

Bachelor of Coastal and Marine Science

INFORMATION FOR STUDENTS WHO COMMENCED IN THE BACHELOR OF COASTAL AND MARINE SCIENCE [40210] PRIOR TO 2023

The University is incorporating Work Integrated Learning (WIL) into all undergraduate programs as a 10-unit Core Course (ENVS3008 – Work Integrated Learning in the Environmental and Development Sectors), for students commencing in the program from 2023 onwards. WIL provides students from all disciplines and backgrounds with the opportunity to gain real world work experience and improve employability outcomes. ENVS3008 has been revised to increase the placement hours from 80 to 140 hours for students commencing in the program from 2023 onwards.

Transition Arrangements

Pre-2023 students who have not successfully completed either ENVS3008 (current 80-hour iteration) or ENVS3500, will need to complete placement course **ENVS3008 – Work Integrated Learning in the Environmental and Development Sectors** (140-hour iteration), as part of their degree.

The table below provides a summary of the changes to the Bachelor of Coastal and Marine Science:

2022 Program Requirements	2023 Program Requirements	Notes
Core Courses (100 Units)	Core Courses (110 Units)	Increased by 10 units
MARI1000 – Our Oceans (10 units)	MARI1000 – Our Oceans (10 units)	No change
SCIE1002 – Multidisciplinary Laboratories (10 units)	SCIE1002 – Multidisciplinary Laboratories (10 units)	No change
ENVS2004 – Ecology (10 units)	ENVS2004 – Ecology (10 units)	No change
GEOS2161 – Spatial Science (10 units)	GEOS2161 – Spatial Science (10 units)	No change
MARI2300 – Marine Biology (10 units)	MARI2300 – Marine Biology (10 units)	No change
MARI2500 – Coastal and Marine Ecosystem Services (10 units)	MARI3500 – Fisheries and Aquaculture (10 units)	MARI2500 has been replaced by MARI3500.
SCIE2223 – Weather and Waves (10 units)	SCIE2223 – Weather and Waves (10 units)	No change
GEOS3220 – Coastal Environments and Processes (10 units)	GEOS3220 – Coastal Environments and Processes (10 units)	No change
MARI3300 – Integrated Coastal Ecosystems (10 units)	MARI3300 – Integrated Coastal Ecosystems (10 units)	No change

2022 Program Requirements	2023 Program Requirements	Notes
MARI3320 – Experimental Design and Analysis in Ecology (10 units)	ENVS2320 – Experimental Design and Analysis in Ecology (10 units)	MARI3320 has been replaced by ENVS2320.
	Work Integrated Learning Placement ENVS3008 – Work Integrated Learning in the Environmental and Development Sectors (10 units).	New core course Students who have not successfully completed either ENVS3008 (current 80-hour iteration) or ENVS3500 by the end of 2022 will need to complete ENVS3008. ENVS3008 placement hours have increased from 80 to 140 hours. This course has been moved from major directed course lists to core for students commencing in the program from 2023 onwards.
Mathematics Directed Courses (10 Units) Complete 10 units from the following directed courses. Which course you should complete will depend on your previous mathematical background, please refer to each course handbook for more information.	Mathematics Directed Courses (10 Units) Complete 10 units from the following directed courses. Which course you should complete will depend on your previous mathematical background, please refer to each course handbook for more information.	
MATH1001 – Preparatory Studies in Mathematics (10 units)	MATH1001 – Preparatory Studies in Mathematics (10 units)	No change
MATH1002 – Foundational Studies in Mathematics (10 units)	MATH1002 – Foundational Studies in Mathematics (10 units)	No change
MATH1110 – Mathematics for Engineering, Science and Technology 1 (10 units)	MATH1110 – Mathematics for Engineering, Science and Technology 1 (10 units)	No change
Statistics Directed Courses (10 Units) Complete 10 units from the following directed courses.	Statistics Directed Courses (10 Units) Complete 10 units from the following directed courses.	
STAT1020 – Statistical Reasoning and Literacy (10 units)	STAT1020 – Statistical Reasoning and Literacy (10 units)	No change
STAT1070 – Statistics for the Sciences (10 units)	STAT1070 – Statistics for the Sciences (10 units)	No change
Environmental Science Directed Courses (10 Units) Complete 10 units from the following directed courses.		3000 level program directed course list has been removed
ENVS3008 – Organisational Placement in the Environmental Sector (10 units)		Removed from program directed course list. This course has been revised and is now included in the core of the program.

