

# Bachelor of Science

## Major in Chemistry

### ENTRY REQUIREMENTS

<b>Assumed Knowledge</b>	For astronomy and astrophysics, mathematics, statistical data science and physics majors: HSC Mathematics Advanced (Band 4), or equivalent. If you haven't met the required minimum level of achievement (Band 4 or equivalent), you can undertake an alternative introductory unit of study in that area.
<b>Recommended Studies</b>	HSC Mathematics Advanced or equivalent, at least 2 units of science. For astronomy and astrophysics, and physics majors: HSC Physics. For mathematics major: HSC Mathematics Extension 1 (Band E2) or HSC Mathematics Extension 2, or equivalent.

### CORE ZONE

<b>Essential units = Each unit is 10 credit points.</b>
<b>Capstone unit = 10 credit points</b>
FOSE3000 Making Science Work for You and Society: Capstone
<b>Essential units = 20 credit points</b>
FOSE1000 Becoming a Scientist
FOSE2000 The Science Practitioner
<b>Statistics Elective units = 10 credit points</b>
<b>Complete 10 credit points from the following units</b>
STAT1103 Introduction to Psychological Design and Statistics
STAT1170 Introductory Statistics
STAT1371 Statistical Data Analysis
<b>Data and Computing Elective units = 10 credit points</b>
<b>Complete 10 credit points from the following options.</b>
<ul style="list-style-type: none"> <li>Students enrolling in Astronomy, Physics, Mathematics or Statistical Data Science majors must enrol in FOSE1030.</li> <li>Student enrolling in Biology, Biotechnology, Chemistry, Human Biology, Earth and Environmental Sciences, and Physiological Sciences major must enrol in FOSE1025.</li> <li>Students enrolling in double majors that requires both FOSE1025 and FOSE1030 can complete the other Data &amp; Computing unit not selected below in the Other Science - 20 credit points option set.</li> </ul>
FOSE1025 Scientific Computing
FOSE1030 Introduction to Python Programming
<b>Other Science Elective units = 20 credit points</b>
20 credit points from ASTR, BIOL, CHEM, EESC, ENVS, MATH, PHYS, PSYU, STAT, BMOL, MOLS, FOSE units at 1000 or 2000 level
<b>Elective unit - 10 credit points</b>
<b>Complete 10 credit points from the following PACE units</b>
MOLS3002 PACE: Engaging the Community in Science
MOLS3003 PACE: Molecular Sciences Project

### MAJOR

<b>Major requirements: 80 credit points</b>	
<b>Complete each unit below</b>	
CHEM1001	Foundations of Chemical and Biomolecular Sciences 1
CHEM1002	Foundations of Chemical and Biomolecular Sciences 2
CHEM2201	Analysis and Measurement
CHEM2401	Physical Chemistry I
CHEM2601	Synthesis
CHEM3202	Advanced Analysis and Measurement
CHEM3601	Advanced Synthesis
CHEM3801	Medicinal Chemistry

### FLEXIBLE ZONE

<b>Flexible Zone = 80 credit points</b>
You can use your flexible zone to enrol in any Undergraduate unit for which you meet the requisites. You may also use your flexible zone to complete a second major or minor(s)