

B1399 Bachelor of Science (ECS) (Major: Environmental Science and Management)

Academic Chair: [Dr Michael Hughes](#)

Start Date: Semester 2 2023

Major Prerequisites: Chemistry Background

Students who achieved a final scaled score of 50 percent or more in WACE Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

Year	Semester 1 Units		Semester 2 Units	
		CP		CP
Year 1 – 2023			BSC100 Building Blocks for Science Students	3
			ENV102 Foundations of the Environment	3
			CHE140 Fundamentals of Chemistry	3
			*MAS164 or Part I General Elective	3
		Total		Total 12
Year 2 – 2024				
			MSP200 Building Enterprise Skills (Spine)	3
			ENV241 Ecology	3
			Part II General Elective	3
			Part II General Elective	3
	Total	12		Total 12
Year 3 – 2025				
			MSP201 Real World Learning (Spine)	3
			ENV331 Environmental Management	3
			ENV332 Managing Wetlands and Water	3
			*ENV Specified Elective or Part II General Elective	3
	Total	12		Total 12
Year 4 – 2026				
		Total	12	

TOTAL CREDIT POINTS 72

***Note: Environmental Science and Management Specified Electives.** Students should select **one** specified elective group (see below) as a specialization and complete **9 points** (3 units) from the list of units in that group.

Specified elective group A – Environmental Science

Select 3 units from this list if you choose to specialize in Environmental Science

CHE144 Foundations of Chemistry – 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENV243 Water & Earth Science – 3 points
MURDOCH: S1-internal, S1-external

ENV242 Atmospheric & Climate Science – 3 points
MURDOCH: S1-internal, S1-external

ENV244 Oceanography & Marine Pollution – 3 points
MURDOCH: S2-internal

Group B – Environmental Management & Sustainability

Select 3 units from this list if you choose to specialize in Environmental Management & Sustainability

SUS100 Sustainable Development – 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENV278 Nature-based Tourism – 3 points
MURDOCH: S1-internal, S1-external

ENV245 Global & Regional Sustainability – 3 points
MURDOCH: S1-internal, S1-external

ENV334 Environmental Restoration – 3 points
MURDOCH: S1-internal, S1-external

ENV303 Geographic Information Systems for Environmental Management & Planning – 3 points
MURDOCH: S2-internal, S2-external

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Most Murdoch units are worth three credit points, with a total of 24 units making up the 72 points required to complete the degree. The BSc course is made up of the following components:

Course Core 15 Credit points

Major 24 Credit points total; the Environmental Science and Management major is made up of 15 Credit points of **Core** units to the major and 9 Credit points of **Specified Elective** units.

Murdoch Spine 9 Credit points. Units can be selected from those listed in the University Handbook published in the academic year the student intends to enrol in them.

General Electives or Options 24 Credit points. Part I General Electives can be selected from any 100 level unit; Part II General Electives can be selected from any 200-300 level units offered by the university, subject to unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major, co-major or minor. **Either** 1 additional major, 1 co-major, **or** 1-2 minors can be added to a BSc.

***MAS164** is not required for your course but is strongly recommended as a General Elective in your first semester if you have not completed ATAR level maths (eg, Maths applications).

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 17/05/2023.