

## Bachelor of Science (Molecular and Cell Biology)

Useful study planning/enrolment resources:

[Course and Subject Handbook](#)

[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 you are receiving US Federal Aid,** there are further compliance considerations. Please contact [financialaid@jcu.edu.au](mailto:financialaid@jcu.edu.au) to confirm compliance of your subject selections.

**Student Resources:** If you require advice about your study plan, choosing electives, or which subjects to enrol in, please contact your major advisor or degree coordinator ([CSE Course and Major Advisors](#)). For information on available elective subject options please also refer to the Study Area guide ([2026 JCU STUDY AREA GUIDE — College of Science & Engineering](#)).

Your plan may include subjects labelled with **\*Intensive on-campus requirements**. These subjects involve mandatory on-campus or fieldwork attendance with extended hours over a dedicated face-to-face period. Please check the face-to-face dates for the subject in the [subject handbook](#) and do not enrol in subjects with overlapping face-to-face dates. For more information, see the CSE Student Guide to Succeeding in Trimester 2 Intensives on the CSE [Student Resources](#) webpage.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026			MA1020:03 Preparatory Mathematics (or any Level 1, 2, 3 or 5 subject if already satisfied via previous study)
			Elective <b>OR</b> Second Major Subject <i>(Depending on chosen structure)</i>
			Elective <b>OR</b> Second Major Subject <i>(Depending on chosen structure)</i>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	CH1020:03 Preparatory Chemistry (or any Level 1, 2, 3 or 5 subject if already satisfied via previous study)	<b>Major</b> BM1201:03 Energy Metabolism: Powering Life <i>PREREQ: Senior Chemistry or equivalent, allow concurrent enrolment in CH1020</i>	SC1102:03 Modelling Natural Systems <i>PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent</i> <b>OR</b> SC1109:03 Modelling Natural Systems-Advanced <sup>^</sup> <i>PREREQ: MA1000 or MA1009</i>
	SC1101:03 Science, Technology and Truth	Elective subject from <a href="#">List 1 (Breadth Subjects)</a> <i>*Recommended – CH1001 Chemistry: A Central Science</i> <i>PREREQ: BR0301, CH1020, CH0020 or EG1010 or High School Senior Chemistry or equivalent</i> <b>OR</b> Second Major Subject (Depending on chosen structure)	<b>Major</b> BM2330:03 Cell Biology: Signalling & Regulation <i>PREREQ: 18 credit points of Level 1 subjects including BM1110 or BM1000 or BS1001</i>
	<b>Major</b> BM1110:03 Molecules to Microbes		Elective <b>OR</b> Second Major Subject (Depending on chosen structure)

<sup>^</sup>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
2028	SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109</i> <b>OR</b> SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: MA1003 and ((SC1109 plus 6 credit points of other Level 1 subjects) or admission in 116409)</i>	<b>Major</b> BM2230:03 DNA to Proteins <i>PREREQ: 18 credit points of Level 1 subjects including BM1110 or BM1300 or BM1000</i>	<b>Major</b> BM2310:03 Drugs: Triggering System Responses <i>PREREQ: BM1201</i>
	Elective subject from <a href="#">List 1 (Breadth Subjects)</a> <b>OR</b> Second Major Subject (Depending on chosen structure)	Elective <b>OR</b> Second Major Subject (Depending on chosen structure)	<b>Major</b> BM3330:03 Synthetic Biology and Bioengineering <i>PREREQ: (BM1201 or BC2013) and (BM2230 or BC2023)</i>
	Elective <b>OR</b> Second Major Subject (Depending on chosen structure)		Select 3 credit points of <a href="#">List 2 (Skills Subjects)</a>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2029	<b>Major</b> BM3130:03 Genes, Genomes and Development <i>PREREQ: BM2230</i>	SC3008:03 Professional Placement (TR1, TR2, TR3) <i>PREREQ: 12 credit points of second year subjects</i> <b>OR</b> SC3003:03 Science Research Internship* (TR1, TR2, TR3) <i>PREREQ: 15 credit points of Science Level 2 subjects plus a GPA of 5.5 or above</i> <i>*Students must source a supervisor for their internship before enrolment</i>	
	Elective <b>OR</b> Second Major Subject <i>(Depending on chosen structure)</i>	<b>Major</b> BM3230:03 Molecular Basis of Disease <i>PREREQ: (BM1201 or BC2013) and (BM2330 or BC2024)</i>	
	Select 3 credit points of any Level 1, 2, 3 or 5 subjects		

**COURSE HANDBOOK**

[Bachelor of Science](#)

[Molecular and Cell Biology Major](#)