

# Bachelor of Science (Nanotechnology) 2022 Study Planner

## Semester 1 Start: Biomedical Nanotechnology Stream

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

## Semester 2 Start: Biomedical Nanotechnology Stream

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

## Semester 1 Start: Quantum Nanostructures Stream

First Level	Semester 1	<b>CHEM1101</b> Chemical Structure and Bonding	<b>MATH1121</b> Mathematics 1A	<b>PHYS1101</b> Fundamental Physics I	<b>STEM1001</b> Nature of STEM
	Semester 2	<b>CHEM1102</b> Modern Chemistry	<b>MATH1122</b> Mathematics 1B	<b>PHYS1102</b> Fundamental Physics II	<b>Elective Topic</b>
Second Level	Semester 1	<b>CHEM2701</b> Chemical Reactivity	<b>CHEM2711</b> Spectroscopy and Data Analysis	<b>MATH2702</b> Linear Algebra and Differential Equations	<b>PHYS2701</b> Quantum Concepts
	Semester 2	<b>CHEM2702</b> Organic Reactions	<b>NANO2701</b> Structure and Characterisation	<b>Elective Topic</b>	<b>Elective Topic</b>
Third Level	Semester 1	<b>CHEM3701</b> Applied Spectroscopy and Electrochemistry	<b>MATH3702</b> Methods of Applied Mathematics	<b>PHYS3711</b> Quantum Physics	<b>Elective Topic</b>
	Semester 2	<b>CHEM2712</b> Analytical Separations	<b>CHEM3712</b> Introduction to Polymer Science	<b>NANO3702</b> Frontiers of Nanotechnology	<b>Elective Topic</b>

## Semester 2 Start: Quantum Nanostructures Stream

First Level	Semester 2	<b>CHEM1101</b> Chemical Structure and Bonding	<b>CHEM1102</b> Modern Chemistry	<b>MATH1121</b> Mathematics 1A	Elective Topic
	Semester 1	<b>PHYS1101</b> Fundamental Physics I	<b>STEM1001</b> Nature of STEM	<b>MATH1122</b> Mathematics 1B	Elective Topic
Second Level	Semester 2	<b>PHYS1102</b> Fundamental Physics II	<b>CHEM2702</b> Organic Reactions	<b>NANO2701</b> Structure and Characterisation	Elective Topic
	Semester 1	<b>CHEM2701</b> Chemical Reactivity	<b>CHEM2711</b> Spectroscopy and Data Analysis	<b>MATH2702</b> Linear Algebra and Differential Equations	<b>PHYS2701</b> Quantum Concepts
Third Level	Semester 2	<b>CHEM2712</b> Analytical Separations	<b>CHEM3712</b> Introduction to Polymer Science	<b>NANO3702</b> Frontiers of Nanotechnology	Elective Topic
	Semester 1	<b>CHEM3701</b> Applied Spectroscopy and Electrochemistry	<b>MATH3702</b> Methods of Applied Mathematics	<b>PHYS3711</b> Quantum Physics	Elective Topic

### 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 [Topic Page](#)
- General enrolment assistance is available via [Ask Flinders](#)
- For specific course advice e-mail: [courseadvice.SE@flinders.edu.au](mailto:courseadvice.SE@flinders.edu.au)