

2021 Study Plan Template

Bachelor of Science (Honours) (Chemical Sciences), Master of Engineering (Materials)

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 180 units of study according to the official Bachelor of Science (Honours) (Chemical Sciences), Master of Engineering (Materials) course rule available at <https://students.flinders.edu.au/my-course/course-rules/undergrad/bschcmemt>

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](#).

Key:	
Core Topic	Compulsory topic
Option Topic	A choice from a list of specified topics
Master ENGR Option Topic	Selected from the list of ENGR topics under the Master of Engineering (Materials)
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

Please see the following pages for the suggested enrolment pattern for either Semester One or Semester Two commencement.

Semester 1 start:

Year 1	S1	CHEM1101 Chemical Structure and Bonding	ENGR1732 Engineering Mechanics	MATH1121 Mathematics 1A	EASC1101 Earth and Environmental Sciences OR BIOL1101 Evolution of Biological Diversity MUST CHOOSE A PAIR
	S2	CHEM1102 Modern Chemistry	ENGR1401 Professional Skills	MATH1122 Mathematics 1B	EASC1102 Marine Sciences OR BIOL1102 Molecular Basis of Life
Year 2	S1	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	ENGR1711 Engineering Design	ENGR2711 Engineering Mathematics
	S2	CHEM2702 Organic Reactions	CHEM2712 Analytical Separations	ENGR1722 Engineering Physics and Materials	NANO2701 Structure and Characterisation
Year 3	S1	CHEM3701 Applied Spectroscopy and Electrochemistry	CHEM3711 Organic Synthesis and Mechanism	FACH3701 Chemical Criminalistics	ENGR8791 Mechanics and Structures
	S2	CHEM3702 Inorganic and Organometallic Chemistry	CHEM3712 Introduction to Polymer Science	ENGR2812 Engineering Materials 2	ENGR8722 Analysis of Engineering Systems GE
Year 4	S1	ENGR7921 Materials Selection in Design	Master ENGR Option Topic	Master ENGR Option Topic	Elective Topic
	S2	FACH8702 Drug Action, Metabolism, Toxicology and Analysis GE	NANO8702 Frontiers of Nanotechnology GE	Master ENGR Option Topic	Elective Topic
Year 5	S1	ENGR9700A Masters Thesis	ENGR9700B Masters Thesis	ENGR9700C Masters Thesis	Master ENGR Option Topic
	NS1	ENGR3750 Workplace Preparation (0 units)			
	S2	ENGR9700D Masters Thesis	ENGR9742 Systems Engineering	ENGR9704 Engineering Management	ENGR9405 Engineering Work Experience GE

Semester 2 start:

Year 1	S2	CHEM1101 Chemical Structure and Bonding	CHEM1102 Modern Chemistry	MATH1121 Mathematics 1A	EASC1102 Marine Sciences OR BIOL1102 Molecular Basis of Life MUST CHOOSE A PAIR
	S1	ENGR1401 Professional Skills	ENGR1732 Engineering Mechanics	MATH1122 Mathematics 1B	EASC1101 Earth and Environmental Sciences OR BIOL1101 Evolution of Biological Diversity
Year 2	S2	CHEM2702 Organic Reactions	CHEM2712 Analytical Separation	ENGR1722 Engineering Physics and Materials	NANO2701 Structure and Characterisation
	S1	CHEM2701 Chemical Reactivity	CHEM2711 Spectroscopy and Data Analysis	ENGR1711 Engineering Design	ENGR2711 Engineering Mathematics
Year 3	S2	CHEM3702 Inorganic and Organometallic Chemistry	CHEM3712 Introduction to Polymer Science	ENGR2812 Engineering Materials 2	ENGR8722 Analysis of Engineering Systems GE
	S1	CHEM3701 Applied Spectroscopy and Electrochemistry	CHEM3711 Organic Synthesis and Mechanism	FACH3701 Chemical Criminalistics	ENGR8791 Mechanics and Structures
Year 4	S2	FACH8702 Drug Action, Metabolism, Toxicology and Analysis GE	NANO8702 Frontiers of Nanotechnology GE (Master ENGR Option Topic	Elective Topic
	S1	ENGR7921 Materials Selection in Design	Master ENGR Option Topic	Master ENGR Option Topic	Elective Topic
	NS1	ENGR3750 Workplace Preparation* (0 units)			
Year 5	S2	ENGR9700A Masters Thesis	ENGR9700B Masters Thesis	ENGR9704 Engineering Management	Master ENGR Option Topic
	S1	ENGR9700C Masters Thesis	ENGR9700D Masters Thesis	ENGR9405 Engineering Work Experience GE	ENGR9742 Systems Engineering