

## RECOMMENDED STUDY PLAN

Mid-Year Entry 2021

DEGREE Bachelor of Science MAJOR Chemistry (CHY) – TSV only after 1<sup>st</sup> Semester

NAME \_\_\_\_\_

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.

The College of Science and Engineering has implemented screening testing in this degree so that students who are suitably qualified can replace core preparatory subjects with elective subjects. The screening tests **must** be completed even if Senior Chemistry or Maths Methods (or equivalent) have been studied at secondary school.

Year 1	MID-YEAR ENTRY	Study Period 2 - SP2
		<b>Degree Core:</b> <u>CH1020</u> Preparatory Chemistry # # This core subject may be replaced by an elective if you pass the chemistry screening test (held during orientation week). The screening test needs to be completed even if Senior Chemistry (or equivalent) has been studied at secondary school.
		<b>Degree Core:</b> <u>MA1020</u> Preparatory Math* * This core subject may be replaced by an elective if you pass the maths screening test (held during orientation week). The screening test needs to be completed even if Maths Methods (or equivalent) has been studied at secondary school.
		<b>Degree Opt Core <u>Breadth-List 1</u>:</b>
		<b>Elective/Minor/2<sup>nd</sup> Major:</b>

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	<b>Degree Core:</b> <u>SC1101</u> Science Technology and Truth	<b>Degree Opt Core</b> <u>SC1102</u> Modelling Natural Systems PREREQ: MA1020 <b>OR</b> <u>SC1109</u> Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009
	<b>Degree Opt Core <u>Breadth-List 1</u>:</b>	<b>Major Core:</b> <u>CH1002</u> Chemistry: Principles & Applications PREREQ: CH1001 OR CH1011
	<b>Major Core:</b> <u>CH1001</u> Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	<b>Major Core:</b> <u>CH2103</u> Analytical Chemistry PREREQ: CH1001
	<b>Elective/Minor/2<sup>nd</sup> Major:</b>	<b>Elective/Minor/2<sup>nd</sup> Major:</b>

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

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	<b>Degree Core:</b> <u>SC2202</u> Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATH B OR EQUIVALENT <b>OR</b> <u>SC2209</u> Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	<b>Degree Opt Core <u>Skill-List 2:</u></b>
	<b>Major Core:</b> <u>CH2210</u> Syntheses and Mechanism in Inorganic Chemistry PREREQ: CH1001 AND CH1002	<b>Major Core:</b> <u>CH2310</u> Syntheses and Mechanism in Organic Chemistry PREREQ: CH1001 AND CH1002
	<b>Elective/Minor/2<sup>nd</sup> Major:</b> <u>CH2042</u> Marine Chem & Chemical Ecology-Recommended PREREQ: CH1001 OR CH1011	<b>Major Core:</b> <u>CH3110</u> Special Topics in Analytical Chemistry PREREQ: CH2103
	<b>Elective/Minor/2<sup>nd</sup> Major:</b> <u>CH2043</u> Medicinal Chem & Pharmaceutical Analysis - Recommended PREREQ: CH1001, CH1002	<b>Major Core:</b> <u>CH3210</u> Applications of Inorganic Chemistry PREREQ: CH2210

Year 4	Study Period 1 - SP1	MID-YEAR COMPLETION
	<b>Degree Core:</b> <u>SC3008</u> Professional Placement - available any SP	
	<b>Degree Core:</b> <u>SC3010</u> Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	
	<b>Major Core:</b> <u>CH3310</u> Special Topics in Organic Chemistry PREREQ: CH2310	
	<b>Elective/Minor/2<sup>nd</sup> Major:</b> <u>CH3041</u> Environmental Chemistry - Recommended PREREQ: CH1001 OR CH1011 OR EG1010	

### Further Degree Options:

<b>Breadth-List 1:</b>	
<b>Study Period 1 – SP1</b>	<b>Study Period 2 – SP2</b>
<p><u>CP1401</u> Problem Solving and Programming I  <b>OR</b>  <u>CP1404</u> Programming II  <b>PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201</b>  <i>both subjects available in SP1 and SP2 **</i></p>	
<u>BM1000</u> Introductory Biochemistry and Microbiology – TSV only <b>PREREQ: CH1020 OR SENIOR CHEMISTRY</b>	<u>BS1001</u> Introduction to Biological Processes
<u>BS1007</u> Introduction to Biodiversity –TSV only OR <u>BZ1006</u> Diversity of Life – CNS only	<u>EA1110</u> Evolution of the Earth
<u>EG1000</u> Engineering 1	<u>MA1003</u> Mathematical Techniques <b>PREREQ: MA1000 OR MA1011 OR MA1009</b>
<u>EV1005</u> Environmental Processes & Global Change	<u>PH1007</u> Advanced Stream Physics 2 – TSV only <b>PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)</b>
<u>MA1000</u> Mathematical Foundations <b>PREREQ: MA1020 OR MATHEMATICS B OR MATHS C</b>	
<u>PH1005</u> Advanced Stream Physics 1 <b>PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.</b>	

**\*\*CP1404 has been added to the structure from 2019. We would prefer if you would take CP1404.**

<b>Skill-List 2:</b>	
<b>Study Period 1 – SP1</b>	<b>Study Period 2 – SP2</b>
<u>CP2404</u> Database Modelling	<u>EV2502</u> Introduction to Geographic Information Systems <b>PREREQ: 12CP LEVEL 1 SUBJECTS</b>
	<u>MA2210</u> Linear Algebra <b>PREREQ: MA1003</b>