

B1411 BSc (Physical Sciences) in Chemistry MJ-CHE (students without 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			CHE140 Fundamentals of Chemistry	3
			MAS182 Introductory Calculus with Applications*	3
			PEN152 Principles of Physics‡	3
			Elective/Discovery	3
		Total		Total 12
Year 2 - 2027				
	MAS161 Calculus and Matrix Algebra	3	CHE145 Introduction to Chemical Concepts	3
	PEN100 Transitioning Through Time and Space	3	PEN200 The Quantum Realm	3
	CHE144 Foundations of Chemistry	3	Elective or Spine/Discovery unit	3
	Elective or Spine/Discovery unit	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
	PEN203 Scientific Computing and Visualisation	3	CHE205 Organic and Biological Chemistry I	3
	CHE203 Molecular Reactivity	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 2 notes	Semester 1 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	<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>

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