

Bachelor of Science (Aquaculture Science and Technology) (Molecular and Cell Biology)

Useful study planning/enrolment resources:

- [Subject Search](#)
- [Academic Calendars](#)
- [Class Registration](#)
- [Enrolment Resources](#)

The information in the study planner is current at the time of creation may be subject to future change.

Attention International Student visa holders: To remain compliant with your enrolments requirements as a Student visa holder you are required to enrol in at least one On-Campus, Multi-Modal or WIL subject offering in each compulsory study period and you cannot enrol in more than one third (33%) of your total course load through online or distance learning. To complete your course within your CoE duration students must maintain sufficient subject enrolment.

If there are only Online subject offerings for you to select in a compulsory study period, contact enrolments@jcu.edu.au urgently for enrolment advice.

The College of Science and Engineering will be offering some subjects in Block 3 and Block 4 (see the [Academic Calendar](#) for Block 3 and 4 dates). International students must maintain enrolment in subjects across the whole Trimester 2 period (May - August) and can do this by enrolling in a combination of Block 3 and Block 4 subjects, and/or Trimester 2 subjects and full-time enrolment load in an academic year.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2025	SC1101:03 Science, Technology and Truth	MA1020:03 Preparatory Mathematics (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study)	SC1102:03 Modelling Natural Systems <i>PREREQ: MA1020 or MA1020 or High School Mathematics or equivalent</i> OR SC1109:03 Modelling Natural Systems – Advanced^ <i>PREREQ: MA1000</i>
	Aquaculture Science and Technology Major BS1007:03 Introduction to Biodiversity	CH1020:03 Preparatory Chemistry (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study)	Aquaculture Science and Technology Major BS1001:03 Introduction to Biological Processes
	Molecular and Cell Biology Major BM1110:03 Molecules to Microbes	Molecular and Cell Biology Major BM1201:03 Energy Metabolism: Powering Life <i>PREREQ: Senior Chemistry or equivalent. Allow concurrent enrolment in CH1020</i>	

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

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	<p>SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109</i></p> <p>OR</p> <p>SC2209:03 Quantitative Methods in Science – Advanced <i>PREREQ: MA1003 and SC1109, plus 6 credit points of Level 1 subjects</i></p>	<p>Molecular and Cell Biology Major</p> <p>BM2230:03 DNA to Proteins <i>PREREQ: 18 credit points of level 1 subjects including BM1110 or BM1300</i></p>	<p>Aquaculture Science and Technology Major</p> <p>MI2031:03 Diagnosis of Bacterial Diseases in Aquaculture</p>
	<p>Aquaculture Science and Technology Major</p> <p>BS2470:03 Evolution <i>PREREQ: BZ1001 or BS1001 or BZ1005</i></p>	<p>Elective subject from List 2 (Skills Subjects)</p> <p><i>*Recommended- EV2502:03 Geographic Information Systems (BL4)</i></p>	<p>Molecular and Cell Biology Major</p> <p>BM2310:03 Drugs: Triggering System Responses <i>PREREQ: BM1201</i></p>
	<p>Aquaculture Science and Technology Major</p> <p>AQ2001:03 Introduction to Aquaculture <i>PREREQ: At least 12 credit points of Level 1 Science BS, BZ, CH, EA, EV, MA, MB, PH or SC subjects</i></p>		<p>Molecular and Cell Biology Major</p> <p>BM2330:03:03 Cell Biology: Signalling and Regulation <i>PREREQ: 18 credit points of level 1 subjects including BM1110</i></p>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	Aquaculture Science and Technology Major AQ3002:03 Aquaculture: Feeds and Nutrition <i>PREREQ: At least 12 Credit points of Level 2 AQ, BC, BZ, BS, CH, EA, EV, MA, MB or PH science subjects and 3 credit points of level 2 Aquaculture subjects.</i>	Molecular and Cell Biology Major BM3230:03 Molecular Basis of Disease <i>PREREQ: BM1201 and BM2330</i>	SC3008:03 Professional Placement (TR1, TR2, TR3) <i>PREREQ: 12 credit points of second year subjects. Restricted to students with an approved placement</i> OR SC3003:03 Science Research Internship (TR1, TR2, TR3)* <i>PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC science level 2 subjects and a GPA of 5.5</i> <i>*Students must source a supervisor for their internship before enrolment</i>
	Aquaculture Science and Technology Major AQ3003:03 Aquaculture: Propagation (TR1) <i>PREREQ: AQ2001 and at least 12 credit points of Level 2 AQ, BC, BZ, BS, CH, EA, EV, MA, MB or PH science subjects and 3 credit points of level 2 aquaculture subjects.)</i> OR AQ3004:03 Aquaculture: Stock Improvement (BL4) <i>PREREQ: AQ2001 and at least 12 Credit points of Level 2 AQ, BC, BZ, BS, CH, EA, EV, MA, MB or PH science subjects and 3 credit points of level 2 Aquaculture subjects.</i>	BLOCK 3 (May-Jun)	Molecular and Cell Biology Major BM3330:03 Synthetic Biology and Bioengineering <i>PREREQ: BM1201 and BM2230</i>
	Molecular and Cell Biology Major BM3130:03 Genes, Genomes, and Development <i>PREREQ: BM2230</i>		Select 3 credit points of any Level 1, 2, 3 or 5 Subjects

COURSE HANDBOOK

[Bachelor of Science](#)

[Aquaculture Science and Technology Major](#)

[Molecular and Cell Biology Major](#)