

# B1411 BSc (Physical Sciences) in Chemistry MJ-CHE (students with ATAR Chemistry)

Academic Chair: Assoc. Prof. Lubomir Hnedkovsky

Start Date: Semester 2 2025

Year 1 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
			CHE144 Foundations of Chemistry†	3
			CHE145 Introduction to Chemical Concepts	3
			MAS182 Introductory Calculus with Applications*	3
			PEN152 Principles of Physics‡	3
	Total		Total	12
Year 2 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	MAS161 Calculus and Matrix Algebra	3	PEN200 The Quantum Realm	3
	PEN100 Transitioning Through Time and Space	3	CHE205 Organic and Biological Chemistry I	3
	XXXXxx Spine/Discovery unit	3	Elective	3
	PEN203 Scientific Computing and Visualisation	3	Elective	3
	Total	12	Total	
Year 3 – 2027	Semester 1 Units	CP	Semester 2 Units	CP
	CHE207 Chemical Analysis	3	CHE300 Surface and Interface Phenomena	3
	PEN201 Thermodynamics for Chemistry and Physics	3	CHE301 Sustainable Industrial Chemistry	3
	CHE203 Molecular Reactivity	3	Elective	3
	Elective	3	Elective	3
	Total	12	Total	12
Year 4 – 2028	Semester 1 Units	CP	Semester 2 Units	CP
	MAS300 Quantitative Projects and Consulting	3		
	Elective	3		
	Elective	3		
	Elective	3		
	Total	12	Total	

**TOTAL CREDIT POINTS 72**

Semester 2 notes	Semester 1 notes
<p>†Students who have not successfully completed ATAR Chemistry will need to undertake CHE140 Fundamentals of Chemistry prior to enrolling in CHE144</p> <p>*MAS182 is not necessary if you have Year 12 Specialist Mathematics ATAR or equivalent. In that case you may wish to do MAS161 in Semester 2.</p> <p>‡Students who have not successfully completed ATAR Physics will need to undertake PEN120 General Physics prior to enrolling in PEN152</p>	<p>XXXXxx Spine/Discovery unit – must be a unit from outside the School of Mathematics, Statistics, Physics and Chemistry. A list of potential units will be available on the Murdoch University website or consult the Academic Chair regarding possible units</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 28/05/25