

The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

RECOMMENDED STUDY PLAN

2022

| DEGREE Bachelor of Science | MAJOR Molecular and Cell Biology (MCB) |
|----------------------------|--|
| | |
| NAME | MAJOR Choose a second major |

To assist you with subject information, we recommend you consult with your <u>CSE Course/Major Advisor</u> and refer to <u>Subject Search</u>. 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 | Study Period 1 - SP1 | Study Period 2 - SP2 |
|--------|---|---|
| | Degree Core: SC1101 Science Technology and Truth | Degree Option Core SC1102 Modelling Natural Systems PREREQ: MA1020 OR SC1109 Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009 |
| | Students who have not completed High School Maths Methods (or equivalent) must take Degree Core: MA1020 Preparatory Math* *This subject is equivalent to QLD-Maths Methods from high school. OR Elective - if student has completed high school level | Major Core: BS1001 Introduction to Biological Processes |
| | Maths Methods or equivalent | |
| | Major Core: BM1000 Introductory Biochemistry and Microbiology PREREQ: CH1020 OR SENIOR CHEMISTRY | Major Core: |
| | Major Core: | |

SP3 (Jan-Feb)

Students who have not completed High School Chemistry (or equivalent) must take

Degree Core: CH1020 Preparatory

Chemistry#

#This subject is equivalent to chemistry from high school.

OR

Elective - if student has completed high school level Chemistry or equivalent

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

| Year 2 | Study Period 1 - SP1 | Study Period 2 - SP2 |
|--------|--|---|
| | Degree Option Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MA1000 OR MATHS B OR EQUIVALENT OR SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS | Degree Core <u>Skill-List 2</u> : Subjects available across a number of study periods/trimesters, see list for full availabilities. |
| | Major Core: BC2013 Principles of Biochemistry PREREQ: 18CP LEVEL 1 SUBJECTS WHICH INCLUDES BM1000 AND BS1001 | Major Core: <u>BC2023</u> Molecular Genetics PREREQ: 18CP LEVEL 1 SUBJECTS INCLUDING BM1000 |
| | Major Core: | Major Core: BC2024 Cell Biology PREREQ: BM1000 AND 18CP LEVEL 1 SUBJECTS |
| | Major Core: | Major Core: |

| | Study Period 1 - SP1 | Study Period 2 - SP2 |
|-----|---|---|
| | Degree Option Core: | |
| | <u></u> | essional Placement CTS AND BE ENROLLED IN THEIR FINAL YEAR OF STUDY |
| | | OR |
| | SC5008 Professional Placement – Prior approval required | |
| | | OR |
| m | SC3901 Special Topic 1– Prior approval required | |
| | All available in multiple study periods | |
| Yea | Major Core: <u>BC3101</u> Genes, Genomes, and Development | Major Core: BC3201 Bioengineering |
| | PREREQ: BC2023 | PREREQ: BC2013 AND BC2023 |
| | Major Core: BC3102 Molecular Basis of Disease PREREQ: BC2013 AND BC2024 | Elective <u>BC3203</u> Bioinformatics - Recommended PREREQ: SC2202/SC2209 OR MA2405 OR (BC3101 AND HS2402) |
| | Major Core: | Major Core: |
| | Major Core: | |

Further Degree Options:

| Skill-List 2: | | | |
|---|---|--|--|
| Study Period 1 – SP1 | Study Period 2 – SP2 | | |
| MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003 | CH2103 Analytical Chemistry – TSV only PREREQ: CH1001 OR CH1011 | | |
| MA2830 Data Visualisation | EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS | | |
| SC3010 Sensors and Sensing for Scientists PREREQ: SC2202/SC2209 | MA2210 Linear Algebra PREREQ: MA1003 | | |

| Trimester 3 (Sept-Dec) | |
|----------------------------------|--|
| <u>CP2404</u> Database Modelling | |

ADDITIONAL COURSE RULES

A maximum of 30 credit points may be taken at Level 1.

A minimum of 18 credit points of science subjects must be taken at Level 3 or higher.

ADDITIONAL COURSE REQUIREMENTS

Some majors require attendance in intensive or mixed mode attendance subjects on either the Townsville or Cairns campus. If students must attend intensive mode classes at a campus other than the one they are enrolled at, they are responsible for their own expenses.

Students who undertake this major and a second major of Aquaculture Science and Technology, Marine Biology or Zoology and Ecology will have BS1001 removed from the secondary major structure and replaced with a Level 1 subject elective.

COURSE PROGRESSION REQUISITES

Must successfully complete 18 credit points of Level 1 and 2 science subjects before attempting any Level 3 science subject

COURSE INCLUDES MANDATORY PROFESSIONAL PLACEMENT(S)

Yes

ADDITIONAL INFORMATION

<u>Bachelor of Science course handbook</u> <u>Molecular and Cell Biology major handbook</u>