JAMES COOK UNIVERSITY AUSTRALIA

The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

# RECOMMENDED STUDY PLAN 2022

DEGREE Bachelor of Advanced Science MAJOR Chemistry (CHY)

NAME _____ MAJOR Choose a second major

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to Subject Search. If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

| | Study Period 1 - SP1 | Study Period 2 - SP2 |
|---|---|---|
| Year 1 | **Degree Core:** SC1101 Science Technology and Truth | **Degree Core:** SC1109 Modelling Natural Systems-Advanced<br>**PREREQ: MA1000 OR MA1009** |
| | **Degree Core:** MA1000 Mathematical Foundations<br>**PREREQ: MA1020 OR MATHEMATICS B OR MATHS C** | **Degree Core:** MA1003 Mathematical Techniques<br>**PREREQ: MA1000 OR MA1011 OR MA1009** |
| | **Major Core:** CH1001 Chemistry: A Central Science<br>**PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY** | **Major Core:** CH1002 Chemistry: Principles & Applications<br>**PREREQ: CH1001 OR CH1011** |
| | **Major Core:** | |

| **SP3 (Jan-Feb)** |
|---|
| Students who have not completed High School Chemistry (or equivalent) must take<br>**Degree Core:** CH1020 Preparatory Chemistry #<br>*# This subject is equivalent to chemistry from high school.*<br>*(or any Level 1, 2, 3 or 5 subject if already satisfied via previous study)* |

| | Study Period 1 - SP1 | Study Period 2 - SP2 |
|---|---|---|
| Year 2 | SC2209 Quantitative Methods in Science-Advanced<br>**PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS** | **Major Core:** CH2310 Syntheses and Mechanism in Organic Chemistry<br>**PREREQ: CH1001 AND CH1002** |
| | **Major Core:** CH2210 Syntheses and Mechanism in Inorganic Chemistry<br>**PREREQ: CH1001 AND CH1002** | **Major Core:** CH2103 Analytical Chemistry<br>**PREREQ: CH1001** |
| | **Major Core:** | **Major Core:** |
| | **Major Core:** | **Major Core:** |

| Year 3 | Study Period 1 - SP1 | Study Period 2 - SP2 |
|---|---|---|
| | **Degree Option Core:**<br>SC3008 Professional Placement<br>**PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS**<br>**OR**<br>SC3003 Science Research Internship<br>**PREREQ: 15CP OF AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH OR SC SCIENCE LEVEL 2 SUBJECTS**<br>*All available in multiple study periods* | |
| | **Degree Core List 1:** Advanced Skill Subjects | |
| | **Major Core:** CH3210 Applications of Inorganic Chemistry<br>**PREREQ: CH2210** | **Major Core:** CH3110 Special Topics in Analytical Chemistry<br>**PREREQ: CH2103** |
| | **Major Core:** | **Major Core:** CH3310 Special Topics in Organic Chemistry<br>**PREREQ: CH2310** |
| | **Major Core:** | **Major Core:** |

**Further Degree Options:**

| **Degree Core List 1: Advanced Skill Subjects** | |
|---|---|
| **Study Period 1 – SP1** | **Study Period 2 – SP2** |
| BS5260 Modelling Ecological Dynamics | BC5203 Advanced Bioinformatics |
| MA2000 Mathematics for Scientists and Engineers | SC5502 Design and Analyses in Ecological Studies |
| *EA5409 Mineralogy and Geophysics – Not currently offered* | CH5002 Research Skills and Communication in Chemistry (Adv) |
| | *PH5014 Research Skills and Communication in Physics (Advanced) – Not currently offered* |

## ADDITIONAL COURSE RULES

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 COURSE REQUIREMENTS

Some majors require attendance in intensive or mixed mode attendance subjects on either the Townsville or Cairns campus. If students must attend intensive mode classes at a campus other than the one they are enrolled at, they are responsible for their own expenses.

## COURSE PROGRESSION REQUISITES

Must successfully complete 18 credit points of Level 2 science subjects before attempting any Level 5 science subject

## ADDITIONAL INFORMATION

Bachelor of Advanced Science course handbook
Chemistry major handbook