

Academic Chair: [Lubomir Hnedkovsky](#)

Start Date: Semester 1 2025

Year 1 – 2025	Semester 1 Units		CP	Semester 2 Units		CP
		PEN100 Transitioning in Time and Space	3		CHE144 Foundations of Chemistry	3
		CHE140 Fundamentals of Chemistry or Elective*	3		CHE145 Introduction to Chemical Concepts	3
		MAS182 Introductory Calculus with Applications*	3		PEN152 Principles of Physics*	3
		MSP100 Career Learning: Managing Your Career	3		MAS161 Calculus and Matrix Algebra	3
	Total	12		Total	12	
Year 2 – 2026	Semester 1 Units		CP	Semester 2 Units		CP
		PEN201 Thermodynamics for Chemistry and Physics	3		MSP200 Building Employability Skills	3
		CHE207 Chemical Analysis	3		PEN200 The Quantum Realm	3
		PEN203 Scientific Computing and Visualisation	3		CHE205 Organic and Biological Chemistry I	3
		Elective	3		Elective	3
	Total	12		Total	12	
Year 3 – 2027	Semester 1 Units		CP	Semester 2 Units		CP
		CHE203 Molecular Reactivity	3		CHE300 Surface and Interface Phenomena	3
		MSP201 Real World Learning or MAS300 Quantitative Projects and Consulting	3		CHE301 Sustainable Industrial Chemistry	3
		Elective	3		Elective	3
		Elective			Elective	3
	Total	12		Total	12	

TOTAL CREDIT POINTS 72

Semester 1 notes	Semester 2 notes
<p>**Students who have not successfully completed ATAR Chemistry will need to undertake CHE140. If you have completed ATAR Chemistry you may wish to do CHE144 in Semester 1.</p> <p>*MAS182 is not necessary if you have Year12 Specialist Mathematics ATAR or equivalent. In that case you may wish to do MAS161 in Semester 1.</p>	<p>*Students who have not successfully completed ATAR Physics will need to undertake PEN120 General Physics prior to enrolling in PEN152</p>

Please note: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as outlined in the [Handbook](#). Students should note that due to unit prerequisites, commencing study in Semester 2 may extend the duration of the course. This information is correct as at 21/11/2024.