

# Bachelor of Science (Environmental & Conservation Sciences) (Environmental Science & Management major)

Academic Chair: [Michael Hughes](#)

Start Date: Semester 1 2026

Year 1 – 2026	<b>Semester 1 Units</b>	<b>CP</b>	<b>Semester 2 Units</b>	<b>CP</b>
	*CHE140 Fundamentals of Chemistry	3	ENV102 Foundations of the Environment	3
	BIO103 Environmental Biology	3	MAS183 Statistical Data Analysis	3
	**ESM Specified Elective <i>or</i> ^Discovery Unit	3	^Discovery Unit <i>or</i> Part I General Elective	3
	§MAS164 <i>or</i> Part I General Elective	3	**ESM Specified Elective <i>or</i> Part I General Elective	3
	<b>Winter Units</b>		<b>Summer Units</b>	
	<b>Total</b>	12	<b>Total</b>	12
Year 2 - 2027	<b>Semester 1 Units</b>	<b>CP</b>	<b>Semester 2 Units</b>	<b>CP</b>
	ENV246 Protected Area Management & Planning	3	ENV241 Ecology	3
	**ESM Specified Elective	3	Part II General Elective	3
	**ESM Specified Elective <i>or</i> Part II General Elective	3	Part II General Elective	3
	Part II General Elective	3	**ESM Specified Elective	3
	<b>Winter Units</b>	<b>CP</b>	<b>Summer Units</b>	<b>CP</b>
	<b>Total</b>	12	<b>Total</b>	12
Year 3 – 2028	<b>Semester 1 Units</b>	<b>CP</b>	<b>Semester 2 Units</b>	<b>CP</b>
	#ECS302 Professional Placement in Environmental and Conservation Sciences <i>or</i> Part II General Elective	3	ENV331 Environmental Management	3
	**ESM Specified Elective <i>or</i> Part II General Elective	3	ENV332 Managing Wetlands and Water	3
	Part II General Elective	3	ENV328 Environmental Policy and Law	3
	Part II General Elective	3	**ESM Specified Elective <i>or</i> Part II General Elective	3
	<b>Winter Units</b>	<b>CP</b>	<b>Summer Units</b>	<b>CP</b>
	<b>Total</b>	12	<b>Total</b>	12

**TOTAL CREDIT POINTS 72**

## Environmental Science and Management major notes:

\*CHE140 is only required if weak or no high school (3A/3B) Chemistry. It is available in both S1 and S2.

§ MAS164 is not required but is recommended as a General Elective in your first semester if you have not completed ATAR level maths.

^Discovery unit – you need to complete one discovery unit. We recommend you do this in your first year, see the Murdoch University handbook for a list of discovery units available for Environmental and Conservation Sciences students.

# ECS302 is optional and not a self-enrolled unit – contact the unit coordinator.

\*\***Environmental Science and Management (ESM) Specified Electives** - select one specified elective group as a specialization and complete 12 points (4 units) from the list of units in that group.

§§ PHL211 is offered every second year, the next offering is in 2027, S2

### ESM Specified Elective Group A

- Select 4 units to specialise in Environmental Science*
- CHE144 Foundations of Chemistry (3 cp) S1 or S2
  - ECS200 Research Methods in Ecology (3 cp) S1
  - ENG221 Pollution and its Control (3 cp) S2
  - ENV242 Atmospheric & Climate Science (3 cp) S1
  - ENV243 Water & Earth Science (3 cp) S1
  - ENV244 Oceanography & Marine Pollution (3 cp) S2
  - ENV303 Geographic Information Systems for Environmental Management & Planning (3 cp) S2

### ESM Specified Elective Group B

- Select 4 units to specialise in Environmental Management & Sustainability*
- ECS200 Research Methods in Ecology (3 cp) S1
  - ENV245 Global & Regional Sustainability (3 cp) S1
  - ENV278 Recreation Ecology and Nature-based Tourism (3 cp) S1
  - ENV303 Geographic Information Systems for Environmental Management & Planning (3 cp) S2
  - ENV334 Environmental Restoration (3 cp) S1
  - §§PHL211 Environmental Justice (3 cp) S2
  - SUS100 Sustainable Development (3 cp) S1 or S2
  - SUS305 Economics of Sustainability (3 cp) S2

**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 04/11/2024.