

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

Academic Chair: Assoc. Prof. Lubomir Hnedkovsky

Start Date: Semester 2 2026

Year	Semester 1 Units		Semester 2 Units	
		CP		CP
Year 1 – 2026			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 - 2027				
	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
	Elective/Discovery	3	Elective/Discovery	3
	PEN203 Scientific Computing and Visualisation	3	Elective/Discovery	3
	Total	12	Total	
Year 3 - 2028				
	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/Discovery	3
	Elective/Discovery	3	Elective/Discovery	3
	Total	12	Total	12
Year 4 - 2029				
	MAS300 Quantitative Projects and Consulting	3		
	Elective/Discovery	3		
	Elective/Discovery	3		
	Elective/Discovery	3		
	Total	12	Total	

TOTAL CREDIT POINTS 72

Semester 1 notes	Semester 2 notes
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.	*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. ‡Students who have not successfully completed ATAR Physics will need to undertake PEN120 General Physics prior to enrolling in PEN152

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 26/05/2026