2022 Program Requirements	2023 Program Requirements	Notes
ENVS3500 – Advanced Environmental Field Skills (10 units)		Removed from program directed course list.
Coastal and Marine Science Minors		
Animal Biology (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
BIOL1001 – Molecules, Cells and Organisms (10 units)	BIOL1001 – Molecules, Cells and Organisms (10 units)	No change
BIOL1002 – Organisms to Ecosystems (10 units)	BIOL1002 – Organisms to Ecosystems (10 units)	No change
BIOL2050 – Molecular Genetics (10 units)	BIOL2050 – Molecular Genetics (10 units)	No change
BIOL3020 – Animal Physiology, Reproduction and Development (10 units)	BIOL3020 – Animal Physiology, Reproduction and Development (10 units)	No change
Biodiversity and Conservation (40 Units)		
Compulsory Courses (30 Units) Complete the following compulsory courses.	Compulsory Courses (30 Units) Complete the following compulsory courses.	
BIOL1002 – Organisms to Ecosystems (10 units)	BIOL1002 – Organisms to Ecosystems (10 units)	No change
ENVS2005 – Management of Australian Flora (10 units)	ENVS2005 – Management of Australian Flora (10 units)	No change
ENVS2006 – Ecology and Management of Wildlife (10 units)	ENVS2006 – Ecology and Management of Wildlife (10 units)	No change
3000 Level Directed Courses (10 Units) Complete 10 units from the following directed courses.	3000 Level Directed Courses (10 Units) Complete 10 units from the following directed courses.	
ENVS3003 – Conservation Biology (10 units)	ENVS3003 – Conservation Biology (10 units)	No change
ENVS3005 – Animal Behaviour (10 units)	ENVS3005 – Animal Behaviour (10 units)	No change
Cell and Molecular Biology (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	

2022 Program Requirements	2023 Program Requirements	Notes
BIOL1001 – Molecules, Cells and Organisms (10 units)	BIOL1001 – Molecules, Cells and Organisms (10 units)	No change
BIOL1002 – Organisms to Ecosystems (10 units)	BIOL1002 – Organisms to Ecosystems (10 units)	No change
BIOL2050 – Molecular Genetics (10 units)	BIOL2050 – Molecular Genetics (10 units)	No change
BIOL3090 – Molecular Biology (10 units)	BIOL3090 – Molecular Biology (10 units)	No change
Chemistry (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
CHEM1010 – Introductory Chemistry I (10 units)	CHEM1010 – Introductory Chemistry I (10 units)	No change
CHEM1020 – Introductory Chemistry II (10 units)	CHEM1020 – Introductory Chemistry II (10 units)	No change
CHEM2110 – Applied Analytical Chemistry (10 units)	CHEM2110 – Applied Analytical Chemistry (10 units)	No change
CHEM2310 – Organic Chemistry (10 units)	CHEM2310 – Organic Chemistry (10 units)	No change
Coastal and Surface Processes (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
GEOS1050 – Earth Processes and Products (10 units)	GEOS1050 – Earth Processes and Products (10 units)	No change
GEOS2050 – Catchments and Climate (10 units)	GEOS2050 – Catchments and Climate (10 units)	No change
GEOS3220 – Coastal Environments and Processes (10 units)	GEOS3220 – Coastal Environments and Processes (10 units)	No change
GEOS3250 – Advanced Spatial Science (10 units)	GEOS3250 – Advanced Spatial Science (10 units)	No change

2022 Program Requirements	2023 Program Requirements	Notes
Communication (40 Units)		
1000 Level Directed Courses (20 Units) Complete 20 units from the following directed courses.	1000 Level Directed Courses (20 Units) Complete 20 units from the following directed courses.	
CMNS1000 – Digital and Social Media (10 units)	CMNS1000 – Digital and Social Media (10 units)	No change
CMNS1090 – Media Storytelling (10 units)	CMNS1090 – Foundations of Professional Writing (10 units)	Course name changed.
CMNS1234 – Media and Communication Concepts (10 units)	CMNS1234 – Media and Communication Concepts (10 units)	No change
CMNS1240 – Mobile Media Making (10 units)	CMNS1240 – Commercial Social Media Production (10 units)	Course name changed.
2000 Level Directed Courses (20 Units) Complete 20 units from the following directed courses.	2000 Level Directed Courses (20 Units) Complete 20 units from the following directed courses.	
CMNS2016 – Social and Interactive Media (10 units)	CMNS2016 – Interactive Storytelling (10 units)	Course name changed.
CMNS2280 – Feature Writing (10 units)	CMNS2280 – Feature Writing (10 units)	No change
CMNS2700 – Communication Research and Data Analytics (10 units)	CMNS2700 – Create Your Own Business (10 units)	Course name changed.
Education Studies (40 Units)		
Directed Courses (40 Units) Complete 40 units from the following directed courses. Note that EDUC3157 is a 20-unit course.	Directed Courses (40 Units) Complete 40 units from the following directed courses. Note that EDUC3157 is a 20-unit course.	
EDST2090 – Teaching Scientific Literacy (10 units)	EDST2090 – Teaching Scientific Literacy (10 units)	No change
EDUC2102 – Educational Psychology: Learners and the Learning Process (10 units)	EDUC2102 – Educational Psychology: Learners and the Learning Process (10 units)	No change
EDUC2200 – The Future of Teaching and Learning (10 units)	EDUC2200 – The Future of Teaching and Learning (10 units)	No change
EDUC3157 – History, Nature and Practice of Science (20 units)	EDUC3157 – History, Nature and Practice of Science (20 units)	No change

