

## RECOMMENDED STUDY PLAN

Mid-Year Entry 2021

DEGREE Bachelor of Science MAJOR Earth Science (ESC)

NAME \_\_\_\_\_

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to [Subject Search](#). If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

The College of Science and Engineering has implemented screening testing in this degree so that students who are suitably qualified can replace core preparatory subjects with elective subjects. The screening tests **must** be completed even if Senior Chemistry or Maths Methods (or equivalent) have been studied at secondary school.

| Year 1 | MID-YEAR<br>ENTRY | Study Period 2 - SP2   |
|--------|-------------------|--|
|        |                   | <b>Degree Core:</b> <u>CH1020</u> Preparatory Chemistry #<br># This core subject may be replaced by an elective if you pass the chemistry screening test (held during orientation week). The screening test needs to be completed even if Senior Chemistry (or equivalent) has been studied at secondary school. |
|        |                   | <b>Degree Core:</b> <u>MA1020</u> Preparatory Math*<br>* This core subject may be replaced by an elective if you pass the maths screening test (held during orientation week). The screening test needs to be completed even if Maths Methods (or equivalent) has been studied at secondary school.              |
|        |                   | <b>Degree Opt Core</b> <u>Breadth-List 1</u> :   |
|        |                   | <b>Major Core:</b> <u>EA1110</u> Evolution of the Earth  |

| Year 2 | Study Period 1 - SP1   | Study Period 2 - SP2  |
|--------|--|---|
|        | <b>Degree Core:</b> <u>SC1101</u> Science Technology and Truth           | <b>Degree Opt Core</b><br><u>SC1102</u> Modelling Natural Systems<br>PREREQ: MA1020<br><b>OR</b><br><u>SC1109</u> Modelling Natural Systems-Advanced^<br>PREREQ: MA1000 OR MA1009 |
|        | <b>Degree Opt Core</b> <u>Breadth-List 1</u> :                           | <b>Degree Opt Core</b> <u>Skill-List 2</u> :  |
|        | <b>Major Core:</b> <u>EV1005</u> Environmental Processes & Global Change | <b>Elective/Minor/2<sup>nd</sup> Major:</b>   |
|        | <b>Elective/Minor/2<sup>nd</sup> Major:</b>                              | <b>Elective/Minor/2<sup>nd</sup> Major:</b>   |

^ Note- SC1109 is compulsory in the Advanced BSc Program and should be taken instead of SC1102 if you are considering that pathway.

| Year 3 | Study Period 1 - SP1  | Study Period 2 - SP2  |
|--------|---|---|
|        | <b>Degree Core:</b><br><u>SC2202</u> Quantitative Methods in Science<br>PREREQ: SC1102 OR MA1020 OR MATHS B OR EQUIVALENT<br><b>OR</b><br><u>SC2209</u> Quantitative Methods in Science-Advanced<br>PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS        | <b>Major Core:</b> <u>EA3110</u> Sedimentology and Stratigraphy<br>PREREQ: EA1110 |
|        | <b>Major Core:</b> <u>EA2006</u> Hydrology<br>PREREQ: AT LEAST 12CP LEVEL 1   | <b>Major Core:</b> <u>EA3207</u> Soil Properties and Processes for Science        |
|        | <b>Major Core:</b> <u>EV2401</u> Australian Landscape Processes and Evolution<br>PREREQ: AT LEAST 12CP LEVEL 1 SUBJECTS   | <b>Elective/Minor/2<sup>nd</sup> Major:</b>                                       |
|        | <b>Major Core:</b><br><u>EA2220</u> Minerals and Magmas<br>PREREQ: EA1110 AND AT LEAST 9CP LEVEL 1 AN, AR, BZ, EV, MA, MB, PH, SC (BU1004 or BU1104) SUBJECTS<br><b>OR</b><br><u>EA2404</u> From Icehouse to Greenhouse – SP2<br>PREREQ: AT LEAST 12CP LEVEL 1 SUBJECTS | <b>Elective/Minor/2<sup>nd</sup> Major:</b>                                       |

| Year 4 | Study Period 1 - SP1  | MID-YEAR<br>COMPLETION |
|--------|---|------------------------|
|        | <b>Degree Core:</b> <u>SC3008</u> Professional Placement - <i>available any SP</i>            |                        |
|        | <b>Degree Core:</b> <u>SC3010</u> Sensors and Sensing for Scientists<br>PREREQ: SC2202/SC2209 |                        |
|        | <b>Major Core:</b> <u>EA3210</u> Structural Geology and Tectonics<br>PREREQ: EA1110           |                        |
|        | <b>Elective/Minor/2<sup>nd</sup> Major:</b>   |                        |

### Further Degree Options:

| <b>Breadth-List 1:</b>   |  |
|--|--|
| <b>Study Period 1 – SP1</b>  | <b>Study Period 2 – SP2</b>  |
| <p><u>CP1401</u> Problem Solving and Programming I<br/> <b>OR</b><br/> <u>CP1404</u> Programming II<br/> <b>PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201</b><br/> <i>both subjects available in SP1 and SP2 **</i></p> |  |
| <u>BM1000</u> Introductory Biochemistry and Microbiology – TSV only<br><b>PREREQ: CH1020 OR SENIOR CHEMISTRY</b>   | <u>BS1001</u> Introduction to Biological Processes   |
| <u>BZ1006</u> Diversity of Life – CNS only   | <u>CH1002</u> Chemistry: Principles & Applications – TSV only<br><b>PREREQ: CH1001 OR CH1011</b>   |
| <u>BS1007</u> Introduction to Biodiversity – TSV only  | <u>MA1003</u> Mathematical Techniques<br><b>PREREQ: MA1000 OR MA1011 OR MA1009</b>   |
| <u>CH1001</u> Chemistry: A Central Science<br><b>PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY</b>  | <u>PH1007</u> Advanced Stream Physics 2 – TSV only<br><b>PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)</b> |
| <u>EG1000</u> Engineering 1  |  |
| <u>MA1000</u> Mathematical Foundations<br><b>PREREQ: MA1020 OR MATHEMATICS B OR MATHS C</b>  |  |
| <u>PH1005</u> Advanced Stream Physics 1<br><b>PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.</b>   |  |

**\*\*CP1404 has been added to the structure from 2019. We would prefer if you would take CP1404.**

| <b>Skill-List 2:</b>             |  |
|----------------------------------|--|
| <b>Study Period 1 – SP1</b>      | <b>Study Period 2 – SP2</b>  |
| <u>CP2404</u> Database Modelling | <u>EV2502</u> Introduction to Geographic Information Systems<br><b>PREREQ: 12CP LEVEL 1 SUBJECTS</b> |
|                                  | <u>MA2210</u> Linear Algebra<br><b>PREREQ: MA1003</b>  |
|                                  | <u>CH2103</u> Analytical Chemistry – TSV only<br><b>PREREQ: CH1001 OR CH1011</b>                     |