

PROGRAM PLAN

BACHELOR OF SCIENCE/ BACHELOR OF LAW (HONOURS)

PROGRAM OPTION:

Full time

START DATE:

Semester 1, 2021

LOCATION:

Newcastle

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Academic Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)

 [COURSE HANDBOOK](#)

NAME:

STUDENT NO.:

COURSE STATUS KEY

C = Completed

En = Enrolled

NS = Not Started

YEAR 1	SEMESTER 1	SCIE1001 Professional Scientific Thinking CORE	SCIE1002 Multidisciplinary Laboratories CORE	LAWS1010 Legal System and Method I CORE	LAWS1020 Torts I CORE	SEMESTER 2	MAJOR 1000 level MAJOR	DIRECTED MATH 1000 level DIRECTED	LAWS1011 Legal System and Method II CORE	LAWS1021 Torts II CORE
	SEMESTER 1	SCIE2001 Professional Employment Skills CORE	LAWS4001 Constitutional Law CORE	MAJOR 1000 level MAJOR	MAJOR 2000 level MAJOR	SEMESTER 2	SCIE2002 Interdisciplinary Challenges CORE	LAWS2030 Criminal Law and Procedure CORE	STAT1070 Statistics for the Sciences CORE	MAJOR 2000 level MAJOR
YEAR 3	SEMESTER 1	LAWS3040 Contracts I CORE	SCIE3001A Transdisciplinary Capstone: Planning and Implementing CORE	MAJOR 3000 level MAJOR	MAJOR 3000 level MAJOR	SEMESTER 2	LAWS3041 Contracts II CORE	SCIE3001B Transdisciplinary Capstone: Implementing and Communicating CORE	MAJOR 3000 level MAJOR	MAJOR MAJOR
	SEMESTER 1	LAWS4003 Civil Procedure CORE	LAWS4007 Professional Conduct CORE	DIRECTED 6000 level DIRECTED	DIRECTED 6000 level DIRECTED	SEMESTER 2	LAWS4002 Administrative Law CORE	LAWS4011 Property CORE	DIRECTED 6000 level DIRECTED	DIRECTED 6000 level DIRECTED
YEAR 5	SEMESTER 1	LAWS4004 Evidence CORE	LAWS4010 Equity and Trust CORE	DIRECTED 6000 level DIRECTED	DIRECTED 6000 level DIRECTED	SEMESTER 2	LAWS4012 Public International Law CORE	LAWS4005 Company Law CORE	DIRECTED 6000 level DIRECTED	DIRECTED 6000 level DIRECTED

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To be eligible to graduate make sure you have completed 400 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 230 units.
- Science Major – 80 units.
- Directed courses – 90 units. Refer to the Bachelor of Science [Program Handbook](#) for the list of 1000 level Directed MATH courses and refer to the Bachelor of Science/Bachelor of Laws (Honours) Program Handbook for the list of 5000 level directed courses.
- To find out which 1000 Directed MATH courses you should enroll into, please see [Enrolling in Maths](#).
- The duration of this program is 5 years full time study (40 units per semester).
- The maximum time to complete this program is 10 years.
- **Some 5000 Level LAWS Directed courses have been replaced with 6000 Level LAWS Directed courses in 2021, all previous 5000 and 6000 Level LAWS Directed courses completed prior to 2021 will count towards this program.**
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Some courses have assumed knowledge and/or requisites, please refer to the individual [Course Handbook](#). Please refer to the [Program Handbook](#) for specific information on program structure. If you are intending varying from this program plan please seek advice from your [Academic Program Advisor](#).

PROGRAM PLAN

BACHELOR OF SCIENCE/ BACHELOR OF LAW (HONOURS)

BIODIVERSITY AND CONSERVATION MAJOR

COMPULSORY COURSES

Complete the following compulsory courses:

ENVS1001: Environmental Science Concepts & Methods
ENVS1003: Environmental Values and Ethics
ENVS3003: Conservation Biology
ENVS3004: Ecotoxicology
ENVS3005: Animal Behaviour

DIRECTED COURSES – 2000 LEVEL

Complete 20 units from:

ENVS2004: Ecology
ENVS2005: Management of Australian Flora
ENVS2006: Ecology and Management of Wildlife

DIRECTED COURSES – 3000 LEVEL

Complete 10 units from:

ENVS3009: Advanced Water Science and Resource Management
MARI3320: Ecological Methodology
SRMT3060: Restoration Ecology
SCIE3500 Research Integrated Learning

BIOLOGICAL SCIENCES MAJOR

COMPULSORY COURSES

Complete the following compulsory courses:

BIOL1001: Molecules, Cells and Organisms
BIOL1002: Organisms to Ecosystems
BIOL2001: Molecular Lab Skills for Biological Sciences
BIOL2002: Lab Skills in Biological Systems
BIOL3001: Advanced Lab Skills in Biological Sciences

Directed Pathways – choose one of the following pathways

MICROBIOLOGY

Complete the following compulsory courses:

BIOL2090: Microbial Biology
BIOL3090: Molecular Biology
BIOL3100: Microbiology

ANIMAL AND PLANT BIOLOGY

Complete the following compulsory courses:

BIOL2220: Plant Cell Development
BIOL3020: Animal Physiology, Reproduction and Development
BIOL3090: Molecular Biology

