

## Bachelor of Advanced Science (Chemistry) (Data Science)

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 there are only Online subject offerings for you to select in a compulsory study period, contact [enrolments@jcu.edu.au](mailto:enrolments@jcu.edu.au) urgently for enrolment advice.

**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](#)).

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
<b>2026</b>	SC1101:03 Science Technology and Truth	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>	SC1109:03 Modelling Natural Systems-Advanced <i>PREREQ: MA1000 or MA1009</i>
	MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or BR0202 or High School Senior Mathematics equivalent</i>	<b>Chemistry Major</b> CH1001:03 Chemistry: The Central Science <i>PREREQ: BR0301, CH1020, CH0020 or EG1010 or High School Senior Chemistry</i>	<b>Data Science Major</b> MA1580:03 Foundations of Data Science
	CH1020:03 Preparatory Chemistry (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study) <i>*Students studying Data Science must select CP1401</i>		<b>Chemistry Major</b> CH1002:03 Chemistry: Principles and Applications <i>PREREQ: CH1001 or CH1011 and allow concurrent for CH1011 and CH1001</i>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: SC1109 and MA1003 plus 6 credit points of other Level 1 subjects</i>	<b>Chemistry Major</b> CH2310:03 Organic Chemistry <i>PREREQ: CH1001 and CH1002</i>	<b>Chemistry Major</b> CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 or CH1011</i>
	<b>Chemistry Major</b> CH2210:03 Inorganic Chemistry <i>PREREQ: CH1001 and CH1002</i>	<b>Data Science Major</b> CP1404:03 Programming II <i>PREREQ: CP1801 or CP1401 or CP1200 or EG1002 or CP2200 or SC1201</i>	<b>Data Science Major</b> MA2405:03 Advanced Statistical Modelling <i>PREREQ: MA1401 or BZ2001 or MA2401 or SC2202 or SC2209 and MA1000</i>
		<b>Data Science Major</b> Elective from <b>List 1</b> <i>*Students must select MA2211 (PREREQ: Maths B or MA1020 or MA0020) OR MA2830</i>	<b>Data Science Major</b> MA3405:03 Statistical Data Mining for Big Data <i>PREREQ: MA2405 or MA2000 or SC2202 or SC2209</i>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2028	<b>Chemistry Major</b> CH3210:03 Applications of Inorganic Chemistry <i>PREREQ: CH2210</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 AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC science level 2 subjects</i> <i>*Students must source a supervisor for their internship before enrolment</i>	<b>Chemistry Major</b> CH3110:03 Special Topics in Analytical Chemistry <i>PREREQ: CH2103</i>
	<b>Data Science Major</b> MA3831:03 Natural Language Processing, Web Scraping and Large Data Processing <i>PREREQ: CP1404 and MA3405</i>	<b>Data Science Major</b> MA3832:03 Neural Network and Deep Learning <i>PREREQ: MA3405 or MA5405 and CP1404</i> <b>OR</b> MA3212:03 Optimisation and Operations Research <i>PREREQ: MA2000</i>	<b>Chemistry Major</b> CH3310:03 Special Topics in Organic Chemistry <i>PREREQ: CH2310</i>
	Select 3 credit points of subjects from <b>List 1 (Advanced Skills Subjects)</b> <i>*MA2000 recommended to enable selection of alternate core MA3212</i>		<b>Data Science Major</b> Elective from <b>List 1</b> <i>*Students studying Data Science as a single major must select MA2210 (PREREQ: MA1000) OR CP2404</i>

## COURSE HANDBOOK

[Bachelor of Advanced Science](#)

[Chemistry Major](#)

[Data Science Major](#)