Bachelor of Advanced Science

Bioinformatics

Aquaculture Science and Technology

2027 ENTRY

Useful study planning / enrolment resources

Course and Subject Handbook	Academic Calendars	Class Registration	Enrolment Resources

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 (JCU STUDY AREA GUIDE — College of Science & Engineering).

Intensive on-campus requirements: Subjects labelled with *Intensive on-campus requirements 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.

How to read this planner

PREREQ Prerequisite information **ONLINE** Online offering **PLACEMENT** Placement requirement **INTENSIVE** Intensive on-campus requirement

2027

TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
SC1101:03 Science, Technology and Truth	MA1000:03 Mathematical Foundations **PREREQ:** MA1020 or MA0020 or BR0202 or High school subjects: Mathematical Methods or Specialist Mathematics (or equivalent such as Maths B or Maths C)	MA1003:03 Mathematical Techniques **PREREQ:** MA1000 or MA1011 or MA1009
Aquaculture Science and Technology Major BS1007:03 Introduction to Biodiversity	CH1020:03 Preparatory Chemistry **OR** Any Level 1, 2, 3 or 5 subject if already satisfied via previous study If you have satisfied the Chemistry requirement via previous study, please contact enrolments@jcu.edu.au.	SC1109:03 Modelling Natural Systems-Advanced **PREREQ:** MA1000 or MA1009
Bioinformatics Major CP1401:03 Problem Solving and Programming I		**Bioinformatics Major** BS1001:03 Introduction to Biological Processes

2028

TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
SC2209:03 Quantitative Methods in Science-Advanced **PREREQ:** MA1003 and (SC1109 plus 6 credit points of other Level 1 subjects) or admission in 116409	Select 3 credit points of subjects from **List 1** **(Advanced Skills Subjects)**	**Bioinformatics Major** BM2330:03 Cell Biology: Signaling & Regulation **PREREQ:** 18 credit points of Level 1 subjects including BM1110 or BM1000 or BS1001
Aquaculture Science and Technology Major BS2470:03 Evolution **PREREQ:** BZ1001 or BS1001 or BZ1005	**Bioinformatics Major** BM2230:03 DNA to Proteins **PREREQ:** 18 credit points of Level 1 subjects including BM1110 or BM1300 or BM1000 or BS1001	**Bioinformatics Major** BM2331:03 Bioinformatics I: Decoding DNA **PREREQ:** BM1110 or BS1001 **ONLINE**
Aquaculture Science and Technology Major AQ2001:03 Introduction to Aquaculture **PREREQ:** At least 6 credit points of Level 1 science BS, BZ, CH, EA, EV, MA, MB, PH, SC or TV subjects		**Aquaculture Science and Technology Major** MI2031:03 Diagnosis of Bacterial Diseases in Aquaculture ***Subject Quota**

2029

TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
Bioinformatics Major BM3130:03 Genes, Genomes and Development **PREREQ:** BM2230 **OR** BZ3450:03 Ecological and Conservation Genetics **PREREQ:** BS2470 **INTENSIVE** Offered in TR2	**Aquaculture Science and Technology Major** AQ3015:03 Sustainable Aquaculture **PREREQ:** At least 6 credit points of Level 2 AQ, BC, BZ, CH, EA, EV, MA, MB, MI, PH, SC or TV science subjects including 3 credit points of Level 2 Aquaculture subjects **INTENSIVE**	SC3003:03 Science Research Internship **PREREQ:** Admission to BAdvSc plus 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC Science Level 2 subjects **OR** SC3008:03 Professional Placement **PREREQ:** Students must have successfully completed 12 second year credit points
Aquaculture Science and Technology Major AQ3002:03 Aquaculture: Feeds and Nutrition **PREREQ:** At least 6 credit points of Level 2 AQ, BC, BZ, CH, EA, EV, MA, MB, MI, PH, SC or TV science subjects including 3 credit points of Level 2 Aquaculture subjects	**Aquaculture Science and Technology Major** Select 3 credit points of any Level BM, CH, CP, EA, EG, EV, MA or PH subjects	**Bioinformatics Major** BM3331:03 Bioinformatics II: Mastering Big Genomic Data **PREREQ:** BM2331 and SC2202 or SC2209 or MA2405 or BZ2001 or (BC3101 and HS2402)
Aquaculture Science and Technology Major AQ3003:03 Aquaculture: Propagation ***Subject Quota** **PREREQ:** AQ2001 AND at least 6 credit points of Level 2 science AQ, BC, BS, BZ, CH, EA, EV, MA, MB, PH, SC or TV subjects. **Only offered in odd years in TR1** **OR** AQ3004:03 Aquaculture: Stock Improvement **PREREQ:** At least 6 credit points of Level 2 AQ, BC, BZ, CH, EA, EV, MA, MB, MI, PH, SC or TV science subjects including 3 credit points of level 2 aquaculture subjects. **Only offered in even years in TR2** **INTENSIVE**		**Bioinformatics Major** MA3405:03 Statistical Data Mining for Big Data **PREREQ:** MA2405 or MA2000 or SC2202 or SC2209

Course Handbook

Bachelor of Advanced Science	Bioinformatics Major Aquaculture Science and Technology Major

Award Title	Bachelor of Advanced Science
Abbreviation	BAdvSc
Credit Points	72
AQF Level	Level 7 – Bachelor Degree
Location	Townsville Bebegu Yumba, Cairns Nguma-bada
Division	Academy
College	College of Science and Engineering
Expected Time to Complete	3 Years
Maximum Time to Complete	9 Years
Maximum Leave of Absence	3 Years
CRICOS Code	092515M