TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2020

Changes have been made to the Bachelor of Environmental Science & Management/Bachelor of Business program from 2020 onwards. These changes only affect students who start the program in 2020 onwards. Information including the changes to the overall structure of the program, and changes for each major, can be found in the following pages.

Frequently Asked Questions

Does this change what I need to enrol in?

No, as you started the program prior to 2020 you can continue to complete the pre-2020 program structure. This does not change what you need to enrol in to graduate.

Can I choose to follow the updated program and enrol in the new courses?

This will depend on what courses you have completed so far. You can use the 2020 Program Plan to map your completed courses against the new structure then mail your Program Advisor at ProgramAdvice@newcastle.edu.au if you need further advice.

Will this delay my graduation?

No. As the changes do not affect what you need to enrol in to graduate, these changes will not delay your graduation.

Information correct as of September 2019 and subject to change.

TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2020

From 2020, the **Program Structure** has changed as follows:

Pre-2020 Bachelor of Environmental Science & Management/B Business Program Structure		2020 Bachelor of Envir Science & Managemer Program Structure		Details of Change	
Core Courses	160 units	Core Courses	160 units	Removal of PHYS2300 from Core Course List, addition of ENVS1002 to Core Course list.	
Directed Course: 10 unit MATH/PHYS	10 unit	Directed Courses: 10 unit MATH course plus 10 unit Program Directed ENVS3008 or GEOS3250	20 units	Addition of a 10 unit program directed course. Students will choose ENVS3008 or GEOS3250.	
Major – Environmental Science & Management	80-90 units	Major	80 units	All majors in the new program are 80 units only. There have been changes to compulsory and directed courses within each major, see pages 5 to 7. Two of the Majors have changed name as indicated in the table at the bottom of page 4.	
Major - Business	60-70 units	Major – Business	50-60 units	Note: Students will only require 50-60 units to complete the Business Majors as ENVS3002 will count as both a Core Course for B Environmental Science & Mngt and a Directed Course for the Business Major. All Business Majors are 60 units apart from the Marketing and the Leadership and Management Majors which will be 50 units.	
Electives	10-0 units	Electives	10-0 units	Students completing the Marketing Major of the Leadership and Management Major will complete 10 units of electives	
Total 3	20 units	Total 320 ເ	ınits		

TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2020

From 2020, the Environmental Science & Management Core Courses have changed as follows:

Pre-2020 Bachelor of Environmental Science & Management Program Structure – Core Courses	2020 Bachelor of Environmental Science & Management Program Structure – Core Courses	Equivalencies
Core Courses (100 units)	Core Courses (100 units)	Course equivalents
BIOL1002 Organisms to Ecosystems	BIOL1002 Organisms to Ecosystems	No change
ENVS1001 Environmental Science Concepts and Methods	ENVS1001 Environmental Science Concepts and Methods	No change
	ENVS1002 Physical and Chemical Environmental Systems	Students in the pre-2020 program do not have to complete ENVS1002
ENVS1003 Environmental Values and Ethics	ENVS1003 Environmental Values and Ethics	No change
SCIE1002 Multidisciplinary Laboratories	SCIE1002 Multidisciplinary Laboratories	No change
STAT1070 Statistics for the Sciences	STAT1070 Statistics for the Sciences	No change
ENVS2002 Environmental Legislation & Planning	ENVS2002 Environmental Legislation & Planning	No change
GEOS2161 Spatial Science	GEOS2161 Spatial Science	No change
PHYS2300 Energy and the Environment		Students in the pre-2020 program will still complete PHYS2300.
ENVS3001 Integrated Impact Assessment	ENVS3001 Integrated Impact Assessment	No change
ENVS3002 Environmental Management Perspectives	ENVS3002 Environmental Management Perspectives	No change

B Business Core Courses remain unchanged.

TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2020

From 2020, the **Directed Courses** have changed as follows:

Pre-2020 Bachelor of Environmental Science & Management Program Structure – Directed Courses	2020 Bachelor of Environmental Science & Management Program Structure – Directed Courses	Equivalencies
Math Directed (10 units) Choose 10 units from the following:	Math Directed (10 units) Choose 10 units from the following:	Course equivalents
MATH1001 Preparatory Studies in Mathematics	MATH1001 Preparatory Studies in Mathematics	No change
MATH1002 Foundational Studies in Mathematics	MATH1002 Foundational Studies in Mathematics	No change
MATH1110 Mathematics for Engineering, Science and Technology 1	MATH1110 Mathematics for Engineering, Science and Technology 1	No change
MATH1120 Mathematics for Engineering, Science and Technology 2	MATH1120 Mathematics for Engineering, Science and Technology 2	No change
MATH1210 Mathematical Discovery 1	MATH1210 Mathematical Discovery 1	No change
PHYS1150 Everyday Physics		If you have already completed PHYS1150 it will still count towards your program as a Math Directed course.
	Directed Course (10 units) Choose 10 units from the following:	Students in the pre-2020 program do not have to complete the program directed course
	ENVS3008 Organisational Placement in the Environmental Sector	
	GEOS3250 Advanced Spatial Science	

From 2020, the Majors have changed as follows:

Pre-2020 Bachelor of Environmental Science & Management Program Structure - Majors		2020 Bachelor of Environmental Science & Management Program Structure - Majors		
Major Title Units		Major Title	Units	
Earth Systems	80	Natural Resources and Hazards	80	
Ecosystems and Biodiversity	80	Ecosystems and Biodiversity	80	
Sustainability	90	Sustainability	80	
Marine Science	90	Coastal and Marine Science	80	

Information correct as of September 2019 and subject to change.

TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2020

EARTH SYSTEMS MAJOR

- + Courses removed from the major will still be on offer and will count towards the pre-2020 Earth Systems Major.
- ^ ENVS3008 will still count as a directed course towards the pre-2020 Earth Systems Major.

EARTH SYSTEMS MAJOR PRE-2020		NATURAL RESOURCES AND HAZARDS MAJOR 2020			
Directed Courses – Choose 20 units			Compulsory C	Courses – 50 units	
+CHEM1010	Introductory Chemistry I	10			
+CHEM1020	Introductory Chemistry II	10			
~GEOS1040	Earth's Dynamic Systems	10	~GEOS1040	Earth's Dynamic Systems	10
+GEOS1050	Earth Processes and Products	10		, ,	
			~GEOS2050	River Basin Processes	10
			~GEOS2060	Soil Properties and Processes	10
			~GEOS3250	Advanced Spatial Science	10
			~GEOS3340	Climate Change and Resource Management	10
Directed Cour	ses – Choose 30 units		Directed Cour	ses – Choose 10 units	
+CHEM2110	Analytical Chemistry	10			
+CHEM2610	Environmental Chemistry	10			
ENVS2009	Catchment and Water Resource Management	10	ENVS2009	Catchment and Water Resource Management	10
~GEOS2050	River Basin Processes	10		,	ı
~GEOS2060	Soil Properties and Processes	10			
GEOS2080	Earth Science Field Course	10	GEOS2080	Earth Science Field Course	10
CEOC2200	Earth's Sedimentary Rocks &	40	GEOS2200	Earth's Sedimentary Rocks &	40
GEOS2200	Environments	10		Environments	10
Directed Courses – Choose 40 units		Directed Cour	rses – Choose 20 units		
+CHEM3110	Instrumental Chemical Analysis	10			
+ECON3006	Environmental Economics	10			
+ENVS3004	Ecotoxicology	10			
ENVS3007	Environmental Remediation	10	ENVS3007	Environmental Remediation	10
^ENVS3008	Organisational Placement in the Environmental Sector	10			
ENVS3009	Advanced Water Science and Resource Management	10	ENVS3009	Advanced Water Science and Resource Management	10
		•	<envs3010< td=""><td>Extended Organisational Placement in the Environmental Sector</td><td>10</td></envs3010<>	Extended Organisational Placement in the Environmental Sector	10
ENVS3400	Advanced Research Project	10	ENVS3400	Advanced Research Project	10
GEOS3220	Coastal Environments and Processes	10	GEOS3220	Coastal Environments and Processes	10
~GEOS3250	Advanced Spatial Science	10			
GEOS3280	Global Change and the Rise of Modern Environments	10	GEOS3280	Global Change and the Rise of Modern Environments	10
~GEOS3340	Climate Change and Resource Management	10			
	*Total	90		*Total	80
+Course to be removed from Major			<new course<="" td=""><td>added</td><td></td></new>	added	
*Change to major unit total		~Change from	Directed to Compulsory major requireme	nt	
^Change to Pr	ogram Directed				

Information correct as of September 2019 and subject to change.

TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2020

ECOSYSTEMS AND BIODIVERSITY MAJOR

- + Courses removed from the major will still be on offer and will count towards the pre-2020 Ecosystems and Biodiversity Major.
- ^ ENVS3008 will still count as a directed course towards the pre-2020 Ecosystems and Biodiversity Major.

ECOSYSTEMS AND BIODIVERSITY MAJOR PRE-2020			ECOSYSTEMS AND BIODIVERSITY MAJOR 2020		
Directed Courses – Choose 10 units			Directed Courses – Choose 10 units		
BIOL1001	Molecules, Cells and Organisms	10	BIOL1001	Molecules, Cells and Organisms	10
+CHEM1010	Introductory Chemistry I	10			
CHEM1020	Introductory Chemistry II	10	CHEM1020	Introductory Chemistry II	10
GEOS1040	Earth's Dynamic Systems	10	GEOS1040	Earth's Dynamic Systems	10
Directed Cour	ses – Choose 30 units		Directed Cour	ses – Choose 30 units	
BIOL2090	Microbial Biology	10	BIOL2090	Microbial Biology	10
+CHEM2110	Analytical Chemistry	10			
+CHEM2610	Environmental Chemistry	10			
ENVS2004	Ecology	10	ENVS2004	Ecology	10
ENVS2005	Ecology and Management of Australian Flora	10	ENVS2005	Ecology and Management of Australian Flora	10
ENVS2006	Ecology and Management of Australian Fauna	10	ENVS2006	Ecology and Management of Australian Fauna	10
ENVS2009	Catchment and Water Resource Management	10	ENVS2009	Catchment and Water Resource Management	10
Directed Cour	ses – Choose 40 units		Directed Courses – Choose 40 units		
+BIOL3100	Microbiology	10			
+CHEM3110	Instrumental Chemical Analysis	10			
+ECON3006	Environmental Economics	10			
ENVS3003	Conservation Biology	10	ENVS3003	Conservation Biology	10
ENVS3004	Ecotoxicology	10	ENVS3004	Ecotoxicology	10
ENVS3005	Animal Behaviour	10	ENVS3005	Animal Behaviour	10
^ENVS3008	Organisational Placement in the Environmental Sector	10			
ENVS3009	Advanced Water Science and Resource Management	10	ENVS3009	Advanced Water Science and Resource Management	10
			<envs3010< td=""><td>Extended Organisational Placement in the Environmental Sector</td><td>10</td></envs3010<>	Extended Organisational Placement in the Environmental Sector	10
ENVS3400	Advanced Research Project	10	ENVS3400	Advanced Research Project	10
MARI3320	Ecological Methodology	10	MARI3320	Ecological Methodology	10
	Restoration Ecology	10	SRMT3060	Restoration Ecology	10
SRMT3060	0,				
SRMT3060	Total	80		Total	80
	· · · · · · · · · · · · · · · · · · ·	80	<new course<="" td=""><td></td><td>80</td></new>		80

Information correct as of September 2019 and subject to change.

TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2020

SUSTAINABILITY MAJOR

^ ENVS3008 will still count as a directed course towards the pre-2020 Sustainability Major.

