

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 |