2022 Program Requirements	2023 Program Requirements	Notes
Environmental Regulation (40 Units)		
Compulsory Courses (30 Units) Complete the following compulsory courses.	Compulsory Courses (30 Units) Complete the following compulsory courses.	
LEGL1001 – Foundations of Law (10 units)	LEGL1001 – Foundations of Law (10 units)	No change
ENVS2002 – Environmental Legislation and Planning (10 units)	ENVS2002 – Environmental Legislation and Planning (10 units)	No change
LEGL2002 – Law of Business Organisations (10 units)	LEGL2002 – Law of Business Organisations (10 units)	No change
Directed Courses (10 Units) Complete 10 units from the following directed courses.	Directed Courses (10 Units) Complete 10 units from the following directed courses.	
ERARS6001 – Site Assessment and Planning (10 units)	ERARS6001 – Site Assessment and Planning (10 units)	No change
ERARS6006 – Ecological Risk Assessment (10 units)	ERARS6006 – Ecological Risk Assessment (10 units)	No change
LAWS6037 – International Environment Law and Policy (10 units)	LAWS6037 – International Environment Law and Policy (10 units)	No change
LAWS6038 – Law and Economics of Climate Change (10 units)	LAWS6038 – Law and Economics of Climate Change (10 units)	No change
LEGL6004 – Law for Workplace Health and Safety (10 units)	LEGL6004 – Law for Workplace Health and Safety (10 units)	No change
LEGL6005 – Co-operative Law and Governance (10 units)	LEGL6005 – Co-operative Law and Governance (10 units)	No change
Geography (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
GEOG1020 – Introduction to Human Geography (10 units)	GEOG1020 – Introduction to Human Geography (10 units)	No change
GEOS1040 – Earth: The Dynamic Planet (10 units)	GEOS1040 – Earth: The Dynamic Planet (10 units)	No change
GEOS2161 – Spatial Science (10 units)	GEOS2161 – Spatial Science (10 units)	No change

2022 Program Requirements	2023 Program Requirements	Notes
GEOS3250 – Advanced Spatial Science (10 units)	GEOS3250 – Advanced Spatial Science (10 units)	No change
Indigenous Environmental and Community Practice (40 Units)		
Compulsory Courses (20 Units) Complete the following compulsory courses.	Compulsory Courses (20 Units) Complete the following compulsory courses.	
ABOR1110 – Introduction to Aboriginal Studies (10 units)	ABOR1110 – Introduction to Aboriginal Studies (10 units)	No change
ABOR2243 – Indigenous People, Global Warming and the Environment (10 units)	ABOR2243 – Indigenous People, Global Warming and the Environment (10 units)	No change
Directed Courses (20 Units) Complete 20 units from the following directed courses.	Directed Courses (20 Units) Complete 20 units from the following directed courses.	
ABOR1370 – Working with Aboriginal Communities (10 units)	ABOR1370 – Working with Aboriginal Communities (10 units)	No change
ABOR2244 – Reconciling Australia’s Colonial Past and Present (10 units)	ABOR2244 – Reconciling Australia’s Colonial Past and Present (10 units)	No change
ABOR2330 – Traditional Aboriginal Society (10 units)	ABOR2330 – Traditional Aboriginal Society (10 units)	No change
Microbiology (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
BIOL1001 – Molecules, Cells and Organisms (10 units)	BIOL1001 – Molecules, Cells and Organisms (10 units)	No change
BIOL1002 – Organisms to Ecosystems (10 units)	BIOL1002 – Organisms to Ecosystems (10 units)	No change
BIOL2090 – Microbial Biology (10 units)	BIOL2090 – Microbial Biology (10 units)	No change
BIOL3100 – Microbiology (10 units)	BIOL3100 – Microbiology (10 units)	No change
Plant Biology (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
BIOL1001 – Molecules, Cells and Organisms (10 units)	BIOL1001 – Molecules, Cells and Organisms (10 units)	No change

