Academic Chair: Lubomir Hnedkovsky **Start Date:** Semester 1 2026

ATAR Pathway

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 – 2026	PEN100 Transitioning in Time and Space	3	CHE145 Introduction to Chemical Concepts	3
	CHE144 Foundations of Chemistry	3	PEN152 Principles of Physics*	3
	MAS182 Introductory Calculus with Applications*	3	MAS161Calculus and Matrix Algebra	3
	Elective/Discovery**	3	Elective/Discovery**	3
	Total	12	**Total**	12
Year 2 - 2027	**Semester 1 Units**	**CP**	**Semester 2 Units**	**CP**
	PEN201 Thermodynamics for Chemistry and Physics	3	PEN200 The Quantum Realm	3
	CHE207 Chemical Analysis	3	CHE205 Organic and Biological Chemistry I	3
	PEN203 Scientific Computing and Visualisation	3	Elective	3
	Elective	3	Elective	3
	Total	12	**Total**	12
Year 3 - 2028	**Semester 1 Units**	**CP**	**Semester 2 Units**	**CP**
	CHE203 Molecular Reactivity	3	CHE301 Sustainable Industrial Chemistry	3
	CHE300 Surface and Interface Phenomena	3	Elective	3
	MAS300 Quantitative Projects and Consulting	3	Elective	3
	Elective	3	Elective	3
	Winter Units	**CP**	**Summer Units**	**CP**
	Total	12	**Total**	12

TOTAL CREDIT POINTS 72

Semester 1 notes	Semester 2 notes
*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. **Students must complete 3 credit points of Discovery Study in their course.	*Students who have not successfully completed ATAR Physics will need to undertake PEN120 General Physics prior to enrolling in PEN152 **Students must complete 3 credit points of Discovery Study in their course.

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 21/10/2025.

Academic Chair: Lubomir Hnedkovsky **Start Date:** Semester 1 2026

No ATAR Pathway

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 – 2026	PEN100 Transitioning in Time and Space	3	CHE144 Foundations of Chemistry	3
	CHE140 Fundamentals of Chemistry	3	CHE145 Introduction to Chemical Concepts	3
	MAS182 Introductory Calculus with Applications*	3	PEN152 Principles of Physics*	3
	Elective/Discovery**	3	MAS161Calculus and Matrix Algebra	3
	Total	12	**Total**	12
	Semester 1 Units	**CP**	**Semester 2 Units**	**CP**
Year 2 - 2027	PEN201 Thermodynamics for Chemistry and Physics	3	PEN200 The Quantum Realm	3
	CHE207 Chemical Analysis	3	CHE205 Organic and Biological Chemistry I	3
	PEN203 Scientific Computing and Visualisation	3	Elective/Discovery**	3
	Elective	3	Elective	3
	Total	12	**Total**	12
	Semester 1 Units	**CP**	**Semester 2 Units**	**CP**
Year 3 - 2028	CHE203 Molecular Reactivity	3	CHE301 Sustainable Industrial Chemistry	3
	CHE300 Surface and Interface Phenomena	3	Elective	3
	MAS300 Quantitative Projects and Consulting	3	Elective	3
	Elective	3	Elective	3
	Total	12	**Total**	12

TOTAL CREDIT POINTS 72

Semester 1 notes	Semester 2 notes
*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. **Students must complete 3 credit points of Discovery Study in their course.	*Students who have not successfully completed ATAR Physics will need to undertake PEN120 General Physics prior to enrolling in PEN152 **Students must complete 3 credit points of Discovery Study in their course.

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