy and Electrochemistry	Elective Topic	Elective Topic
Third	Semester 2	BIOL3762 Protein to Proteome	CHEM2712 Analytical Separations	CHEM3712 Introduction to Polymer Science	NANO3702 Frontiers of Nanotechnology
Fourth Level	Semester 1	STEM7001 Honours Research Methods	CPES7711 Advanced Techniques in Chemical and Physical Science	CPES7721 Advanced Chemical and Physical Science	STEM7000A Honours Research Project in STEM
Fourth	Semester 2	STEM7000B Honours Research Project in STEM	STEM7000C Honours Research Project in STEM	STEM7000D Honours Research Project in STEM	STEM7000E Honours Research Project in STEM

Semester 2 Start: Biomedical Nanotechnology Stream

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/el	Semester 2	CHEM1101 Chemical Structure and Bonding	CHEM1102 Modern Chemistry	MATH1121 Mathematics 1A OR MATH1701 Mathematics Fundamentals A	Elective Topic	
First Level	Semester 1	BIOL1102 Molecular Basis of Life	STEM1001 Nature of STEM	MUST CHOOSE A PAIR MATH1122 Mathematics 1B OR MATH1702 Mathematics Fundamentals B MUST CHOOSE A PAIR	Elective Topic	
Second Level	Semester 2	BIOL2772 Molecular Biology	CHEM2702 Organic Reactions	NANO2701 Structure and Characterisation	Elective Topic	
Secon	Semester 1	BIOL2771 Biochemistry	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	Elective Topic	
Third Level	Semester 2	BIOL3762 Protein to Proteome	CHEM2712 Analytical Separations	CHEM3712 Introduction to Polymer Science	NANO3702 Frontiers of Nanotechnology	
Third	Semester 1	BIOL3771 DNA to Genome	CHEM3701 Applied Spectroscopy and Electrochemistry	Elective Topic	Elective Topic	
Fourth Level	Semester 2	STEM7001 Honours Research Methods	STEM7000A Honours Research Project in STEM	STEM7000B Honours Research Project in STEM	STEM7000C Honours Research Project in STEM	
Fourth	Semester 1	CPES7711 Advanced Techniques in Chemical and Physical Science	CPES7721 Advanced Chemical and Physical Science	STEM7000D Honours Research Project in STEM	STEM7000E Honours Research Project in STEM	

Semester 1 Start: Quantum Nanostructures Stream

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First Level	Semester 1	CHEM1101 Chemical Structure and Bonding	MATH1121 Mathematics 1A	PHYS1101 Fundamental Physics I	STEM1001_ Nature of STEM
	Semester 2	CHEM1102 Modern Chemistry	MATH1122 Mathematics 1B	PHYS1102 Fundamental Physics II	Elective Topic
Second Level	Semester 1	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	MATH2702 Linear Algebra and Differential Equations	PHYS2701 Quantum Concepts
Second	Semester 2	CHEM2702 Organic Reactions	NANO2701 Structure and Characterisation	Elective Topic	Elective Topic
Third Level	Semester 1	CHEM3701 Applied Spectroscopy and Electrochemistry	MATH3702 Methods of Applied Mathematics	PHYS3711 Quantum Physics	Elective Topic
Third	Semester 2	CHEM2712 Analytical Separations	CHEM3712 Introduction to Polymer Science	NANO3702 Frontiers of Nanotechnology	Elective Topic
Level	Semester 1	STEM7001 Honours Research Methods	CPES7711 Advanced Techniques in Chemical and Physical Science	CPES7721 Advanced Chemical and Physical Science	STEM7000A Honours Research Project in STEM
Fourth Le	Semester 2	STEM7000B Honours Research Project in STEM	STEM7000C Honours Research Project in STEM	STEM7000D Honours Research Project in STEM	STEM7000E Honours Research Project in STEM

Semester 2 Start: Biomedical Nanotechnology Stream

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First Level	Semester 2	CHEM1101 Chemical Structure and Bonding	CHEM1102 Modern Chemistry	MATH1121 Mathematics 1A	Elective Topic
First	Semester 1	PHYS1101 Fundamental Physics I	STEM1001_ Nature of STEM	MATH1122 Mathematics 1B	Elective Topic
l Level	Semester 2	PHYS1102 Fundamental Physics II	CHEM2702 Organic Reactions	NANO2701 Structure and Characterisation	Elective Topic
Second Level	Semester 1	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	MATH2702 Linear Algebra and Differential Equations	PHYS2701 Quantum Concepts
evel					
Level	Semester 2	CHEM2712 Analytical Separations	CHEM3712 Introduction to Polymer Science	NANO3702 Frontiers of Nanotechnology	Elective Topic
Third Level	Semester 1 Semester 2		Introduction to Polymer	Frontiers of	Elective Topic Elective Topic
Fourth Level Third Level	Semester	Analytical Separations CHEM3701 Applied Spectroscopy and	Introduction to Polymer Science MATH3702 Methods of Applied	Frontiers of Nanotechnology PHYS3711	

Key:

Core Topics	Compulsory topic
Option Topics	A choice from a list of specified topics (please refer to course rule)
Elective	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 note:

- This document is provided as a guide only. Students are responsible for ensuring that they have completed their study according to the official Course Rule.
- Topic information for all topics, including pre-requisites can be found on the <u>Topic Page</u>
- General enrolment assistance is available via <u>Ask Flinders</u>
- For specific course advice e-mail: courseadvice.SE@flinders.edu.au