2022 Program Requirements	2023 Program Requirements	Notes
BIOL1002 – Organisms to Ecosystems (10 units)	BIOL1002 – Organisms to Ecosystems (10 units)	No change
BIOL2050 – Molecular Genetics (10 units)	BIOL2050 – Molecular Genetics (10 units)	No change
BIOL2220 – Plant Adaptation to Climate Change (10 units)	BIOL2220 – Plant Adaptation to Climate Change (10 units)	No change
Social Science (40 Units)		
Compulsory Courses (10 Units) Complete the following compulsory courses.	Compulsory Courses (10 Units) Complete the following compulsory courses.	
SOCS1100 – Professional Practice and Key Debates in Social Sciences (10 units)	SOCS1100 – Professional Practice and Key Debates in Social Sciences (10 units)	No change
Directed Courses (30 Units) Complete 30 units from the following directed courses.	Directed Courses (30 Units) Complete 30 units from the following directed courses.	
SOCS2100 – Organisational Management and Social Behaviour (10 units)	SOCS2100 – Organisational Management and Social Behaviour (10 units)	No change
SOCS2300 – Ethical Debates in the Social Sciences (10 units)	SOCS2300 – Ethical Debates in the Social Sciences (10 units)	No change
SOCS2400 – Applied Social Research (10 units)	SOCS2400 – Applied Social Research (10 units)	No change
SOCS3100 – Policy Development, Program Management and Evaluation (10 units)	SOCS3100 – Policy Development, Program Management and Evaluation (10 units)	No change
Tourism and Event Management (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
LEIS1000 – Leisure Behaviour and Organisation (10 units)	LEIS1000 – Leisure Behaviour and Organisation (10 units)	No change
LEIS2001 – Event Operations Management (10 units)	LEIS2001 – Event Operations Management (10 units)	No change
LEIS3003 – Event Strategy & Leadership (10 units)	LEIS3003 – Event Strategy & Leadership (10 units)	No change
TOUR3003 – Destination Management and Marketing (10 units)	TOUR3003 – Destination Management and Marketing (10 units)	No change

2022 Program Requirements	2023 Program Requirements	Notes
Water and Resource Management (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
ENVS1001 – Environmental Science Concepts and Methods (10 units)	ENVS1001 – Environmental Science Concepts and Methods (10 units)	No change
ENVS1003 – Environmental Values and Ethics (10 units)	ENVS1003 – Environmental Values and Ethics (10 units)	No change
ENVS2009 – Catchment and Water Resource Management (10 units)	ENVS2009 – Catchment and Water Resource Management (10 units)	No change
ENVS3009 – Advanced Water Science and Resource Management (10 units)	ENVS3009 – Advanced Water Science and Resource Management (10 units)	No change
Environmental Science (40 Units)		
Compulsory Courses (10 Units) Complete the following compulsory courses.	Compulsory Courses (10 Units) Complete the following compulsory courses.	
ENVS1001 – Environmental Science Concepts and Methods (10 units)	ENVS1001 – Environmental Science Concepts and Methods (10 units)	No change
1000 Level Directed Courses (10 Units) Complete 10 units from the following directed courses.	1000 Level Directed Courses (10 Units) Complete 10 units from the following directed courses.	
ENVS1002 – Physical and Chemical Environmental Systems (10 units)	ENVS1002 – Physical and Chemical Environmental Systems (10 units)	No change
ENVS1003 – Environmental Values and Ethics (10 units)	ENVS1003 – Environmental Values and Ethics (10 units)	No change
2000 Level Directed Courses (20 Units) Complete 20 units from the following directed courses.	2000 Level Directed Courses (20 Units) Complete 20 units from the following directed courses.	
ENVS2002 – Environmental Legislation and Planning (10 units)	ENVS2002 – Environmental Legislation and Planning (10 units)	No change
ENVS2005 – Management of Australian Flora (10 units)	ENVS2005 – Management of Australian Flora (10 units)	No change
ENVS2006 – Ecology and Management of Wildlife (10 units)	ENVS2006 – Ecology and Management of Wildlife (10 units)	No change
ENVS2009 – Catchment and Water Resource Management (10 units)	ENVS2009 – Catchment and Water Resource Management (10 units)	No change