SUSTAINABILITY MAJOR PRE-2020			SUSTAINABILITY MAJOR 2020			
Directed Courses – Choose 10 units			Directed Cour	ses – Choose 10 units		
BIOL1001	Molecules, Cells and Organisms	10	BIOL1001	Molecules, Cells and Organisms	10	
ENVS1004	Social Development & the Environment	10	ENVS1004	Social Development & the Environment	10	
GEOG1020	Introduction to Human Geography	10	GEOG1020	Introduction to Human Geography	10	
Directed Cour	rses – Choose 30 units		Directed Cour	Directed Courses – Choose 30 units		
ENVS2004	Ecology	10	ENVS2004	Ecology	10	
ENVS2005	Ecology and Management of Australian Flora	10	ENVS2005	Ecology and Management of Australian Flora	10	
ENVS2006	Ecology and Management of Australian Fauna	10	ENVS2006	Ecology and Management of Australian Fauna	10	
ENVS2008	The Sustainable Society	10	ENVS2008	The Sustainable Society	10	
ENVS2009	Catchment and Water Resource Management	10	ENVS2009	Catchment and Water Resource Management	10	
GEOG2080	Cities and Regions	10	GEOG2080	Cities and Regions	10	
GEOG2130	Geographies of Development	10	GEOG2130	Geographies of Development	10	
SOCS2400	Applied Social Research	10	SOCS2400	Applied Social Research	10	
Directed Cour	ses – Choose 40 units		Directed Courses – Choose 40 units			
ECON3006	Environmental Economics	10	ECON3006	Environmental Economics	10	
ENVS3003	Conservation Biology	10	ENVS3003	Conservation Biology	10	
ENVS3006	Sustainability: Theory and Practice	10	ENVS3006	Sustainability: Theory and Practice	10	
^ENVS3008	Organisational Placement in the Environmental Sector	10				
ENVS3009	Advanced Water Science & Resource Management	10	ENVS3009	Advanced Water Science & Resource Management	10	
			<envs3010< td=""><td>Extended Organisational Placement in the Environmental Sector</td><td>10</td></envs3010<>	Extended Organisational Placement in the Environmental Sector	10	
ENVS3400	Advanced Research Project	10	ENVS3400	Advanced Research Project	10	
GEOG3090	Society and Space	10	GEOG3090	Society and Space	10	
GEOG3240	Globalisation: Cities, Economies	10	GEOG3240	Globalisation: Cities, Economies	10	
GEOS3340	Climate Change and Resource Management	10	GEOS3340	Climate Change and Resource Management	10	
SRMT3040	Community Resource Management	10	SRMT3040	Community Resource Management	10	
SRMT3050	Sustainable Land Management	10	SRMT3050	Sustainable Land Management	10	
SRMT3060	Restoration Ecology	10	SRMT3060	Restoration Ecology	10	
	Total	80		Total	80	
^Change to Program Directed			<new course<="" td=""><td>added</td><td></td></new>	added		

Information correct as of September 2019 and subject to change.

Bachelor of Environmental Science & Management and Bachelor of Environmental Science & Management/Bachelor of Business MARINE SCIENCE MAJOR TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2020

MARINE SCIENCE MAJOR – updated December 2019

- # BIOL1001 will still be on offer and will count towards the pre-2020 Marine Science Major.
- # MARI3330 will no longer be offered, if you have completed MARI3330 it will still count as a directed course towards the pre-2020 Marine Science Major.
- > MARI2320 will no longer be offered. If you have not completed MARI2320 you will complete the replacement course MARI2500. Note: If you have completed MARI2320 and you would like to complete MARI2500 you can complete MARI2500 as long as you have elective room in your program. If you are unsure if you have elective room please email programadvice@newcastle.edu.au
- ^ ENVS3008 will still count as a directed course towards the pre-2020 Marine Science Major.

MARINE SCIENCE MAJOR PRE-2020		COASTAL AND MARINE SCIENCE MAJOR 2020			
Compulsory Courses		Compulsory C	ourses		
#BIOL1001	Molecules, Cells and Organisms	10			
MARI1000	Issues in the Marine Environment	10	MARI1000	Issues in the Marine Environment	10
ENVS2004	Ecology	10	ENVS2004	Ecology	10
MARI2300	Marine Biology	10	MARI2300	Marine Biology	10
#MARI2320	Marine Ecology	10	=MARI2500	Coastal & Marine Ecosystem Services	10
			~MARI3300	Integrated Coastal Ecosystems	10
			~MARI3320	Ecological Methodology	10
Directed Cours	ses – Choose 40 units.		Directed Cour	ses – Choose 20 units.	
ECON3006	Environmental Economics	10	ECON3006	Environmental Economics	10
ENVS3005	Animal Behaviour	10	ENVS3005	Animal Behaviour	10
^ENVS3008	Organisational Placement in the Environmental Sector	10			
ENVS3009	Advanced Water Science & Resource Management	10	ENVS3009	Advanced Water Science & Resource Management	10
			+ENVS3010	Extended Organisational Placement in the Environmental Sector	10
ENVS3400	Advanced Research Project	10	ENVS3400	Advanced Research Project	10
~MARI3300	Integrated Coastal Ecosystems	10			
~MARI3320	Ecological Methodology	10			
#MARI3330	Marine Fisheries Biology and Management	10			
MARI3410	Coral Reef Biology, Ecology and Sustainability	10	MARI3410	Coral Reef Biology, Ecology and Sustainability	10
	*Total 90			*Total	80
~Change from Directed to Compulsory major requirement		+New Course added			
*Change to ma	*Change to major unit total		#Course to be removed from Major		
^Change to Program Directed			=Replacement Course		

Information correct as of December 2019 and subject to change.