

# Bachelor of Advanced Science MAJOR Chemistry

## MAJOR Choose a second major

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
<b>Year 1</b>		Course <b>MA1000:03</b> Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>
		Course <b>CH1020:03</b> Preparatory Chemistry or <b>Elective</b> (only if already satisfied via the previous study)
		<b>Second Major</b>
		<b>Second Major</b>

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

<p><b>Option 1</b></p> <p>JCU's <a href="#">Certificate of Higher Ed</a> 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><b>Option 2:</b></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. <a href="mailto:Murray.Davies@jcu.edu.au">Murray.Davies@jcu.edu.au</a></p>
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	STUDY PERIOD 1	STUDY PERIOD 2
<b>Year 2</b>	Course <b>SC1101:03</b> Science Technology and Truth	Course <b>SC1109:03</b> Modelling Natural Systems-Advanced ^ <i>PREREQ: MA1000 or MA1009</i>
	Major <b>CH1001:03</b> Chemistry: A Central Science <i>PREREQ: CH0020, CH1020 OR EG1010 OR SENIOR CHEMISTRY</i>	Course <b>MA1003:03</b> Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>
	Second Major	Major <b>CH1002:03</b> Chemistry: Principles & Applications <i>PREREQ: CH1001 OR CH1011</i>
	<b>Second Major</b>	Major <b>CH2103:03</b> Analytical Chemistry <i>PREREQ: CH1001 or CH1011</i>

	STUDY PERIOD 1	STUDY PERIOD 2
<b>Year 3</b>	Course <b>SC2209:03</b> Quantitative Methods in Science-Advanced <i>PREREQ: MA1003 and SC1109 plus 6 credit points of level 1 subjects</i>	Major <b>CH2310:03</b> Synthesis and Mechanism in Organic Chemistry <i>PREREQ: CH1001 and CH1002</i>
	Major <b>CH2210:03</b> Inorganic Chemistry <i>PREREQ: CH1001 and CH1002</i>	Major <b>CH3110:03</b> Special Topics in Analytical Chemistry <i>PREREQ: CH2103</i>
	Second Major	Major <b>CH3310:03</b> Special Topics in Organic Chemistry <i>PREREQ: CH2310</i>
	Second Major	Second Major

		STUDY PERIOD 1	STUDY PERIOD 2
<b>Year 4</b>	<p>Course</p> <p>Select Availability in Study Period 1, 2, 3, 7 or 11</p> <p><b>SC3003:03 Science Research Internship</b></p> <p><i>PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC Level 2 subjects</i></p> <p>OR</p> <p><b>SC3008:03 Professional Placement</b></p> <p><i>PREREQ: Students must have successfully completed 12 credit points of second year subjects.</i></p> <p><i>Enrolment is restricted to students with an approved placement</i></p>		
	<p>Course</p> <p>Select an <b>ADVANCED SKILL</b> subject-<b>List 1</b></p>		
	Major	<p><b>CH3210:03 Applications of Inorganic Chemistry</b></p> <p><i>PREREQ: CH2210</i></p>	
	Second Major		
Second Major			

## 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>
<sup>^</sup> EA5409:03 Mineralogy and Geophysics	SC5502:03 Design and Analyses in Ecological Studies
<sup>^</sup> PH5014:03 Research Skills and Communication in Physics (Advanced)	

<sup>^</sup>Note: EA5409 and PH5014 are not offered in 2023

### 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](#)