



# Bachelor of 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
Year 1		<b>Course</b> CH1020:03 Preparatory Chemistry <b>OR</b> Select 3 credit points of any level 1, 2, 3 or 5 subjects (if completed high school level Chemistry or equivalent)
		<b>Course</b> MA1020:03 Preparatory Mathematics <b>OR</b> Select 3 credit points of any level 1, 2, 3 or 5 subjects (if completed high school level Maths Methods or equivalent)
		<b>Second Major</b>
		Elective <b>OR</b> Second Major Subject (Depending on chosen structure)

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

### **Option 1**

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.

### **Option 2:**

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](mailto:Murray.Davies@jcu.edu.au)

	STUDY PERIOD 1	STUDY PERIOD 2
Year 2	<b>Course</b> SC1101:03 Science, Technology, and Truth	<b>Course</b> SC1102:03 Modelling Natural Systems <i>PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent</i> <b>OR</b> SC1109:03 Modelling Natural Systems - Advanced <i>PREREQ: MA1000 or MA1009</i>
	<b>Major</b> CH1001:03 Chemistry: A Central Science <i>PREREQ: CH1020 or EG1010 or High School Senior Chemistry</i>	<b>Major</b> CH1002:03 Chemistry: Principles & Applications <i>PREREQ: CH1001 or CH1011</i>
	<b>Second Major</b>	<b>Major</b> CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 or CH1011</i>
	<b>Second Major</b>	<b>Major</b> CH2310:03 Syntheses and Mechanism in Organic Chemistry <i>PREREQ: CH1001 and CH1002</i>

^Note: SC1109 is compulsory in the Advanced BSc Program and should be taken instead of SC1102 if you are considering that pathway.

	STUDY PERIOD 1	STUDY PERIOD 2
Year 3	<b>Course</b> SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or MA1020 or MA1000 or Mathematics B or equivalent</i> <b>OR</b> SC2209:03 Quantitative Methods in Science - Advanced <i>PREREQ: SC1109 and MA1003 plus 6 credit points of any level 1 subjects</i>	<b>Course</b> Select 3 credit points of subjects from <b>List 2</b>
	<b>Major</b> CH2210:03 Inorganic Chemistry <i>PREREQ: CH1001 and CH1002</i>	<b>Major</b> CH3110:03 Special Topics in Analytical Chemistry <i>PREREQ: CH2103</i>
	<b>Second Major</b>	<b>Major</b> CH3310:03 Special Topics in Organic Chemistry <i>PREREQ: CH2310</i>
	<b>Second Major</b>	<b>Second Major</b>

Year 4	STUDY PERIOD 1		STUDY PERIOD 2	
	<b>Course</b> SC3008:03 Professional Placement <i>PREREQ: 12 credit points of second year subjects and be enrolled in their final year of study within the College of Science and Engineering</i>			
	<b>Major</b> CH3210:03 Applications of Inorganic Chemistry <i>PREREQ: CH2210</i>			
	<b>Second Major</b>			
	<b>Second Major</b>			

BREADTH SUBJECTS - LIST 1		
STUDY PERIOD 1		STUDY PERIOD 2
BM1000:03 Introductory Biochemistry and Microbiology		BS1001:03 Introduction to Biological Processes
BS1007:03 Introduction to Biodiversity		<del>CH1002:03 Chemistry: Principles and Applications</del> <i>PREREQ: CH1001</i>
<del>CH1001:03 Chemistry: A Central Science</del>		EA1110:03 Evolution of the Earth
EG1000:03 Engineering 1		MA1003:03 Mathematical Techniques <i>PREREQ: MA1000</i>
EV1005:03 Environmental Processes and Global Change		MA1580:03 Foundations of Data Science
MA1000:03 Mathematical Foundation		PH1007:03 Advanced Stream Physics 2 <i>PREREQ: PH1005 OR (High School Physics and M</i>
PH1005:03 Advanced Stream Physics 1		
TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
CP1401:03 Problem Solving and Programming I CP1401:03 Problem Solving and Programming I- <i>EXTERNAL OFFERING</i>	CP1401:03 Problem Solving and Programming I- <i>EXTERNAL OFFERING</i>	CP1404:03 Programming II CP1404:03 Programming II- <i>EXTERNAL OFFERING</i>
	CP1404:03 Programming II- <i>EXTERNAL OFFERING</i>	

## SKILL SUBJECTS - LIST 2

STUDY PERIOD 1	STUDY PERIOD 2
MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	<del>CH2103:03 Analytical Chemistry</del> <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: SC2202 OR (SC2209 OR SC2201 OR BZ2001)</i>	MA2210:03 Linear Algebra <i>PREREQ: MA1003</i>

**TRIMESTER 3**

CP2404:03 Database Modelling  
 CP2404:03 Database Modelling-  
\*EXTERNAL OFFERING

### 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

[Bachelor of Science Handbook](#)

[Chemistry Major](#)