

Bachelor of Science (Zoology and Ecology) & (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 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)
			Zoology and Ecology Major BS1001:03 Introduction to Biological Processes

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	SC1101:03 Science, Technology and Truth	CH1020:03 Preparatory Chemistry (or any Level 1, 2, 3 or 5 subject if already satisfied via previous study)	SC1102:03 Modelling Natural Systems <i>PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent</i> OR SC1109:03 Modelling Natural Systems-Advanced^ <i>PREREQ: MA1000 or MA1009</i>
	Zoology and Ecology Major BS1007:03 Introduction to Biodiversity	Molecular and Cell Biology Major BM1201:03 Energy Metabolism: Powering Life <i>PREREQ: Senior Chemistry or equivalent, allow concurrent enrolment in CH1020</i>	Zoology and Ecology Major BS2460:03 Fundamentals of Ecology <i>PREREQ: 6 credit points of level 1 or 2 BZ/BS or EV subjects</i>
	Molecular and Cell Biology Major BM1110:03 Molecules to Microbes		Molecular and Cell Biology Major BM2330:03 Cell Biology: Signalling & Regulation <i>PREREQ: 18 credit points of Level 1 subjects including BM1110 or BM1000 or BS1001</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
2028	SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109</i> OR 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>	Zoology and Ecology Major BZ2490:03 Toolkit for the Field Biologist <i>*Intensive on-campus requirements</i> <i>PREREQ: SC2202 or SC2209 or SC5202 or SC5502</i>	Molecular and Cell Biology Major BM2310:03 Drugs: Triggering System Responses <i>PREREQ: BM1201</i>
	Zoology and Ecology Major BS2470:03 Evolution <i>PREREQ: BZ1001 or BS1001 or BZ1005</i>	Molecular and Cell Biology Major BM2230:03 DNA to Proteins <i>PREREQ: 18 credit points of Level 1 subjects including BM1110 or BM1300 or BM1000</i>	Molecular and Cell Biology Major BM3330:03 Synthetic Biology and Bioengineering <i>PREREQ: (BM1201 or BC2013) and (BM2230 or BC2023)</i>
	Select 3 credit points of List 2 (Skills Subjects)		Select 3 credit points of any Level 1, 2, 3 or 5 subjects

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2029	<p>Zoology and Ecology Major BZ3061:03 Behavioural Ecology (TR1) <i>PREREQ: 6 credit points of Level 2 Science</i></p> <p>OR BZ3745:03 Tropical Entomology (TR2) <i>*Intensive on-campus requirements</i> <i>PREREQ: (SC2202 or SC5202 or SC2209 or BZ2001 or BS2001 or AG2001) and (BZ1006 or BS1007 or BZ1007 or ZL1001 or BZ1004 or AG1004)</i></p>	<p>SC3008:03 Professional Placement (TR1, TR2, TR3) <i>PREREQ: 12 credit points of second year subjects</i></p> <p>OR 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></p>	
	<p>Zoology and Ecology Major BZ3220:03 Population and Community Ecology <i>PREREQ: (SC2202 or SC5202 or SC2209 or BS2001 or BZ2001 or AG2001) and (BS2460 or MB2060 or 3 credit points of Level 2 BZ)</i></p>	<p>Zoology and Ecology Major BZ3230:03 Ecological Research Methods <i>*Intensive on-campus requirements</i> <i>PREREQ: (SC2202 or SC2209 or BS2001 or BZ2001) and (BS2460 or BZ2490 or BZ2440 or BZ2880)</i></p> <p>OR BZ3001:03 Field Studies in the Equatorial Tropics: Borneo <i>*Intensive on-campus requirements</i> <i>PREREQ: (SC2202 or SC2209 or BS2001 or BZ2001) and (BS2460 or BZ2490 or BZ2440 or BZ2880)</i> <i>Prior Approval</i></p>	
	<p>Molecular and Cell Biology Major BM3130:03 Genes, Genomes and Development <i>PREREQ: BM2230</i></p>	<p>Molecular and Cell Biology Major BM3230:03 Molecular Basis of Disease <i>PREREQ: (BM1201 or BC2013) and (BM2330 or BC2024)</i></p>	

COURSE HANDBOOK

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