

Bachelor of Advanced Science MAJOR Chemistry

This study plan should be used as a general guide for your course. We recommend you consult with your [CSE Course/Major Advisor](#) and particularly if your intended enrolment varies from this plan.

The information in the study plan is current at the time of creation and may be subject to future change. If you would prefer a part-time study plan, please adjust the below study planner; reviewing subject prerequisites to ensure you are on track for course completion.

Useful study planning/enrolment resources:

To search for information on subjects: [Subject Search](#)

To register for your classes: [Class Registration](#)

For important dates check: [Academic Calendars](#)

Further enrolment resources: [Enrolment Resources](#)

	STUDY PERIOD 1	STUDY PERIOD 2
Year 1	Course SC1101:03 Science Technology and Truth	Course SC1109:03 Modelling Natural Systems-Advanced ^ <i>PREREQ: MA1000 or MA1009</i>
	Course MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>	Course MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>
	Major CH1001:03 Chemistry: A Central Science <i>PREREQ: CH0020, CH1020 OR EG1010 OR SENIOR CHEMISTRY</i>	Major CH1002:03 Chemistry: Principles & Applications <i>PREREQ: CH1001 OR CH1011</i>
	Elective <i>Provided CH1020: Preparatory Chemistry Is already satisfied</i>	Elective

Missing high school chemistry and want to study a CHEMISTRY MAJOR with us? Here are some options to catch up:

<p>Option 1</p> <p>JCU's Certificate of Higher Ed has an online subject, CH0020 that is available before the start of your degree. Passing this subject will allow you to enrol in CH1001 in SP1.</p>	<p>Option 2:</p> <p>Take CH1020: Preparatory Chemistry as part of your degree and complete your degree over four years instead of three. Contact the chemistry academic advisor for a study plan. Murray.Davies@jcu.edu.au</p>
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Year 2	STUDY PERIOD 1	STUDY PERIOD 2
	Course SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: MA1003 and SC1109 plus 6 credit points of Level 1 subjects</i>	Major CH2310:03 Synthesis and Mechanism in Organic Chemistry <i>PREREQ: CH1001 and CH1002</i>
	Major CH2210:03 Inorganic Chemistry <i>PREREQ: CH1001 and CH1002</i>	Major CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 or CH1011</i>
	Elective <i>RECOMMENDED: CH2042:03 Marine Chemistry & Chemical Ecology PREREQ: CH1001 or CH1011</i>	Elective <i>RECOMMENDED: BSc SKILL SUBJECT- List 2 (table below)</i>
	Elective	

Year 3	STUDY PERIOD 1	STUDY PERIOD 2
	Course Select Availability in Study Period 1, 2, 3, 7 or 11 SC3003:03 Science Research Internship <i>PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC Level 2 subjects</i> OR SC3008:03 Professional Placement <i>PREREQ: Students must have successfully completed 12 credit points of second year subjects. Enrolment is restricted to students with an approved placement</i>	
	Course Select an ADVANCED SKILL subject from List 1	
	Major CH3210:03 Applications of Inorganic Chemistry <i>PREREQ: CH2210</i>	Major CH3310:03 Special Topics in Organic Chemistry <i>PREREQ: CH2310</i>
	Elective <i>RECOMMENDED: CH3041:03 Environmental Chemistry PREREQ: CH1001 or CH1011</i>	Major CH3110:03 Special Topics in Analytical Chemistry <i>PREREQ: CH2103</i>
Elective	Elective	

ADVANCED SKILL SUBJECTS - LIST 1	
STUDY PERIOD 1	STUDY PERIOD 2
BS5260:03 Modelling Ecological Dynamics	BC5203:03 Advanced Bioinformatics
MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	CH5002:03 Research Skills and Communication in Chemistry (Advanced) <i>PREREQ: Satisfactory completion of 9 credit points of Level 2, 3 or 5 CH subjects</i>
^EA5409:03 Mineralogy and Geophysics	SC5502:03 Design and Analyses in Ecological Studies
^PH5014:03 Research Skills and Communication in Physics (Advanced)	

^Note: EA5409 and PH5014 are not offered in 2023

BSc SKILL SUBJECTS - LIST 2	
STUDY PERIOD 1	STUDY PERIOD 2
MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 OR CH1011</i>
MA2830 Data Visualisation	EV2502:03 Introduction to Geographic Information Systems <i>PREREQ: At least 12 credit points of Level 1 subjects</i>
SC3010:03 Sensors and Sensing for Scientists <i>PREREQ: BZ2001 or SC2202 or SC2209 or SC2201</i>	MA2210:03 Linear Algebra <i>PREREQ: MA1003</i>
TRIMESTER 3	
CP2404:03 Database Modelling	

COURSE NOTES

A maximum of 30 credit points may be taken at Level 1.

A minimum of 18 credit points of science subjects must be taken at Level 3 or higher.

ADDITIONAL INFORMATION

[2023 Bachelor of Advanced Science Handbook](#)
[Chemistry Major](#)