2022 Program Requirements	2023 Program Requirements	Notes
Environmental Toxicology and Health (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
BIOL1002 – Organisms to Ecosystems (10 units)	BIOL1002 – Organisms to Ecosystems (10 units)	No change
ENVS3004 – Ecotoxicology (10 units)	ENVS3004 – Ecotoxicology (10 units)	No change
ENVS3005 – Animal Behaviour (10 units)	ENVS3005 – Animal Behaviour (10 units)	No change
ENVS6525 – Sustainability and Ecosystem Health (10 units)	ENVS6525 – Sustainability and Ecosystem Health (10 units)	No change
Food Science (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
FSHN1010 – Introduction to Food Science and Technology (10 units)	FSHN1010 – Introduction to Food Science and Technology (10 units)	No change
FSHN1020 – Introduction to Nutrition Science and Applications (10 units)	FSHN1020 – Introduction to Nutrition Science and Applications (10 units)	No change
FSHN2040 – Animal Food Products (10 units)	FSHN2040 – Animal Food Products (10 units)	No change
FSHN2050 – Plant Food Products (10 units)	FSHN2050 – Plant Food Products (10 units)	No change
Public and Community Health (40 Units)		
Compulsory Courses (40 Units) Complete the following compulsory courses.	Compulsory Courses (40 Units) Complete the following compulsory courses.	
PCHE1000 – Introduction to Population Health Challenges (10 units)	PCHE1000 – Introduction to Population Health Challenges (10 units)	No change
PUBH1080 – Studies in Population Health and Health Promotion (10 units)	PUBH1080 – Studies in Population Health and Health Promotion (10 units)	No change
PUBH2060 – Strategies for Health Behaviour Change in the Community (10 units)	PUBH2060 – Strategies for Health Behaviour Change in the Community (10 units)	No change
PCHE3300 – Advanced Public Health (10 units)	PCHE3300 – Advanced Public Health (10 units)	No change

Information is correct as of March 2023 and subject to change.
Program Code: 40210

CRICOS Code: 0100479

CRICOS Provider: 00109J

2022 Program Requirements	2023 Program Requirements	Notes
Riparian Restoration and Sustainability (40 Units)		
Compulsory Courses (10 Units) Complete the following compulsory courses.	Compulsory Courses (10 Units) Complete the following compulsory courses.	
BIOL1002 – Organisms to Ecosystems (10 units)	BIOL1002 – Organisms to Ecosystems (10 units)	No change
Directed Courses (30 Units) Complete 30 units from the following directed courses.	Directed Courses (30 Units) Complete 30 units from the following directed courses.	
ENVS2002 – Environmental Legislation and Planning (10 units)	ENVS2002 – Environmental Legislation and Planning (10 units)	No change
ENVS2005 – Management of Australian Flora (10 units)	ENVS2005 – Management of Australian Flora (10 units)	No change
ENVS2009 – Catchment and Water Resource Management (10 units)	ENVS2009 – Catchment and Water Resource Management (10 units)	No change
ENVS3002 – Environmental Management Perspectives (10 units)	ENVS3002 – Environmental Management Perspectives (10 units)	No change
SRMT3060 – Restoration Ecology (10 units)	SRMT3060 – Restoration Ecology (10 units)	No change
Sustainability (40 Units)		
Compulsory Courses (20 Units) Complete the following compulsory courses.	Compulsory Courses (20 Units) Complete the following compulsory courses.	
ENVS1004 – Social Development and the Environment (10 units)	ENVS1004 – Social Development and the Environment (10 units)	No change
GEOG1020 – Introduction to Human Geography (10 units)	GEOG1020 – Introduction to Human Geography (10 units)	No change
Directed Courses (20 Units) Complete 20 units from the following directed courses.	Directed Courses (20 Units) Complete 20 units from the following directed courses.	
ENVS2008 – The Sustainable Society (10 units)	ENVS2008 – The Sustainable Society (10 units)	No change
GEOG2080 – Cities and Regions (10 units)	GEOG2080 – Cities and Regions (10 units)	No change
GEOG2130 – Geographies of Development (10 units)	GEOG2130 – Geographies of Development (10 units)	No change

2022 Program Requirements	2023 Program Requirements	Notes
<p>Electives (70 Units) Complete 70 units of electives to fulfil the requirements of this program. Electives can be used to extend and complement your core studies with more courses in the same field of study, or from areas that might be of interest to you. Electives can be chosen from all courses available at the University that do not have any other conditions (such as a course requisite) applied to them.</p>	<p>Electives (70 Units) Complete 70 units of electives to fulfil the requirements of this program. Electives can be used to extend and complement your core studies with more courses in the same field of study, or from areas that might be of interest to you. Electives can be chosen from all courses available at the University that do not have any other conditions (such as a course requisite) applied to them.</p>	<p>No change</p>

If you have any questions regarding your remaining program, please email ProgramAdvice@newcastle.edu.au.