B1399 Bachelor of Science (Environmental and Conservation Sciences)
(Marine Biology and Environmental Science and Management)

Academic Chair: Essie Rodgers (MB) & Michael Hughes (ESM) **Start Date:** Semester 1 2027

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 – 2027	CHE140 Fundamentals of Chemistry	3pts	**ESM Specified Elective	3pts
	BIO103 Environmental Biology	3pts	ENV102 Foundations of the Environment	3pts
	**MAS164 or Part I General Elective	3pts	MAS183 Statistical Data Analysis	3pts
	BIO180 Introduction to Marine Biology	3pts	Discovery Unit	3pts
	Winter Units	**CP**	**Summer Units**	**CP**
	Total	12pts	**Total**	12pts
Year 2 - 2028	**Semester 1 Units**	**CP**	**Semester 2 Units**	**CP**
	BIO254 Marine Botany	3pts	BIO244 Animal Diversity	3pts
	**ECS200 – Research Methods in Ecology	3pts	ENV241 Ecology	3pts
	ENV246 Protected Area Man. & Planning	3pts	ENV331 Environmental Management	3pts
	**ESM Specified Elective	3pts	ENV328 Environmental Policy and Law	3pts
	Winter Units	**CP**	**Summer Units**	**CP**
			**ENV201 Liveaboard Oceanography	
	Total	12pts	**Total**	12pts
Year 3 - 2029	**Semester 1 Units**	**CP**	**Semester 2 Units**	**CP**
	BIO377 Marine Ecology	3pts	ENV332 Managing Wetlands and Water	3pts
	**ESM Specified Elective	3pts	ENV301 Oceanography and Marine Pollution	3pts
	**ESM Specified Elective	3pts	BIO303 Marine Wildlife Populations & Management	3pts
	Part II General Elective	3pts	**BIO380 Aquaculture	3pts
	Winter Units	**CP**	**Summer Units**	**CP**
	**BIO393 Tropical Marine Biology			
	Total	12pts	**Total**	12pts

TOTAL CREDIT POINTS 72

Conservation and Wildlife Biology major notes:

Discovery Unit 3 credit points. Discovery unit – you need to complete one discovery unit, we recommend you do this in your first year of study. See the Murdoch University handbook (B1399) for a list of discovery units available for the BSc Environmental & Conservation Sciences.

Course Core 15 Credit points (Note-Students who achieved a final scaled score of 50 percent or more in Chemistry ATAR within the past three years should seek an exemption for CHE140 Fundamentals of Chemistry).

MB Major Core 24 Credit points. The Marine Biology major includes 18 Credit points of Core units and 6 Credit points from a **Marine Biology Specified Elective - two of the following: ECS200 – Research Methods in Ecology (S1); BIO380 – Aquaculture (S2); ENV331 – Environmental Management (S2); BIO393 – Tropical Marine Biology (Winter term); ENV201 Liveaboard Oceanography (Summer term).

ESM Major core- 24 credit points, including 12 credit points of core and 12 credit points of **(ESM) Specified Electives.**

****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.

ESM Specified Elective Group A	ESM Specified Elective Group B
Select 4 units from this list 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 • ENV301 Oceanography & Marine Pollution (3 cp) S2 • ENV303 Geographic Information Systems for Environmental Management & Planning (3 cp) S2	*Select 4 units from this list to specialise in 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 • SUS100 Sustainable Development (3 cp) S1 or S2 • SUS305 Economics of Sustainability (3 cp) S2 • PHL211 Environmental Justice (3 cp) S2 (offered every 2nd yr)

**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 (e.g. 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 16/11/2026.