

Bachelor of 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](#)

Year 1	STUDY PERIOD 1	STUDY PERIOD 2
	Course SC1101:03 Science Technology and Truth	Course SC1102:03 Modelling Natural Systems <i>PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent</i> or SC1109:03 Modelling Natural Systems-Advanced ^ <i>PREREQ: MA1000 or MA1009</i> <i>^Note: SC1109 is compulsory in the Bachelor of Advanced Science and should be taken instead of SC1102 if you are considering switching to that pathway.</i>
	Course Select a BREADTH SUBJECT from List 1	Course Select a BREADTH SUBJECT from List 1
	Course MA1020:03 Preparatory Mathematics or Elective (only if already satisfied via previous study)	Major CH1002:03 Chemistry: Principles & Applications <i>PREREQ: CH1001 OR CH1011</i>
	Major CH1001:03 Chemistry: A Central Science <i>PREREQ: CH0020, CH1020 OR EG1010 OR SENIOR CHEMISTRY</i>	Elective <i>(provided chemistry already satisfied via previous study)</i>

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
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Year 2	STUDY PERIOD 1	STUDY PERIOD 2
	Course SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109</i> or SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: MA1003 and SC1109 plus 6 credit points of level 1 subjects</i>	Course Select a SKILL SUBJECT from List 2 <i>Subjects are available across a number of study periods/trimesters, see List 2 for full availabilities.</i>
	Major CH2210:03 Inorganic Chemistry <i>PREREQ: CH1001 and CH1002</i>	Major CH2310:03 Syntheses and Mechanism in Organic Chemistry <i>PREREQ: CH1001 and CH1002</i>
	Elective <i>RECOMMENDED: CH2042:03 Marine Chemistry & Chemical Ecology PREREQ: CH1001 or CH1011</i>	Major CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 and CH1011</i>
	Elective	Elective

Year 3	STUDY PERIOD 1	STUDY PERIOD 2
	Course SC3008:03 Professional Placement Select Availability in Study Period 1, 2, 3, 7 or 11 <i>PREREQ: Students must have successfully completed 12 credit points of second year subjects.</i> <i>Enrolment is restricted to students with an approved placement</i>	
	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
		Elective

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		CH1002:03 Chemistry: Principles and Applications PREREQ: CH1001
CH1001:03 Chemistry: A Central Science		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>		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: 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- <i>*EXTERNAL OFFERING</i>

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 Science Handbook](#)
[Chemistry Major](#)