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SUSTAINABLE ENVIRONMENTAL FUTURES, TESTAMUR MAJOR (T120)

Western Sydney University Major Code: T120

Previous code: MT3043.1

Available to students in other Western Sydney University programs? No

This testamur major is available as an elective major for Bachelor of Medical Science students only.

Managing our environment sustainably requires professionals who are trained in new technologies across multiple disciplines, including biological and physical sciences, risk assessment, policy and management. Understanding how life interacts with water, soil and the atmosphere empowers us to develop sustainable management solutions for our most pressing environmental challenges. You will learn how to apply fundamental scientific knowledge to evaluate and mitigate the impacts of human activities on natural and managed ecosystems, including the built environment. You will have access to world class ecological and environmental research facilities, and will engage in hands-on, field-based learning, taught by a team at the cutting edge of research in this field. As a graduate, you are prepared for a career in environmental management, consultancy and biological conservation. All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Location

•			Select two electives	
Campus	Mode	Advice	Credit Points	
Hawkesbury Campus		Dr Ryan McQuinn		
nawkesbury Campus		Di Nyan McQuinn	Total Credit Points	
		(r.mcquinn@westernsydn	ey.edu.au)	

Recommended Sequence

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Select the link for your program below to see details of the major

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Sustainable Environmental Futures requires the successful completion of 240 credit points as per the recommended sequence below.

Title	Credit Points
Scientific Literacy	10
Biodiversity	10
Introductory Chemistry	10
Management of Aquatic Environments	10
Credit Points	40
Cell Biology	10
Introduction to Environmental Science	10
owing:	10
	Scientific Literacy Biodiversity Introductory Chemistry Management of Aquatic Environments Credit Points Cell Biology Introduction to Environmental Science

ey.edu.au)	Total Credit Points	240
	Credit Points	40
Select two electives		20
EART 3006	Science of the Anthropocene	10
BIOS 3035	Sustainable Environments	10
Spring session		
	Credit Points	40
Select two electives		20
AGRI 3007	Water in the Landscape	10
NATS 3015	Field Project 1	10
Year 3 Autumn session		
Maran O	Credit Points	40
Select two electives		20
NATS 3045	Work Internship for Science Professionals	
NATS 3044	Complex Case Studies in Science	
Select one of the fol	lowing:	10
BIOS 2008	Ecology	10
Spring session	oreant i onno	40
	Credit Points	40
Select one elective	Climate Change Science	10
EART 2001	Assessment Climate Change Science	10
ENVL 2007	Environmental Monitoring and	10
NATS 2025	Natural Science Research Methods	10
Autumn session		
Year 2	Creat Points	40
Select one elective	Credit Points	40
MATH 1003 Select one elective	Biometry	10
MATH 1014	Mathematics 1A	
MATH 1026	Quantitative Thinking	
MATH 1026	Quantitativo Thinking	

Bachelor of Science (Pathway to Teaching Primary/ Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Sustainable Environmental Futures requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Sustainable Environmental Futures, given above.

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10
BIOS 1027	Management of Aquatic Environments	10
	Credit Points	40
Spring session		
BIOS 1012	Cell Biology	10
ENVL 1004	Introduction to Environmental Science	10
Select one of the follo	owing:	10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	

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Select one elective		10
	Credit Points	40
Year 2		
Autumn session		
NATS 2025	Natural Science Research Methods	10
ENVL 2007	Environmental Monitoring and Assessment	10
EART 2001	Climate Change Science	10
Select one elective		10
	Credit Points	40
Spring session		
BIOS 2008	Ecology	10
Select one of the foll	lowing:	10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
Select two electives		20
	Credit Points	40
Year 3		
Autumn session		
NATS 3015	Field Project 1	10
AGRI 3007	Water in the Landscape	10
Select two electives		20
	Credit Points	40
Spring session		
BIOS 3035	Sustainable Environments	10
EART 3006	Science of the Anthropocene	10
Select two electives		20
	Credit Points	40
	Total Credit Points	240

In addition, all students must complete a mandatory 40 credit point minor in Education Studies. Students must choose one of:

Education Studies – Primary Teaching, Minor (0296) (https:// hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/ education-studies--primary-teaching-minor/)

Or

Education Studies - Secondary Teaching, Minor (0267) (https:// hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/ education-studies-secondary-teaching-minor/)

Students must meet this requirement by choosing subjects from the selected Education Studies minor as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Sustainable Environmental Futures requires the successful completion of 240 credit points as per the recommended sequence below.

