

2021 Study Plan Template

Bachelor of Science (Energy and Advanced Materials)

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 (Energy and Advanced Materials) course rule available at <https://students.flinders.edu.au/my-course/course-rules/undergrad/bscs/bscs-egmt>

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 <http://www.flinders.edu.au/topic>.

Semester 1 start:

| | | | | | |
|--------|----|---|---|--|--|
| Year 1 | S1 | MATH1121 Mathematics 1A | PHYS1101 Fundamental Physics I | STEM1001 Nature of STEM | ^ Elective Topic |
| | S2 | MATH1122 Mathematics 1B | PHYS1102 Fundamental Physics II | ENGR1722 Engineering Physics and Materials | ^ Elective Topic |
| Year 2 | S1 | ENGR2711 Engineering Mathematics | PHYS2701 Quantum Concepts | PHYS2702 Classical Physics | ^ Elective Topic |
| | S2 | ENGR2722 Analysis of Engineering Systems | ENGR2812 Engineering Materials 2 | PHYS2712 Thermodynamics and Energy Systems | ^ Elective Topic |
| Year 3 | S1 | ENGR2861 Electromagnetics and Electromagnetic Waves | PHYS3711 Quantum Physics | ^ Elective Topic | ^ Elective Topic |
| | S2 | MATH3711 Complex Analysis | MATH3712 Partial Differential Equations | PHYS3701 Nuclear and Statistical Physics | PHYS3702 Solid State Physics and Optoelectronics |

Semester 2 start:

| | | | | | |
|--------|-----------------|---|--|--|--|
| Year 1 | S2 | ENGR1722 Engineering Physics and Materials | MATH1121 Mathematics 1A | ^ Elective Topic | ^ Elective Topic |
| | Summer Semester | | | MATH1122 Mathematics 1B | |
| | S1 | PHYS1101 Fundamental Physics I | STEM1001 Nature of STEM | ENGR2711 Engineering Mathematics | ^ Elective Topic |
| Year 2 | S2 | PHYS1102 Fundamental Physics II | ENGR2722 Analysis of Engineering Systems | ENGR2812 Engineering Materials 2 | MATH3711 Complex Analysis |
| | S1 | PHYS2701 Quantum Concepts | PHYS2702 Classical Physics | ^ Elective Topic | ^ Elective Topic |
| Year 3 | S2 | PHYS2712 Thermodynamics and Energy Systems | MATH3712 Partial Differential Equations | PHYS3701 Nuclear and Statistical Physics | PHYS3702 Solid State Physics and Optoelectronics |
| | S1 | ENGR2861 Electromagnetics and Electromagnetic Waves | PHYS3711 Quantum Physics | ^ 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 |