

## RECOMMENDED STUDY PLAN

Mid-Year Entry **2021**

DEGREE Bachelor of Marine Science STREAM Maths

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.

| Year 1 | MID-YEAR<br>ENTRY | Study Period 2 - SP2                                                                                                                                                               |
|--------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                   | <b>Degree Core:</b> <u>EA1110</u> Evolution of the Earth                                                                                                                           |
|        |                   | <b>Degree Opt Core:</b> <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 Core:</b> <u>MB1110</u> Introductory Marine Science<br>PREREQ: MA1020* AND CH1020+                                                                                       |
|        |                   | <b>Elective:</b>                                                                                                                                                                   |

^SC1109 has more math-based tutorials and requires MA1000. It may be taken as an alternative to SC1102 if you would prefer. It is a required subject in the Advanced Science program if you are considering that pathway.

+Missing high school chemistry, select CH1020- Preparatory Chemistry in SP2.

\*Missing high school intermediate level Mathematics B, select MA1020 Preparatory Mathematics in SP2. You will NOT be able to take SC1102 in SP2 in Year 1 and you will need to overload with 5 subjects in a later study period to catch up or extend your degree by a semester.

**If you require BOTH CH1020 & MA1020 please speak with your course advisor prior to beginning your studies.**

| Year 2 | Study Period 1 - SP1                                                             | Study Period 2 - SP2                                                                                              |
|--------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|        | <b>Degree Core:</b> <u>BS1007</u> Introduction to Biodiversity                   | <b>Degree Core:</b> <u>EV2502</u> Introduction to Geographic Information Systems<br>PREREQ: 12CP LEVEL 1 SUBJECTS |
|        | <b>Degree Core:</b> <u>CH1001</u> Chemistry: A Central Science<br>PREREQ: CH1020 | <b>Degree Core:</b> <u>PH2006</u> Marine Physics                                                                  |
|        | <b>Degree Core:</b> <u>MA1000</u> Mathematical Foundations<br>PREREQ: MA1020     | <b>Stream Core:</b> <u>MA1003</u> Mathematical Techniques<br>PREREQ: MA1000 OR MA1011 OR MA1009                   |
|        | <b>Elective:</b>                                                                 |                                                                                                                   |

| Year 3 | Study Period 1 - SP1                                                                                                                                                                                                                                             | Study Period 2 - SP2                                                                                                                                                                                                                                                                       |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <b>Degree Opt Core:</b> <u>SC2202</u> Quantitative Methods in Science<br>PREREQ: SC1102 OR MA1020 OR MATH 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>Degree Core</b> <u>EA3110</u> : Sedimentology and Stratigraphy<br>PREREQ: EA1110                                                                                                                                                                                                        |
|        | <b>Degree Core:</b> <u>CH2042</u> Marine Chemistry and Chemical Ecology<br>PREREQ: CH1001 OR CH1011                                                                                                                                                              | <b>Degree Core:</b> <u>MB3270</u> Coastal, Estuarine and Mangrove Ecosystems<br>PREREQ: BS1007 OR MB2050 OR SC2202/SC2209                                                                                                                                                                  |
|        | <b>Degree Core:</b> <u>MB2050</u> Functional Biology of Marine Organisms<br>PREREQ: BS1007 OR BZ1006                                                                                                                                                             | <b>Degree Core:</b> <u>SC3232</u> : Marine Sensor Technologies and Applications – Not currently available, replace with EV3401<br><del>PREREQ: PH2222 OR SC3010</del><br><u>EV3401</u> Coastal and Catchment Geomorphology<br>PREREQ: 12CP LEVEL 2 INCLUDING 6CP LEVEL 2 EV OR EA SUBJECTS |
|        | Stream Options-List 1:                                                                                                                                                                                                                                           | Stream Options-List 1:                                                                                                                                                                                                                                                                     |

  

|  |                                                                                                                                                                        |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>SP11 (Nov-Dec)</b>                                                                                                                                                  |
|  | <b>Degree Core:</b> <u>EA3640</u> Advanced Environmental and Marine Geoscience Technologies and Applications<br>PREREQ: 12CP LEVEL 2 AND 3CP LEVEL 1 EA OR MB SUBJECTS |

| Year 4 | Study Period 1 - SP1                                                                                                             | MID-YEAR COMPLETION |
|--------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|
|        | <b>Degree Core:</b> <u>MB3050</u> Biological Oceanography<br>PREREQ: BS1007 AND MB2050 AND SC2202/SC2209                         |                     |
|        | <b>Degree Core:</b> <u>EV3406</u> Coral Reef Geomorphology<br>PREREQ: 12CP LEVEL 2 INCLUDING 6CP LEVEL 2 EV OR EA OR MB SUBJECTS |                     |
|        | <b>Degree Core:</b> <u>SC3010</u> Sensors and Sensing for Scientists<br>PREREQ: SC2202/SC2209                                    |                     |
|        | Stream Options-List 1:                                                                                                           |                     |

| List of Subjects Available to this Stream: <u>List 1</u><br>Select any 3 subjects from: |                                                                                                        |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Study Period 1 - SP1                                                                    | Study Period 2 - SP2                                                                                   |
| <u>MA2000</u> Mathematics for Scientists and Engineers<br>PREREQ: MA1003                | <u>MA2210</u> Linear Algebra<br>PREREQ: MA1003                                                         |
| <u>CP2404</u> Database Modelling                                                        | <u>MA2405</u> Advanced Statistical Modelling<br>PREREQ: MA1401 OR BZ2001 OR MA2401 OR SC2202 OR SC2209 |
|                                                                                         | <u>MA3405</u> Statistical Data Mining for Big Data<br>PREREQ: MA2405 OR MA2000 OR SC2202 OR SC2209     |

### PROFESSIONAL ACCREDITATION STATUS

Environmental Institute of Australia and New Zealand accredits individual graduates but not courses

- <http://www.eianz.org/>

### ADDITIONAL COURSE RULES

Study plan may only include a maximum of 30 credit points of Level 1 subjects and a minimum of 18 credit points must be taken at Level 3.

### ADDITIONAL COMPLETION REQUIREMENTS

Applicants who select SC1102: Modelling Natural Systems as a part of their degree but have not completed high school intermediate level Mathematics B (or equivalent) must also select MA1020: Preparatory Mathematics as part of their study plan.

MA1020 is available on both campuses in full-semester and intensive mode. The intensive mode option typically starts earlier than the standard course commencement date. Contact JCU on 1800 246 446 for more information. Students can enrol in BU1007 without completing high school intermediate level Mathematics B (or equivalent).

This course involves mandatory field work and any costs associated with the field work will be at the student's expense.

### COURSE PROGRESSION REQUISITES

Must complete 18 credit points of Level 1 or 2 subjects before attempting any Level 3 subject.

### ADDITIONAL INFORMATION

[Bachelor of Marine Science handbook](#)