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10

Select one of the following: 10 MATH 1026 Quantitative Thinking 10 MATH 1014 Mathematics 1A 10 MATH 1003 Biometry 10 Select one elective 10 40 Year 2 Credit Points 40 Autumn session 10 10 EART 2007 Environmental Monitoring and Assessment 10 EART 2001 Climate Change Science 10 NATS 2025 Advanced Science Project A 10 NATS 2001 Advanced Science Project A 10 Spring session 10 10 Select one of the following: 10 10 NATS 3048 Ecology 10 Select one elective 10 10 NATS 3045 Work Internship for Science Professionals 10 Select one elective 10 10 Vear 3 Advanced Science Research Project C 10 AGRI 3007 Water in the Landscape 10 NATS 3043 Advanced Science Research Project C 10			
Spring session 10 BIOS 1012 Cell Biology 10 ENVL 1004 Introduction to Environmental Science 10 MATH 1026 Quantitative Thinking 10 MATH 1014 Mathematics 1A 10 MATH 1003 Biometry 10 Select one elective 10 10 Credit Points 40 Year 2 40 40 Autumn session 10 10 NATS 2025 Natural Science Research Methods 10 EART 2001 Climate Change Science 10 NATS 2001 Advanced Science Project A 10 Spring session 10 10 Select one of the following: 10 10 NATS 2002 Advanced Science Project B 10 Select one of the following: 10 10 NATS 3044 Complex Case Studies in Science 10 NATS 3045 Work Internship for Science Project B 10 Select one elective 10 10 AGRI 3007 <t< td=""><td>BIOS 1027</td><td>Management of Aquatic Environments</td><td>10</td></t<>	BIOS 1027	Management of Aquatic Environments	10
BIOS 1012 Cell Biology 10 ENVL 1004 Introduction to Environmental Science 10 Select one of the following: 10 MATH 1026 Quantitative Thinking 10 MATH 1014 Mathematics 1A 10 MATH 1003 Biometry 5 Select one elective 10 10 Credit Points 40 Year 2 Autumn session 10 NATS 2025 Natural Science Research Methods 10 ENVL 2007 Environmental Monitoring and Assessment 10 EART 2001 Climate Change Science 10 NATS 2001 Advanced Science Project A 10 Spring session Ecology 10 BIOS 2008 Ecology 10 NATS 3044 Complex Case Studies in Science 10 NATS 3045 Work Internship for Science Projects B 10 Select one elective 10 10 NATS 3015 Field Project 1 10 AGRI 3007 Water in the Landscape 10 Select one elective 10 10 Select one elective 10 10 AGRI 3007 Water in the Landscape 10 NATS 3043 Advanced Science R		Credit Points	40
ENVL 1004 Introduction to Environmental Science 10 Select one of the following: 10 MATH 1026 Quantitative Thinking 10 MATH 1014 Mathematics 1A 10 MATH 1003 Biometry 10 Select one elective 10 Credit Points 40 Year 2 Autumn session 10 ENVL 2007 Environmental Monitoring and 10 Assessment 10 EART 2001 Climate Change Science 10 NATS 2021 Advanced Science Project A 10 Credit Points 40 Spring session 10 NATS 2002 Advanced Science Project B 10 Select one of the following: 10 NATS 2002 Advanced Science Project B 10 Select one of the following: 10 NATS 3044 Complex Case Studies in Science 10 NATS 3045 Work Internship for Science Professionals Select one elective 10 Credit Points 40 Year 3 Autumn session 10 NATS 3045 Field Project 1 10 AGRI 3007 Water in the Landscape 10 NATS 3043 Advanced Science Research Project C 10 Select one elective 10 Credit Points 40 Year 3 Autumn session 10 NATS 3043 Advanced Science Research Project C 10 Select one elective 10 Credit Points 10 AGRI 3007 Water in the Landscape 10 NATS 3043 Advanced Science Research Project C 10 Select one elective 10 Credit Points 40 Spring session 10 NATS 3043 Advanced Science Research Project C 10 Select one elective 10 Credit Points 40 Spring session 10 NATS 3043 Advanced Science Research Project C 10 Select one elective 10 Credit Points 40 Spring session 10 NATS 3043 Advanced Science Research Project C 10 Select one elective 10 Credit Points 40 Spring session 10 NATS 3043 Advanced Science Research Project C 10 Select one elective 10 Credit Points 10 Credit Points 10 Select one elective 10 Select one elective 10 Select one elective 10 Select one elective 10 Select one ele	Spring session		
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NATS 3043 Advanced Science Research Project C 10 Select one elective 10 Credit Points 40	BIOS 3035	Sustainable Environments	10
Select one elective 10 Credit Points 40	EART 3006	Science of the Anthropocene	10
Credit Points 40	NATS 3043	Advanced Science Research Project C	10
	Select one elective		10
Total Credit Points 240		Credit Points	40
		Total Credit Points	240