CHEMISTRY (ADVANCED MATERIALS) MAJOR

COMPULSORY COURSES

Complete the following compulsory courses:

CHEM1010: Introductory Chemistry I
CHEM1020: Introductory Chemistry II
CHEM2110: Analytical Chemistry
CHEM2210: Inorganic Chemistry
CHEM2410: Physical Chemistry
CHEM3110: Instrumental Chemical Analysis

DIRECTED COURSES

Complete 20 units from:

CHEM3210: Metal Complexation, Structure and Reactivity
CHEM3410: Energy and Structure
CHEM3580: Polymers and Colloids

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CHEMISTRY (MEDICINAL AND ORGANIC) MAJOR

COMPULSORY COURSES

Complete the following compulsory courses:

CHEM1010: Introductory Chemistry I
CHEM1020: Introductory Chemistry II
CHEM2110: Analytical Chemistry
CHEM2310: Organic Chemistry
CHEM2410: Physical Chemistry
CHEM3110: Instrumental Chemical Analysis

DIRECTED COURSES

Complete 20 units from:

CHEM3210: Metal Complexation, Structure and Reactivity
CHEM3310: Molecular Organic Synthesis
CHEM3550: Medicinal and Biological Chemistry

EARTH SCIENCES MAJOR

COMPULSORY COURSES

Complete the following compulsory courses:

GEOS1040: Earth's Dynamic Systems
GEOS1050: Earth Processes and Products
GEOS2080: Earth Science Field Course
GEOS2161: Spatial Science
GEOS3250: Advanced Spatial Science

DIRECTED COURSES – 2000 LEVEL

Complete 10 units from:

GEOS2050: River Basin Processes
GEOS2060: Soil Properties and Processes
ENVS2009: Catchment and Water Resource Management
SCIE2223: Weather and Waves

DIRECTED COURSES – 3000 LEVEL

Complete 20 units from:

ECON3006: Environmental Economics
ENVS3007: Environmental Remediation
ENVS3009: Advanced Water Science and Resource Management
GEOS3220: Coastal Environments and Processes
GEOS3280: Global Change and the Rise of Modern Environments
GEOS3340: Climate Change and Resource Management

GEOGRAPHY MAJOR

COMPULSORY COURSES

Complete the following compulsory courses:

GEOG1020: Introduction to Human Geography
GEOS1040: Earth's Dynamic Systems
GEOS2161: Spatial Science
GEOS3250: Advanced Spatial Science

DIRECTED COURSES – 2000 LEVEL

Complete 10 units from:

ENVS2002: Environmental Legislation & Planning
ENVS2008: The Sustainable Society
GEOG2080: Cities and Regions
GEOG2130: Geographies of Development
GEOS2050: River Basin Processes
GEOS2080: Earth Science Field Course
SOCS2400: Applied Social Research

DIRECTED COURSES – 3000 LEVEL

Complete 30 units from:

ENVS3001: Integrated Impact Assessment
ENVS3006: Sustainability: Theory and Practice
ENVS3007: Environmental Remediation
ENVS3008: Organisational Placement
GEOG3090: Society and Space
GEOG3300: Rethinking Development
GEOS3220: Coastal Environments and Processes
GEOS3280: Global Change and the Rise of Modern Environments
GEOS3340: Climate Change and Resource Management
ENVS3008: Organisational Placement
SCIE3500: Research and Work Integrated learning

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MATHEMATICS MAJOR

Students must complete MATH1110 as their Math Directed course

COMPULSORY COURSES

Complete the following compulsory courses:

MATH1120: Mathematics for Engineering, Science and Technology 2
MATH2242: Complex Analysis
MATH2310: Calculus of Science and Engineering
MATH2340: Linearity and Continuity
MATH2800: Ordinary Differential Equations

DIRECTED COURSES – 3000 LEVEL

Complete 30 units from:

MATH3205: Fourier Analysis
MATH3120: Algebra
MATH3700: Partial Differential Equations and Modelling
MATH3820: Numerical Methods
SCIE3500: Research Integrated Learning
STAT3800: Deterministic and Stochastic Optimisation

PSYCHOLOGY MAJOR

COMPULSORY COURSES

Complete the following compulsory courses:

PSYC1010: Psychology Introduction 1
PSYC1020: Psychology Introduction 2
PSYC2300: Cognitive Psychology
PSYC2400: Biological Psychology
PSYC3000: Advanced Research Methods and Stats in Psych
PSYC3800: Special Topics

DIRECTED COURSES – 3000 LEVEL

Complete 20 units from:

PSYC3001: Advanced Psychological Measurement
PSYC3301: Advanced Perception and Learning in Psychology
ENVS3005: Animal Behaviour

STATISTICS MAJOR

Students must complete MATH1110 as their Math Directed course

COMPULSORY COURSES

Complete the following compulsory courses:

MATH1120: Mathematics for Engineering, Science and Technology 2
STAT1300: Fundamentals of Statistics
STAT2000: Applied Statistics and Research Methods
STAT3030: Generalised Linear Models
STAT3040: Time Series Analysis
STAT3100: Systems Thinking for an Integrated Workforce
STAT3800: Deterministic and Stochastic Optimisation

DIRECTED COURSES – 2000 LEVEL

Complete 10 units from:

STAT2020: Predictive Analytics
STAT2300: Statistical Inference