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Course	Title	Credit Points	
Year 1			
Year 1: College Subj	ects		
Standard 3-term year			
Preparatory subject			
CHEM 0001	Chemistry (WSTC Prep)	10	
Eight university-level subjects as follows:			
BIOS 1014	Cell Biology (WSTC)	10	
CHEM 1006	Essential Chemistry 2 (WSTC)	10	

NATS 1020	Scientific Literacy (WSTC)	10
CHEM 1009	Introductory Chemistry (WSTC)	10
BIOS 1003	Biodiversity (WSTC)	10
MATH 1027	Quantitative Thinking (WSTC)	10
BIOS 1034	Management of Aquatic Environments	10
	(WSTC)	
	llowing (depending on the testamur major	
chosen)		10
PROC 1003	Food Science 1 (WSTC)	10
BIOS 1023	Introduction to Human Biology (WSTC)	10
NATS 1021	Concepts in Human Physiology (WSTC)	10
ENVL 1003	Environmental Issues and Solutions (WSTC)	10
AGEN 1002	Water Quality Assessment and Management (WSTC)	10
NATS 1002	Concepts in Human Anatomy (WSTC)	10
	Credit Points	140
Year 2		
Autumn session		
NATS 2025	Natural Science Research Methods	10
ENVL 2007	Environmental Monitoring and	10
	Assessment	
EART 2001	Climate Change Science	10
Select one elective		10
	Credit Points	40
Spring session		
BIOS 2008	Ecology	10
ENVL 1004	Introduction to Environmental Science	10
Select one of the foll	owing:	10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
Select one elective		10
	Credit Points	40
Year 3		
Autumn session		
NATS 3015	Field Project 1	10
AGRI 3007	Water in the Landscape	10
Select two electives		20
	Credit Points	40
Spring session		
BIOS 3035	Sustainable Environments	10
EART 3006	Science of the Anthropocene	10
Select two electives		20
	Credit Points	40
	Total Credit Points	300

Related Programs

Bachelor of Advanced Science (3757) (https:// hbook.westernsydney.edu.au/archives/2022-2023/programs/bacheloradvanced-science/)

Bachelor of Medical Science (3755) (https://

hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelormedical-science/)

Bachelor of Science (3754) (https://hbook.westernsydney.edu.au/ archives/2022-2023/programs/bachelor-science/) 3

Bachelor of Science (Pathway to Teaching Primary/Secondary) (3756) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/ bachelor-science-pathway-teaching-primary-secondary/)

Bachelor of Science/Bachelor of Arts (3763) (https://

hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelorscience-bachelor-arts/)

Bachelor of Science/Bachelor of Business (4748) (https:// hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelorscience-bachelor-business/)

Bachelor of Science/Bachelor of International Studies (3764) (https:// hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelorscience-bachelor-international-studies/)

Bachelor of Science/Bachelor of Laws (2743) (https://

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Diploma in Science/Bachelor of Medical Science (6042) (https:// hbook.westernsydney.edu.au/archives/2022-2023/programs/diplomascience-bachelor-medical-science/)

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